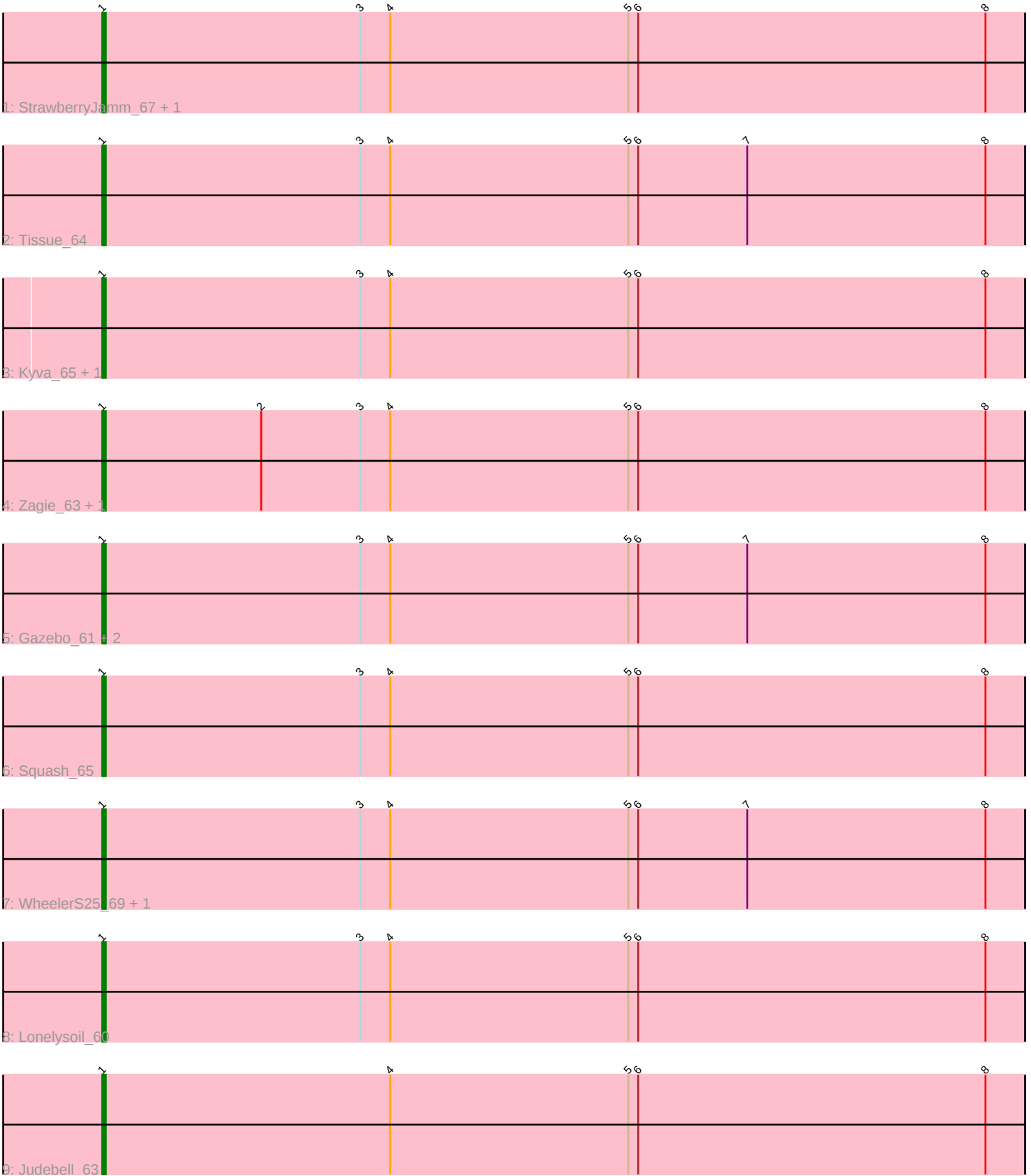




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280997 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280997 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : StrawberryJamm\_67, Namago\_63
- Track 2 : Tissue\_64
- Track 3 : Kyva\_65, Grassboy\_65
- Track 4 : Zagie\_63, SallyK\_64
- Track 5 : Gazebo\_61, Hyperion\_62, Mashley\_62
- Track 6 : Squash\_65
- Track 7 : WheelerS25\_69, Blab\_60
- Track 8 : Lonelysoil\_60
- Track 9 : Judebell\_63

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

The start number called the most often in the published annotations is 1, it was called in 14 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Blab\_60, Gazebo\_61, Grassboy\_65, Hyperion\_62, Judebell\_63, Kyva\_65, Lonelysoil\_60, Mashley\_62, Namago\_63, SallyK\_64, Squash\_65, StrawberryJamm\_67, Tissue\_64, WheelerS25\_69, Zagie\_63,

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

- 

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

- 

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

Start 1:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 14 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blab\_60 (EG), Gazebo\_61 (EG), Grassboy\_65 (EG), Hyperion\_62 (EG), Judebell\_63 (EG), Kyva\_65 (EG),

Lonelysoil\_60 (EG), Mashley\_62 (EG), Namago\_63 (EG), SallyK\_64 (EG), Squash\_65 (EG), StrawberryJamm\_67 (EG), Tissue\_64 (EG), WheelerS25\_69 (EG), Zagie\_63 (EG),

### **Summary by clusters:**

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 1 was manually annotated 14 times for cluster EG.

### **Gene Information:**

Gene: Blab\_60 Start: 44407, Stop: 44129, Start Num: 1

Candidate Starts for Blab\_60:

(Start: 1 @44407 has 14 MA's), (3, 44329), (4, 44320), (5, 44248), (6, 44245), (7, 44212), (8, 44140),

Gene: Gazebo\_61 Start: 44466, Stop: 44188, Start Num: 1

Candidate Starts for Gazebo\_61:

(Start: 1 @44466 has 14 MA's), (3, 44388), (4, 44379), (5, 44307), (6, 44304), (7, 44271), (8, 44199),

Gene: Grassboy\_65 Start: 44977, Stop: 44699, Start Num: 1

Candidate Starts for Grassboy\_65:

(Start: 1 @44977 has 14 MA's), (3, 44899), (4, 44890), (5, 44818), (6, 44815), (8, 44710),

Gene: Hyperion\_62 Start: 44640, Stop: 44362, Start Num: 1

Candidate Starts for Hyperion\_62:

(Start: 1 @44640 has 14 MA's), (3, 44562), (4, 44553), (5, 44481), (6, 44478), (7, 44445), (8, 44373),

Gene: Judebell\_63 Start: 44282, Stop: 44004, Start Num: 1

Candidate Starts for Judebell\_63:

(Start: 1 @44282 has 14 MA's), (4, 44195), (5, 44123), (6, 44120), (8, 44015),

Gene: Kyva\_65 Start: 45000, Stop: 44722, Start Num: 1

Candidate Starts for Kyva\_65:

(Start: 1 @45000 has 14 MA's), (3, 44922), (4, 44913), (5, 44841), (6, 44838), (8, 44733),

Gene: Lonelysoil\_60 Start: 43765, Stop: 43487, Start Num: 1

Candidate Starts for Lonelysoil\_60:

(Start: 1 @43765 has 14 MA's), (3, 43687), (4, 43678), (5, 43606), (6, 43603), (8, 43498),

Gene: Mashley\_62 Start: 44453, Stop: 44175, Start Num: 1

Candidate Starts for Mashley\_62:

(Start: 1 @44453 has 14 MA's), (3, 44375), (4, 44366), (5, 44294), (6, 44291), (7, 44258), (8, 44186),

Gene: Namago\_63 Start: 43907, Stop: 43629, Start Num: 1

Candidate Starts for Namago\_63:

(Start: 1 @43907 has 14 MA's), (3, 43829), (4, 43820), (5, 43748), (6, 43745), (8, 43640),

Gene: SallyK\_64 Start: 45160, Stop: 44882, Start Num: 1

Candidate Starts for SallyK\_64:

(Start: 1 @45160 has 14 MA's), (2, 45112), (3, 45082), (4, 45073), (5, 45001), (6, 44998), (8, 44893),

Gene: Squash\_65 Start: 45151, Stop: 44873, Start Num: 1

Candidate Starts for Squash\_65:

(Start: 1 @45151 has 14 MA's), (3, 45073), (4, 45064), (5, 44992), (6, 44989), (8, 44884),

Gene: StrawberryJamm\_67 Start: 44204, Stop: 43926, Start Num: 1

Candidate Starts for StrawberryJamm\_67:

(Start: 1 @44204 has 14 MA's), (3, 44126), (4, 44117), (5, 44045), (6, 44042), (8, 43937),

Gene: Tissue\_64 Start: 44849, Stop: 44571, Start Num: 1

Candidate Starts for Tissue\_64:

(Start: 1 @44849 has 14 MA's), (3, 44771), (4, 44762), (5, 44690), (6, 44687), (7, 44654), (8, 44582),

Gene: WheelerS25\_69 Start: 45743, Stop: 45465, Start Num: 1

Candidate Starts for WheelerS25\_69:

(Start: 1 @45743 has 14 MA's), (3, 45665), (4, 45656), (5, 45584), (6, 45581), (7, 45548), (8, 45476),

Gene: Zagie\_63 Start: 44436, Stop: 44158, Start Num: 1

Candidate Starts for Zagie\_63:

(Start: 1 @44436 has 14 MA's), (2, 44388), (3, 44358), (4, 44349), (5, 44277), (6, 44274), (8, 44169),