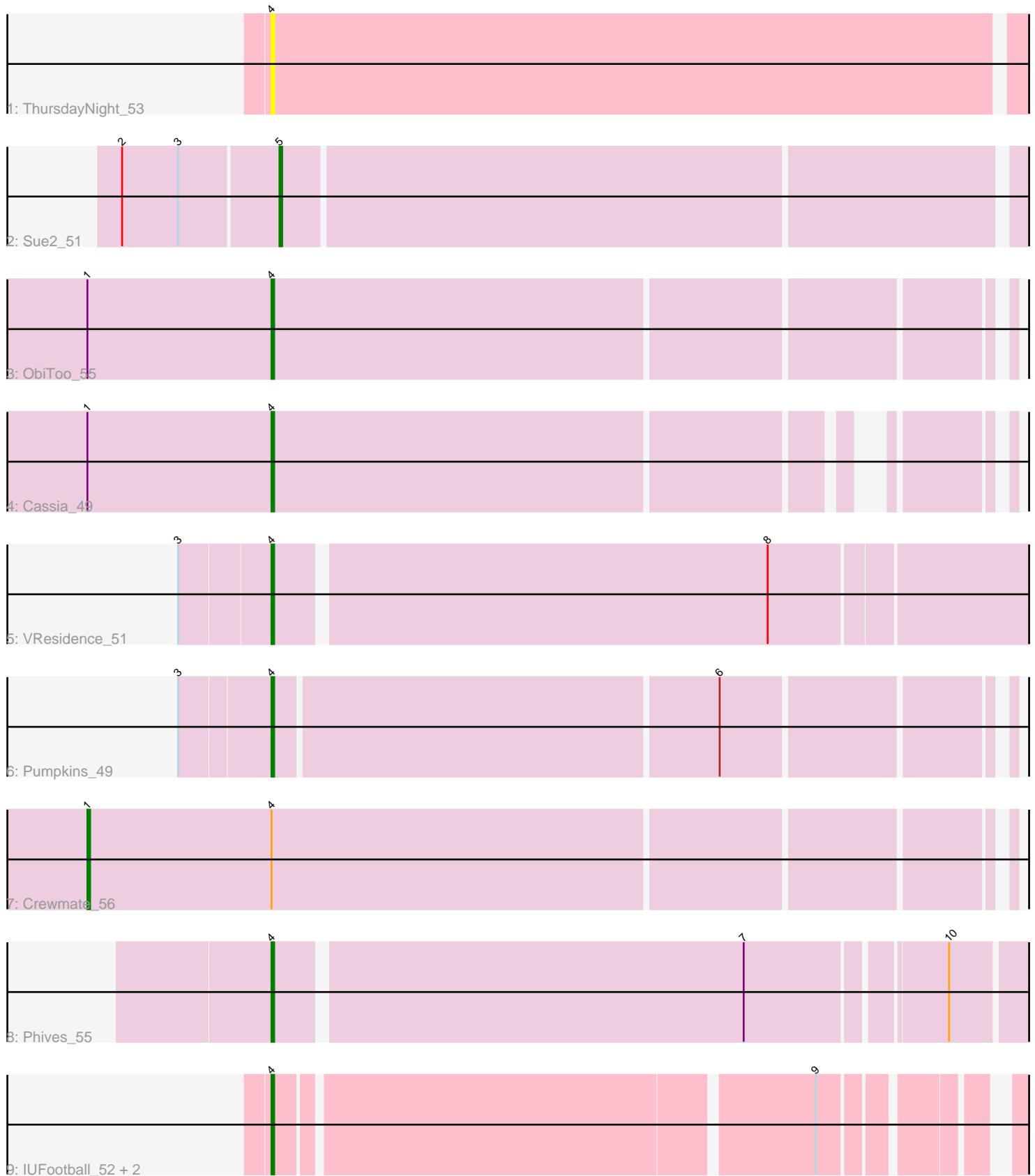


Pham 278812



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 278812 Report

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

Pham number 278812 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ThursdayNight\_53
- Track 2 : Sue2\_51
- Track 3 : ObiToo\_55
- Track 4 : Cassia\_49
- Track 5 : VResidence\_51
- Track 6 : Pumpkins\_49
- Track 7 : Crewmate\_56
- Track 8 : Phives\_55
- Track 9 : IUFootball\_52, Maureen\_52, Liebe\_52

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

The start number called the most often in the published annotations is 4, it was called in 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cassia\_49, IUFootball\_52, Liebe\_52, Maureen\_52, ObiToo\_55, Phives\_55, Pumpkins\_49, ThursdayNight\_53, VResidence\_51,

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

- Crewmate\_56,

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

- Sue2\_51,

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

Start 1:

- Found in 3 of 11 ( 27.3% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Crewmate\_56 (AZ1),

Start 4:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Cassia\_49 (AZ1), IUFootball\_52 (AZ2), Liebe\_52 (AZ2), Maureen\_52 (AZ2), ObiToo\_55 (AZ1), Phives\_55 (AZ1), Pumpkins\_49 (AZ1), ThursdayNight\_53 (AZ), VResidence\_51 (AZ1),

Start 5:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sue2\_51 (AZ1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AZ1, AZ2, AZ,

Info for manual annotations of cluster AZ1:

- Start number 1 was manually annotated 1 time for cluster AZ1.
- Start number 4 was manually annotated 5 times for cluster AZ1.
- Start number 5 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 4 was manually annotated 2 times for cluster AZ2.

### **Gene Information:**

Gene: Cassia\_49 Start: 36777, Stop: 37070, Start Num: 4

Candidate Starts for Cassia\_49:

(Start: 1 @36708 has 1 MA's), (Start: 4 @36777 has 7 MA's),

Gene: Crewmate\_56 Start: 38454, Stop: 38834, Start Num: 1

Candidate Starts for Crewmate\_56:

(Start: 1 @38454 has 1 MA's), (Start: 4 @38523 has 7 MA's),

Gene: IUFootball\_52 Start: 39105, Stop: 39404, Start Num: 4

Candidate Starts for IUFootball\_52:

(Start: 4 @39105 has 7 MA's), (9, 39297),

Gene: Liebe\_52 Start: 39105, Stop: 39404, Start Num: 4

Candidate Starts for Liebe\_52:

(Start: 4 @39105 has 7 MA's), (9, 39297),

Gene: Maureen\_52 Start: 39104, Stop: 39403, Start Num: 4

Candidate Starts for Maureen\_52:

(Start: 4 @39104 has 7 MA's), (9, 39296),

Gene: ObiToo\_55 Start: 37917, Stop: 38228, Start Num: 4

Candidate Starts for ObiToo\_55:

(Start: 1 @37848 has 1 MA's), (Start: 4 @37917 has 7 MA's),

Gene: Phives\_55 Start: 39196, Stop: 39561, Start Num: 4

Candidate Starts for Phives\_55:

(Start: 4 @39196 has 7 MA's), (7, 39367), (10, 39436),

Gene: Pumpkins\_49 Start: 37435, Stop: 37743, Start Num: 4

Candidate Starts for Pumpkins\_49:

(3, 37402), (Start: 4 @37435 has 7 MA's), (6, 37597),

Gene: Sue2\_51 Start: 36740, Stop: 37063, Start Num: 5

Candidate Starts for Sue2\_51:

(2, 36683), (3, 36704), (Start: 5 @36740 has 1 MA's),

Gene: ThursdayNight\_53 Start: 38169, Stop: 38507, Start Num: 4

Candidate Starts for ThursdayNight\_53:

(Start: 4 @38169 has 7 MA's),

Gene: VResidence\_51 Start: 36422, Stop: 36793, Start Num: 4

Candidate Starts for VResidence\_51:

(3, 36389), (Start: 4 @36422 has 7 MA's), (8, 36602),