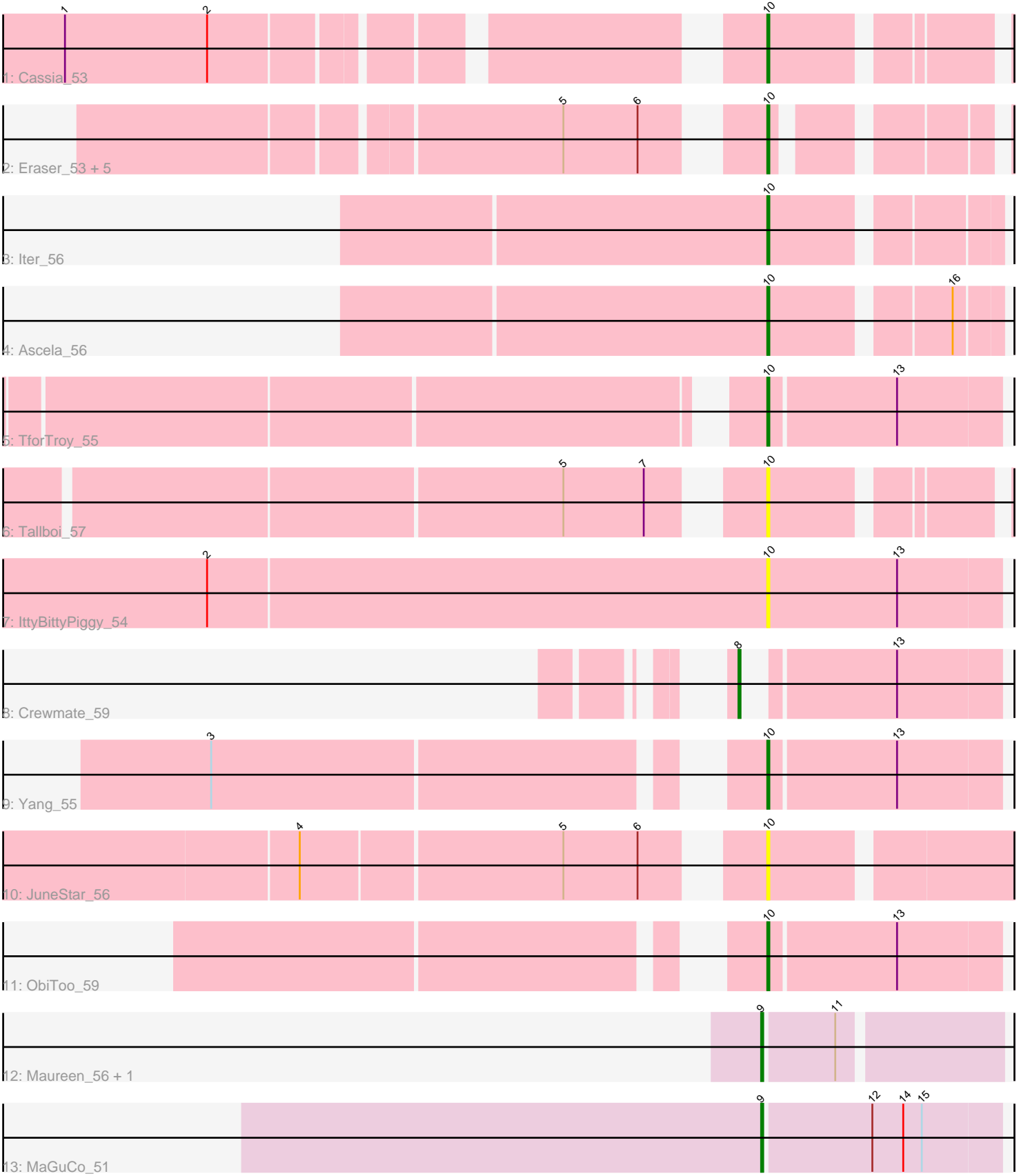


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 4936 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4936 has 19 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Cassia\_53
- Track 2 : Eraser\_53, Asa16\_53, Niobe\_53, London\_53, Jstan\_55, Elezi\_53
- Track 3 : Iter\_56
- Track 4 : Ascela\_56
- Track 5 : TforTroy\_55
- Track 6 : Tallboi\_57
- Track 7 : IttyBittyPiggy\_54
- Track 8 : Crewmate\_59
- Track 9 : Yang\_55
- Track 10 : JuneStar\_56
- Track 11 : ObiToo\_59
- Track 12 : Maureen\_56, Liebe\_56
- Track 13 : MaGuCo\_51

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

The start number called the most often in the published annotations is 10, it was called in 11 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asa16\_53, Ascela\_56, Cassia\_53, Elezi\_53, Eraser\_53, Iter\_56, IttyBittyPiggy\_54, Jstan\_55, JuneStar\_56, London\_53, Niobe\_53, ObiToo\_59, Tallboi\_57, TforTroy\_55, Yang\_55,

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

- 

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

- Crewmate\_59, Liebe\_56, MaGuCo\_51, Maureen\_56,

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

Start 8:

- Found in 1 of 19 ( 5.3% ) of genes in pham

- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Crewmate\_59 (AZ1),

Start 9:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Liebe\_56 (AZ2), MaGuCo\_51 (AZ2), Maureen\_56 (AZ2),

Start 10:

- Found in 15 of 19 ( 78.9% ) of genes in pham
- Manual Annotations of this start: 11 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asa16\_53 (AZ1), Ascela\_56 (AZ1), Cassia\_53 (AZ1), Elezi\_53 (AZ1), Eraser\_53 (AZ1), Iter\_56 (AZ1), IttyBittyPiggy\_54 (AZ1), Jstan\_55 (AZ1), JuneStar\_56 (AZ1), London\_53 (AZ1), Niobe\_53 (AZ1), ObiToo\_59 (AZ1), Tallboi\_57 (AZ1), TforTroy\_55 (AZ1), Yang\_55 (AZ1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AZ1, AZ2,

Info for manual annotations of cluster AZ1:

- Start number 8 was manually annotated 1 time for cluster AZ1.
- Start number 10 was manually annotated 11 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 9 was manually annotated 3 times for cluster AZ2.

### **Gene Information:**

Gene: Asa16\_53 Start: 38695, Stop: 38874, Start Num: 10

Candidate Starts for Asa16\_53:

(5, 38617), (6, 38653), (Start: 10 @38695 has 11 MA's),

Gene: Ascela\_56 Start: 38575, Stop: 38769, Start Num: 10

Candidate Starts for Ascela\_56:

(Start: 10 @38575 has 11 MA's), (16, 38653),

Gene: Cassia\_53 Start: 37871, Stop: 38062, Start Num: 10

Candidate Starts for Cassia\_53:

(1, 37577), (2, 37646), (Start: 10 @37871 has 11 MA's),

Gene: Crewmate\_59 Start: 39468, Stop: 39725, Start Num: 8

Candidate Starts for Crewmate\_59:

(Start: 8 @39468 has 1 MA's), (13, 39528),

Gene: Elezi\_53 Start: 38693, Stop: 38872, Start Num: 10

Candidate Starts for Elezi\_53:

(5, 38615), (6, 38651), (Start: 10 @38693 has 11 MA's),

Gene: Eraser\_53 Start: 38702, Stop: 38881, Start Num: 10

Candidate Starts for Eraser\_53:

(5, 38624), (6, 38660), (Start: 10 @38702 has 11 MA's),

Gene: Iter\_56 Start: 38567, Stop: 38761, Start Num: 10

Candidate Starts for Iter\_56:

(Start: 10 @38567 has 11 MA's),

Gene: IttyBittyPiggy\_54 Start: 37513, Stop: 37716, Start Num: 10

Candidate Starts for IttyBittyPiggy\_54:

(2, 37243), (Start: 10 @37513 has 11 MA's), (13, 37576),

Gene: Jstan\_55 Start: 38697, Stop: 38876, Start Num: 10

Candidate Starts for Jstan\_55:

(5, 38619), (6, 38655), (Start: 10 @38697 has 11 MA's),

Gene: JuneStar\_56 Start: 40771, Stop: 40977, Start Num: 10

Candidate Starts for JuneStar\_56:

(4, 40570), (5, 40693), (6, 40729), (Start: 10 @40771 has 11 MA's),

Gene: Liebe\_56 Start: 40742, Stop: 40942, Start Num: 9

Candidate Starts for Liebe\_56:

(Start: 9 @40742 has 3 MA's), (11, 40775),

Gene: London\_53 Start: 38693, Stop: 38872, Start Num: 10

Candidate Starts for London\_53:

(5, 38615), (6, 38651), (Start: 10 @38693 has 11 MA's),

Gene: MaGuCo\_51 Start: 39212, Stop: 39412, Start Num: 9

Candidate Starts for MaGuCo\_51:

(Start: 9 @39212 has 3 MA's), (12, 39263), (14, 39278), (15, 39287),

Gene: Maureen\_56 Start: 40741, Stop: 40941, Start Num: 9

Candidate Starts for Maureen\_56:

(Start: 9 @40741 has 3 MA's), (11, 40774),

Gene: Niobe\_53 Start: 38696, Stop: 38875, Start Num: 10

Candidate Starts for Niobe\_53:

(5, 38618), (6, 38654), (Start: 10 @38696 has 11 MA's),

Gene: ObiToo\_59 Start: 39065, Stop: 39322, Start Num: 10

Candidate Starts for ObiToo\_59:

(Start: 10 @39065 has 11 MA's), (13, 39125),

Gene: Tallboi\_57 Start: 39063, Stop: 39254, Start Num: 10

Candidate Starts for Tallboi\_57:

(5, 38985), (7, 39024), (Start: 10 @39063 has 11 MA's),

Gene: TforTroy\_55 Start: 38428, Stop: 38631, Start Num: 10

Candidate Starts for TforTroy\_55:

(Start: 10 @38428 has 11 MA's), (13, 38488),

Gene: Yang\_55 Start: 38407, Stop: 38610, Start Num: 10  
Candidate Starts for Yang\_55:  
(3, 38173), (Start: 10 @38407 has 11 MA's), (13, 38467),