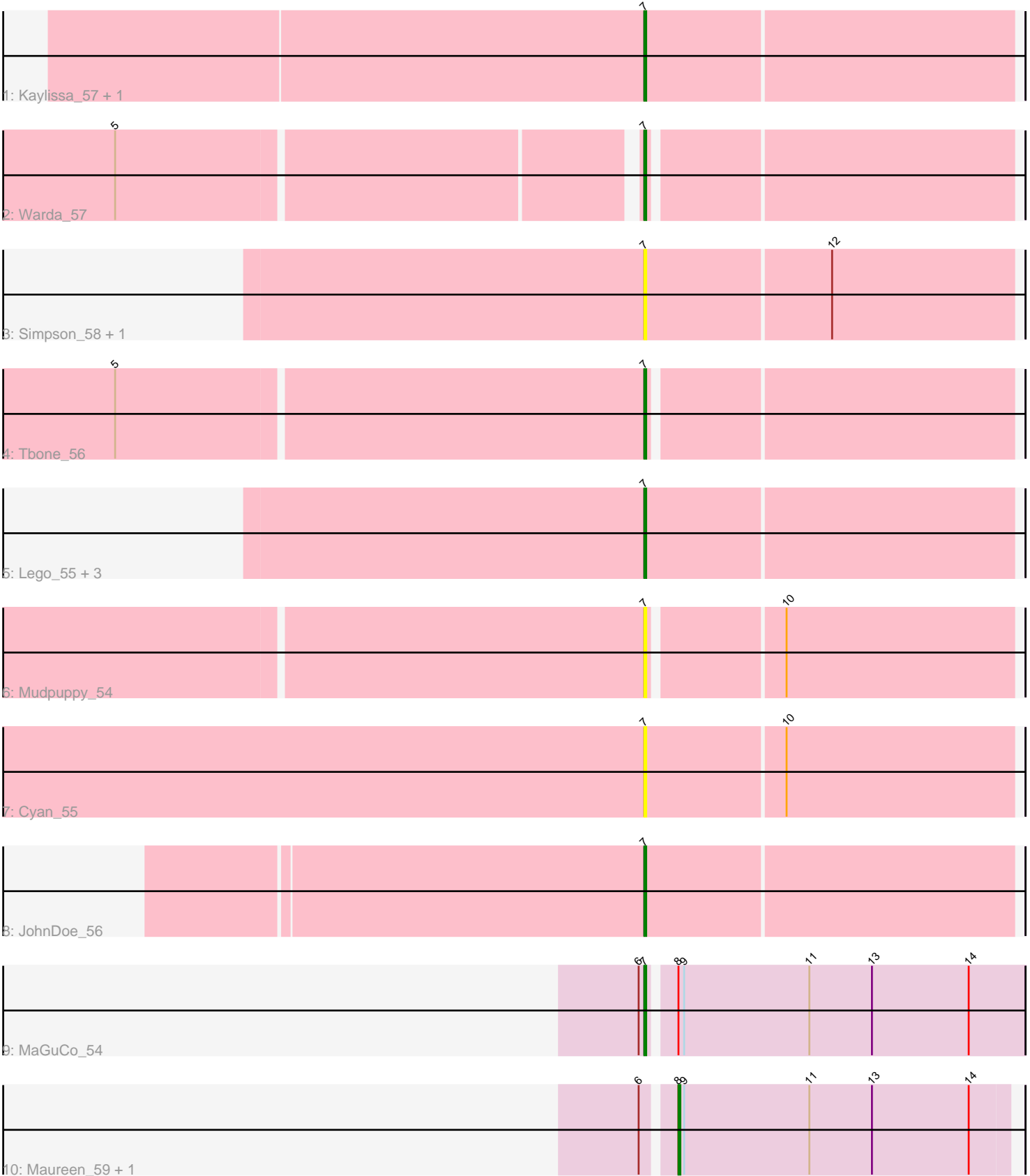


Zoomed Pham 5849



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 5849 Report

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

Pham number 5849 has 16 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Kaylissa\_57, Tutumahutu\_57
- Track 2 : Warda\_57
- Track 3 : Simpson\_58, Joemato\_58
- Track 4 : Tbone\_56
- Track 5 : Lego\_55, YesChef\_56, Powerpuff\_58, AGrandiflora\_58
- Track 6 : Mudpuppy\_54
- Track 7 : Cyan\_55
- Track 8 : JohnDoe\_56
- Track 9 : MaGuCo\_54
- Track 10 : Maureen\_59, Liebe\_59

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

The start number called the most often in the published annotations is 7, it was called in 8 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AGrandiflora\_58, Cyan\_55, Joemato\_58, JohnDoe\_56, Kaylissa\_57, Lego\_55, MaGuCo\_54, Mudpuppy\_54, Powerpuff\_58, Simpson\_58, Tbone\_56, Tutumahutu\_57, Warda\_57, YesChef\_56,

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

- 

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

- Liebe\_59, Maureen\_59,

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

Start 7:

- Found in 14 of 16 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 8 of 10
- Called 100.0% of time when present

- Phage (with cluster) where this start called: AGrandiflora\_58 (AZ1), Cyan\_55 (AZ1), Joemato\_58 (AZ1), JohnDoe\_56 (AZ1), Kaylissa\_57 (AZ1), Lego\_55 (AZ1), MaGuCo\_54 (AZ2), Mudpuppy\_54 (AZ1), Powerpuff\_58 (AZ1), Simpson\_58 (AZ1), Tbone\_56 (AZ1), Tutumahutu\_57 (AZ1), Warda\_57 (AZ1), YesChef\_56 (AZ1),

Start 8:

- Found in 3 of 16 ( 18.8% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Liebe\_59 (AZ2), Maureen\_59 (AZ2),

### **Summary by clusters:**

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

Info for manual annotations of cluster AZ1:

- Start number 7 was manually annotated 7 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 7 was manually annotated 1 time for cluster AZ2.
- Start number 8 was manually annotated 2 times for cluster AZ2.

### **Gene Information:**

Gene: AGrandiflora\_58 Start: 38960, Stop: 39151, Start Num: 7

Candidate Starts for AGrandiflora\_58:

(Start: 7 @38960 has 8 MA's),

Gene: Cyan\_55 Start: 38501, Stop: 38692, Start Num: 7

Candidate Starts for Cyan\_55:

(1, 37727), (2, 37775), (4, 38018), (Start: 7 @38501 has 8 MA's), (10, 38573),

Gene: Joemato\_58 Start: 38582, Stop: 38773, Start Num: 7

Candidate Starts for Joemato\_58:

(Start: 7 @38582 has 8 MA's), (12, 38678),

Gene: JohnDoe\_56 Start: 38562, Stop: 38753, Start Num: 7

Candidate Starts for JohnDoe\_56:

(Start: 7 @38562 has 8 MA's),

Gene: Kaylissa\_57 Start: 38960, Stop: 39151, Start Num: 7

Candidate Starts for Kaylissa\_57:

(Start: 7 @38960 has 8 MA's),

Gene: Lego\_55 Start: 38279, Stop: 38470, Start Num: 7

Candidate Starts for Lego\_55:

(Start: 7 @38279 has 8 MA's),

Gene: Liebe\_59 Start: 41675, Stop: 41848, Start Num: 8

Candidate Starts for Liebe\_59:

(6, 41660), (Start: 8 @41675 has 2 MA's), (9, 41678), (11, 41744), (13, 41777), (14, 41828),

Gene: MaGuCo\_54 Start: 40133, Stop: 40327, Start Num: 7

Candidate Starts for MaGuCo\_54:

(6, 40130), (Start: 7 @40133 has 8 MA's), (Start: 8 @40145 has 2 MA's), (9, 40148), (11, 40214), (13, 40247), (14, 40298),

Gene: Maureen\_59 Start: 41674, Stop: 41847, Start Num: 8

Candidate Starts for Maureen\_59:

(6, 41659), (Start: 8 @41674 has 2 MA's), (9, 41677), (11, 41743), (13, 41776), (14, 41827),

Gene: Mudpuppy\_54 Start: 38436, Stop: 38621, Start Num: 7

Candidate Starts for Mudpuppy\_54:

(Start: 7 @38436 has 8 MA's), (10, 38502),

Gene: Powerpuff\_58 Start: 39683, Stop: 39874, Start Num: 7

Candidate Starts for Powerpuff\_58:

(Start: 7 @39683 has 8 MA's),

Gene: Simpson\_58 Start: 38586, Stop: 38777, Start Num: 7

Candidate Starts for Simpson\_58:

(Start: 7 @38586 has 8 MA's), (12, 38682),

Gene: Tbone\_56 Start: 39128, Stop: 39313, Start Num: 7

Candidate Starts for Tbone\_56:

(3, 38621), (5, 38855), (Start: 7 @39128 has 8 MA's),

Gene: Tutumahutu\_57 Start: 38553, Stop: 38744, Start Num: 7

Candidate Starts for Tutumahutu\_57:

(Start: 7 @38553 has 8 MA's),

Gene: Warda\_57 Start: 38853, Stop: 39038, Start Num: 7

Candidate Starts for Warda\_57:

(3, 38358), (5, 38592), (Start: 7 @38853 has 8 MA's),

Gene: YesChef\_56 Start: 38542, Stop: 38733, Start Num: 7

Candidate Starts for YesChef\_56:

(Start: 7 @38542 has 8 MA's),