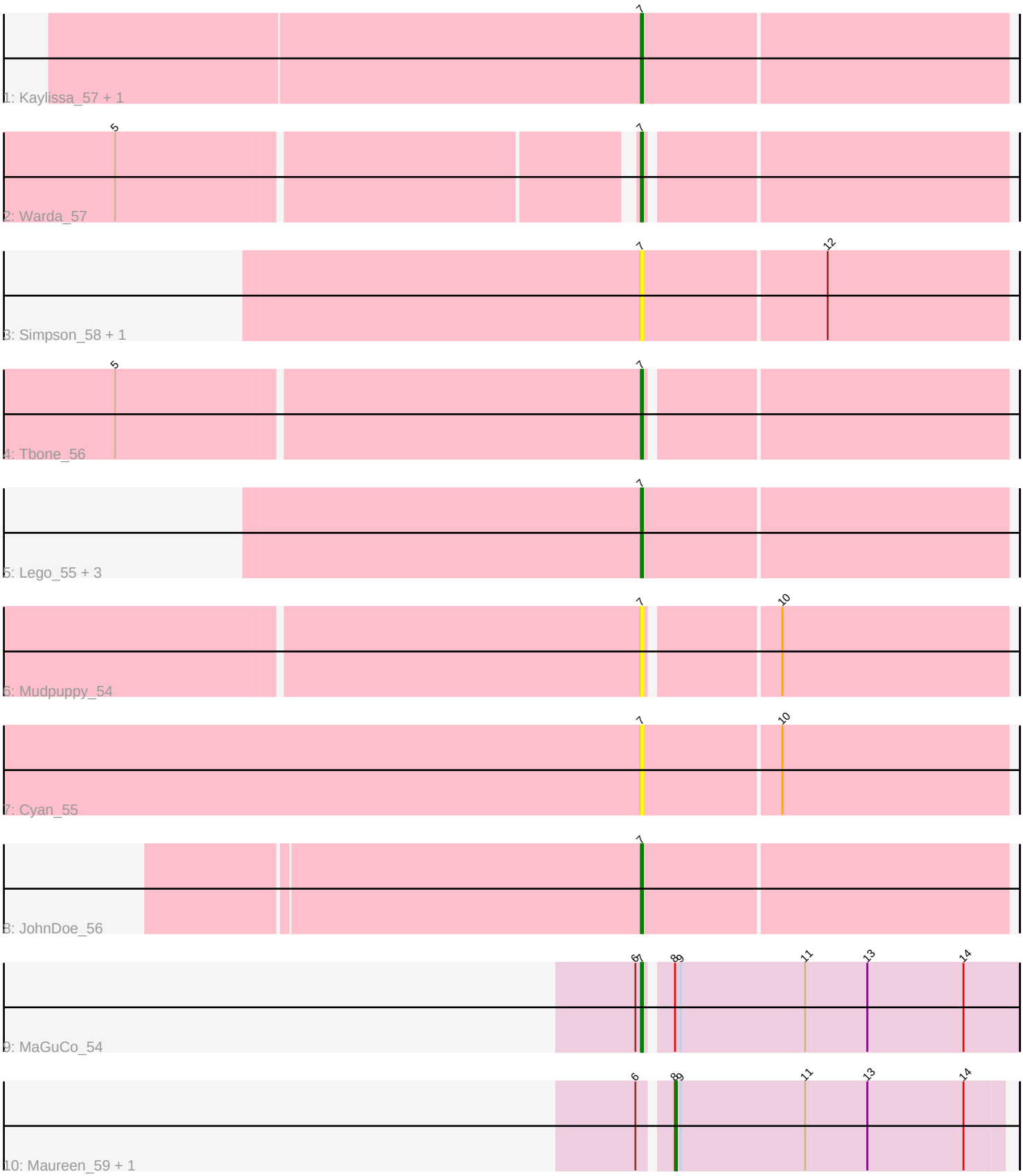
# Zoomed Pham 5849



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 04/05/24 on database version 557.

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),