

Figure 1 displays a 4x8 grid of genomic tracks for 8 individuals (1-8) across 4 chromosomes (A-D). The tracks are color-coded: A (light blue), B (light green), C (light red), and D (light orange). The tracks show various genomic features, including peaks and lines, labeled with numbers 1 through 31. The labels are placed above the corresponding tracks. The tracks are arranged in a grid where the first column represents chromosome A, the second column represents chromosome B, the third column represents chromosome C, and the fourth column represents chromosome D. The rows represent individuals 1 through 8. The tracks show a mix of peaks and lines, with some peaks labeled with numbers 1 through 31. The labels are placed above the corresponding tracks.

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 309709 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309709 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Sue2_53
- Track 2 : MiniMommy_58
- Track 3 : Emotion_60
- Track 4 : ShakeltOph_58, JasmineDragon_58
- Track 5 : FiveHead_59
- Track 6 : JohnThicc_55, Origami_55, LadyAstra_56
- Track 7 : VroomVroom_54
- Track 8 : AceofSpades_56

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

The start number called the most often in the published annotations is 2, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AceofSpades_56, Emotion_60, FiveHead_59, JasmineDragon_58, JohnThicc_55, LadyAstra_56, MiniMommy_58, Origami_55, ShakeltOph_58, VroomVroom_54,

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

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

- Sue2_53,

Summary by start number:

Start 2:

- Found in 10 of 11 (90.9%) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AceofSpades_56 (AZ4), Emotion_60 (AZ4), FiveHead_59 (AZ4), JasmineDragon_58 (AZ4), JohnThicc_55 (AZ4), LadyAstra_56 (AZ4), MiniMommy_58 (AZ4), Origami_55 (AZ4), ShakeltOph_58 (AZ4), VroomVroom_54 (AZ4),

Start 7:

- 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_53 (AZ1),

Summary by clusters:

There are 2 clusters represented in this pham: AZ1, AZ4,

Info for manual annotations of cluster AZ1:

- Start number 7 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ4:

- Start number 2 was manually annotated 8 times for cluster AZ4.

Gene Information:

Gene: AceofSpades_56 Start: 38782, Stop: 39594, Start Num: 2

Candidate Starts for AceofSpades_56:

(Start: 2 @38782 has 8 MA's), (4, 38821), (5, 38830), (10, 38935), (12, 38974), (14, 38986), (15, 39022), (17, 39037), (21, 39109), (28, 39367), (31, 39577),

Gene: Emotion_60 Start: 39928, Stop: 40788, Start Num: 2

Candidate Starts for Emotion_60:

(Start: 2 @39928 has 8 MA's), (3, 39952), (9, 40078), (23, 40348), (26, 40429), (28, 40564), (30, 40711), (31, 40768),

Gene: FiveHead_59 Start: 38360, Stop: 39232, Start Num: 2

Candidate Starts for FiveHead_59:

(1, 37943), (Start: 2 @38360 has 8 MA's), (4, 38405), (8, 38471), (10, 38519), (14, 38570), (15, 38606), (18, 38627), (20, 38699), (21, 38744), (24, 38813), (27, 38921), (28, 39005), (31, 39215),

Gene: JasmineDragon_58 Start: 39054, Stop: 39932, Start Num: 2

Candidate Starts for JasmineDragon_58:

(Start: 2 @39054 has 8 MA's), (4, 39099), (5, 39108), (8, 39165), (12, 39252), (14, 39264), (19, 39390), (20, 39396), (22, 39450), (25, 39531), (28, 39696),

Gene: JohnThicc_55 Start: 38360, Stop: 39232, Start Num: 2

Candidate Starts for JohnThicc_55:

(1, 37943), (Start: 2 @38360 has 8 MA's), (4, 38405), (8, 38471), (10, 38519), (14, 38570), (15, 38606), (18, 38627), (20, 38699), (21, 38744), (24, 38813), (27, 38921), (28, 39005), (29, 39050), (31, 39215),

Gene: LadyAstra_56 Start: 38460, Stop: 39332, Start Num: 2

Candidate Starts for LadyAstra_56:

(1, 38043), (Start: 2 @38460 has 8 MA's), (4, 38505), (8, 38571), (10, 38619), (14, 38670), (15, 38706), (18, 38727), (20, 38799), (21, 38844), (24, 38913), (27, 39021), (28, 39105), (29, 39150), (31, 39315),

Gene: MiniMommy_58 Start: 39057, Stop: 39935, Start Num: 2

Candidate Starts for MiniMommy_58:

(Start: 2 @39057 has 8 MA's), (4, 39102), (5, 39111), (6, 39129), (8, 39168), (12, 39255), (14, 39267), (19, 39393), (20, 39399), (22, 39453), (25, 39534), (28, 39699),

Gene: Origami_55 Start: 38252, Stop: 39124, Start Num: 2

Candidate Starts for Origami_55:

(1, 37835), (Start: 2 @38252 has 8 MA's), (4, 38297), (8, 38363), (10, 38411), (14, 38462), (15, 38498), (18, 38519), (20, 38591), (21, 38636), (24, 38705), (27, 38813), (28, 38897), (29, 38942), (31, 39107),

Gene: ShakeltOph_58 Start: 39054, Stop: 39932, Start Num: 2

Candidate Starts for ShakeltOph_58:

(Start: 2 @39054 has 8 MA's), (4, 39099), (5, 39108), (8, 39165), (12, 39252), (14, 39264), (19, 39390), (20, 39396), (22, 39450), (25, 39531), (28, 39696),

Gene: Sue2_53 Start: 37281, Stop: 38084, Start Num: 7

Candidate Starts for Sue2_53:

(Start: 7 @37281 has 1 MA's), (11, 37395), (13, 37404), (16, 37461),

Gene: VroomVroom_54 Start: 38259, Stop: 39080, Start Num: 2

Candidate Starts for VroomVroom_54:

(Start: 2 @38259 has 8 MA's), (4, 38298), (5, 38307), (10, 38412), (12, 38451), (14, 38463), (15, 38499), (17, 38514), (21, 38586), (25, 38679), (28, 38844), (31, 39054),