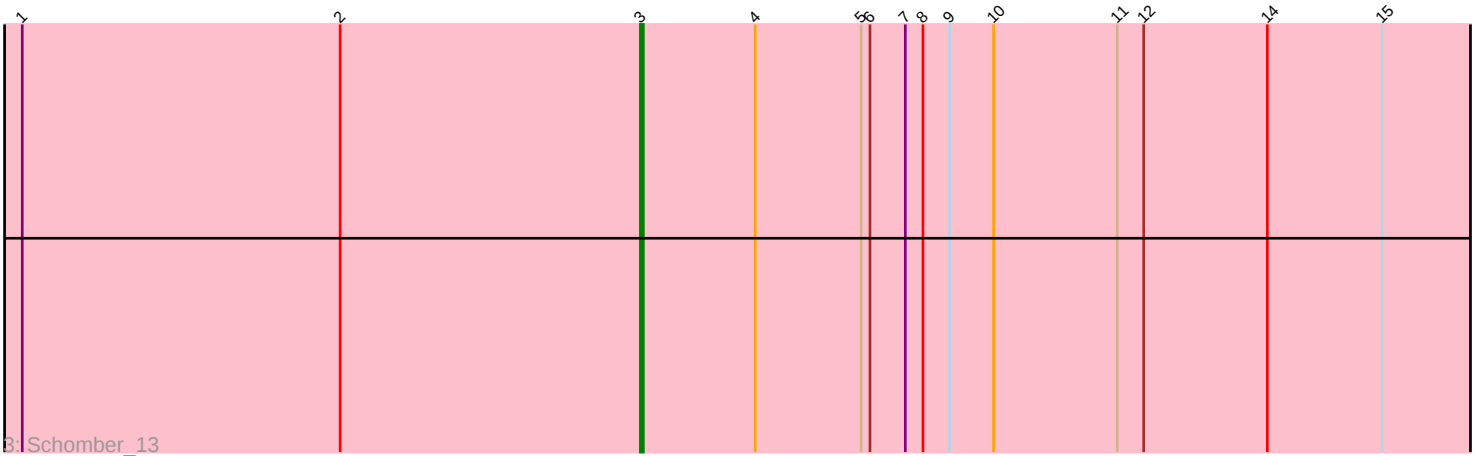
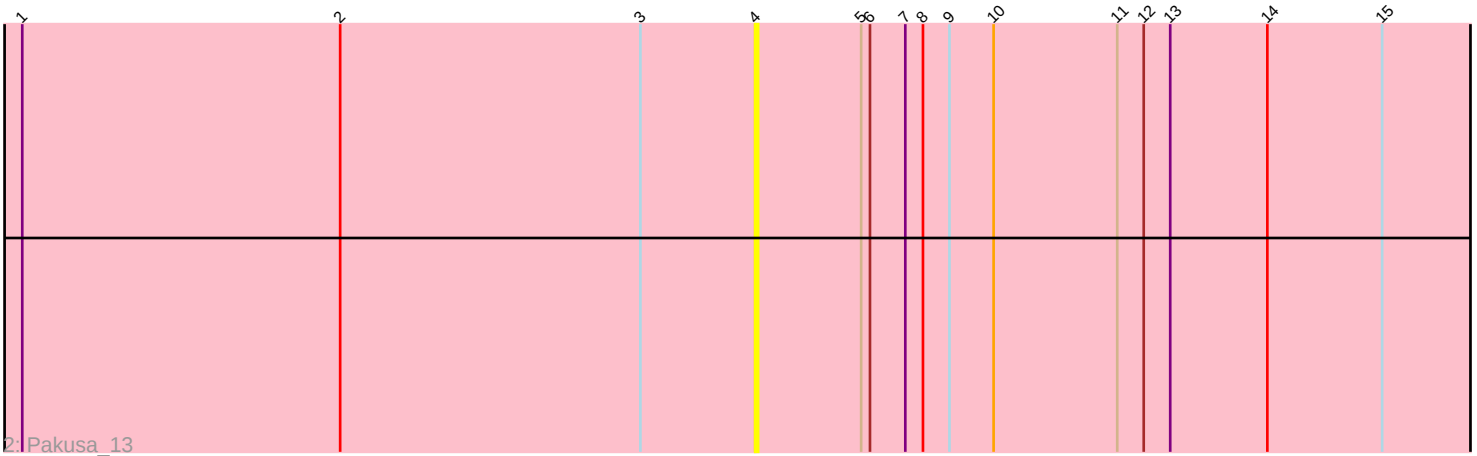
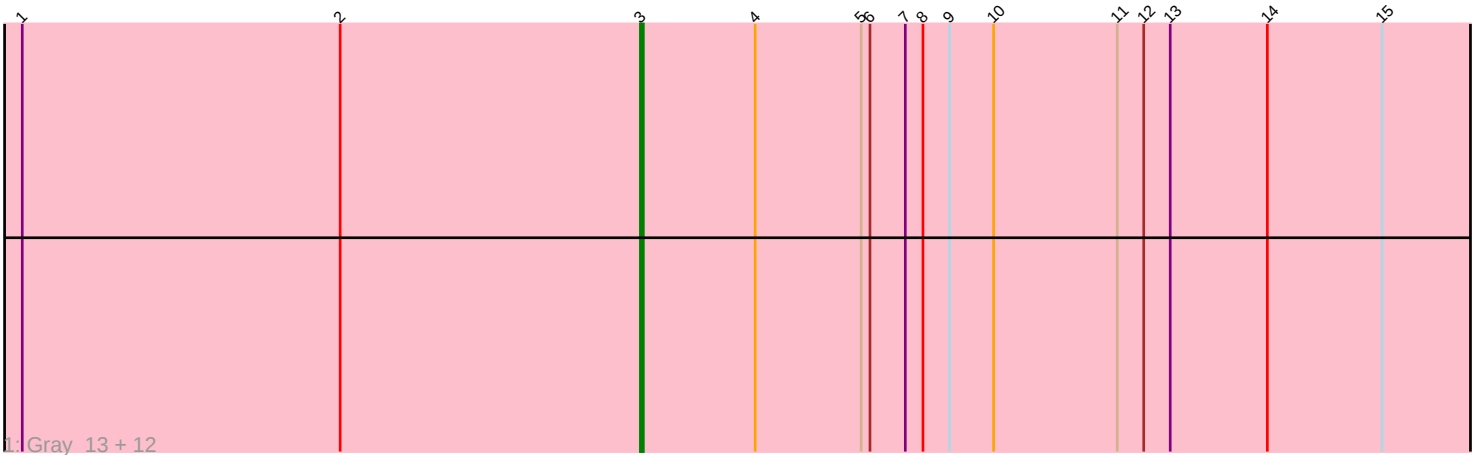




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 270037 Report

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

Pham number 270037 has 15 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Gray_13, Beted_14, Alok_i_13, Lenoshki_14, Mikronejon_13, Toneprano_13, Hanem_13, MintFritos_13, Chidiebere_13, Kabocha_13, Farrylious_13, Oogie_14, EmoNemo_13
- Track 2 : Pakusa_13
- Track 3 : Schomber_13

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

The start number called the most often in the published annotations is 3, it was called in 5 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok_i_13, Beted_14, Chidiebere_13, EmoNemo_13, Farrylious_13, Gray_13, Hanem_13, Kabocha_13, Lenoshki_14, Mikronejon_13, MintFritos_13, Oogie_14, Schomber_13, Toneprano_13,

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

- Pakusa_13,

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

•

Summary by start number:

Start 3:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 5
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Alok_i_13 (DQ), Beted_14 (DQ), Chidiebere_13 (DQ), EmoNemo_13 (DQ), Farrylious_13 (DQ), Gray_13 (DQ), Hanem_13 (DQ), Kabocha_13 (DQ), Lenoshki_14 (DQ), Mikronejon_13 (DQ), MintFritos_13 (DQ), Oogie_14 (DQ), Schomber_13 (DQ), Toneprano_13 (DQ),

Start 4:

- Found in 15 of 15 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Pakusa_13 (DQ),

Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 3 was manually annotated 5 times for cluster DQ.

Gene Information:

Gene: Alok_i_13 Start: 5411, Stop: 5692, Start Num: 3

Candidate Starts for Alok_i_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),

Gene: Beted_14 Start: 5308, Stop: 5592, Start Num: 3

Candidate Starts for Beted_14:

(1, 5098), (2, 5206), (Start: 3 @5308 has 5 MA's), (4, 5347), (5, 5383), (6, 5386), (7, 5398), (8, 5404), (9, 5413), (10, 5428), (11, 5470), (12, 5479), (13, 5488), (14, 5521), (15, 5560),

Gene: Chidiebere_13 Start: 5411, Stop: 5692, Start Num: 3

Candidate Starts for Chidiebere_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),

Gene: EmoNemo_13 Start: 5411, Stop: 5692, Start Num: 3

Candidate Starts for EmoNemo_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),

Gene: Farrylious_13 Start: 5435, Stop: 5716, Start Num: 3

Candidate Starts for Farrylious_13:

(1, 5225), (2, 5333), (Start: 3 @5435 has 5 MA's), (4, 5474), (5, 5510), (6, 5513), (7, 5525), (8, 5531), (9, 5540), (10, 5555), (11, 5597), (12, 5606), (13, 5615), (14, 5648), (15, 5687),

Gene: Gray_13 Start: 5411, Stop: 5695, Start Num: 3

Candidate Starts for Gray_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),

Gene: Hanem_13 Start: 5411, Stop: 5692, Start Num: 3

Candidate Starts for Hanem_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),

Gene: Kabocha_13 Start: 5411, Stop: 5692, Start Num: 3

Candidate Starts for Kabocha_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),

Gene: Lenoshki_14 Start: 5308, Stop: 5592, Start Num: 3

Candidate Starts for Lenoshki_14:

(1, 5098), (2, 5206), (Start: 3 @5308 has 5 MA's), (4, 5347), (5, 5383), (6, 5386), (7, 5398), (8, 5404), (9, 5413), (10, 5428), (11, 5470), (12, 5479), (13, 5488), (14, 5521), (15, 5560),

Gene: Mikronejon_13 Start: 5411, Stop: 5692, Start Num: 3

Candidate Starts for Mikronejon_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),

Gene: MintFritos_13 Start: 5411, Stop: 5692, Start Num: 3

Candidate Starts for MintFritos_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),

Gene: Oogie_14 Start: 5308, Stop: 5592, Start Num: 3

Candidate Starts for Oogie_14:

(1, 5098), (2, 5206), (Start: 3 @5308 has 5 MA's), (4, 5347), (5, 5383), (6, 5386), (7, 5398), (8, 5404), (9, 5413), (10, 5428), (11, 5470), (12, 5479), (13, 5488), (14, 5521), (15, 5560),

Gene: Pakusa_13 Start: 5192, Stop: 5434, Start Num: 4

Candidate Starts for Pakusa_13:

(1, 4943), (2, 5051), (Start: 3 @5153 has 5 MA's), (4, 5192), (5, 5228), (6, 5231), (7, 5243), (8, 5249), (9, 5258), (10, 5273), (11, 5315), (12, 5324), (13, 5333), (14, 5366), (15, 5405),

Gene: Schomber_13 Start: 5411, Stop: 5695, Start Num: 3

Candidate Starts for Schomber_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (14, 5624), (15, 5663),

Gene: Toneprano_13 Start: 5411, Stop: 5692, Start Num: 3

Candidate Starts for Toneprano_13:

(1, 5201), (2, 5309), (Start: 3 @5411 has 5 MA's), (4, 5450), (5, 5486), (6, 5489), (7, 5501), (8, 5507), (9, 5516), (10, 5531), (11, 5573), (12, 5582), (13, 5591), (14, 5624), (15, 5663),