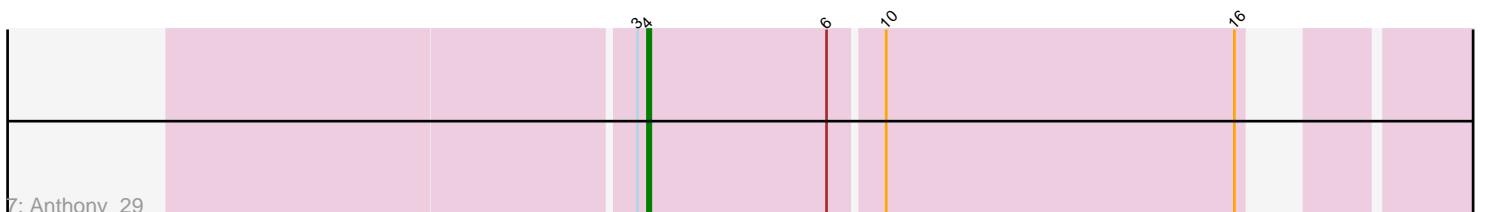
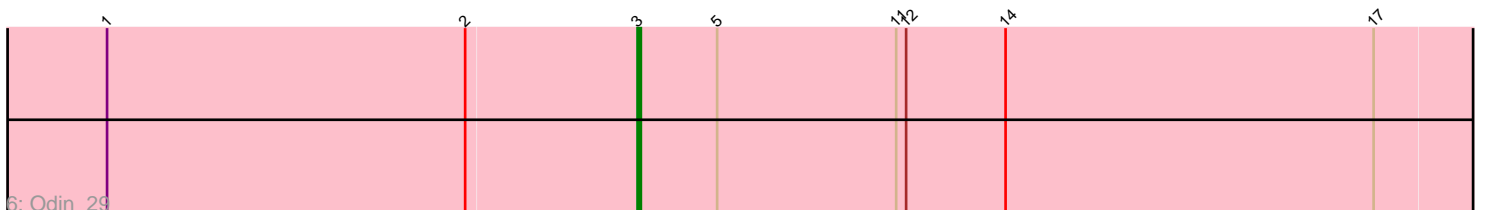
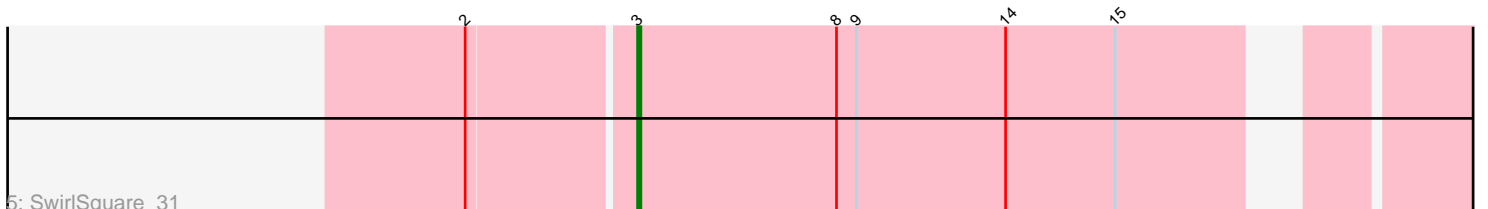
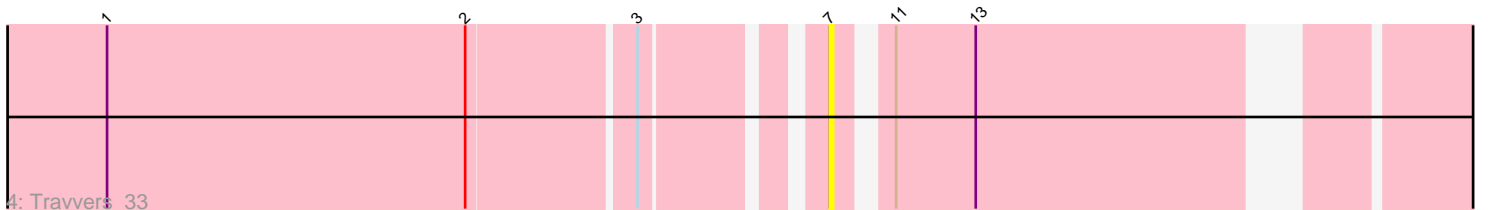
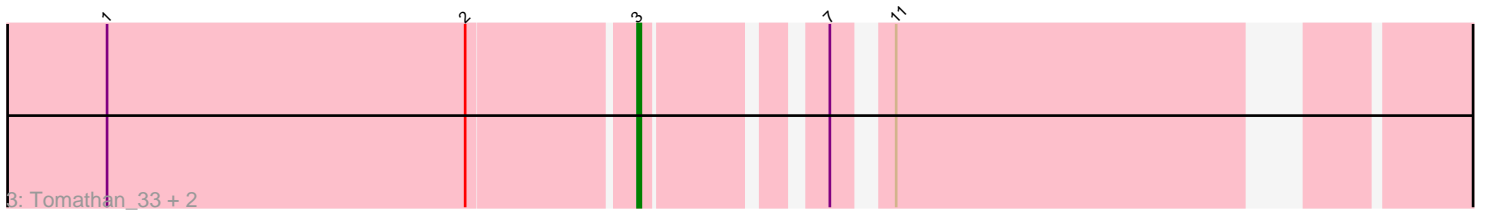
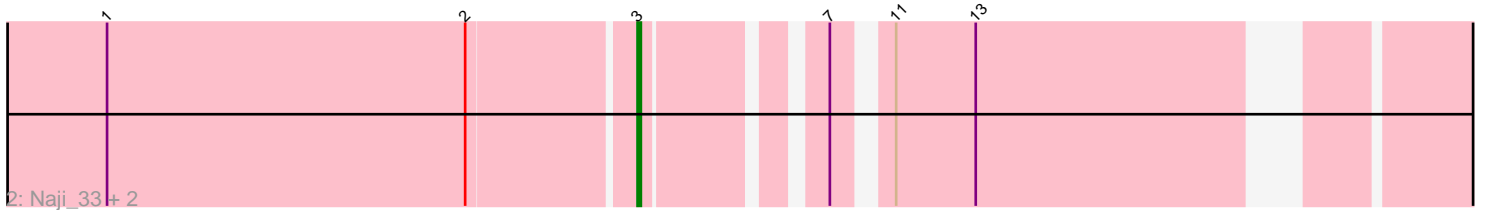
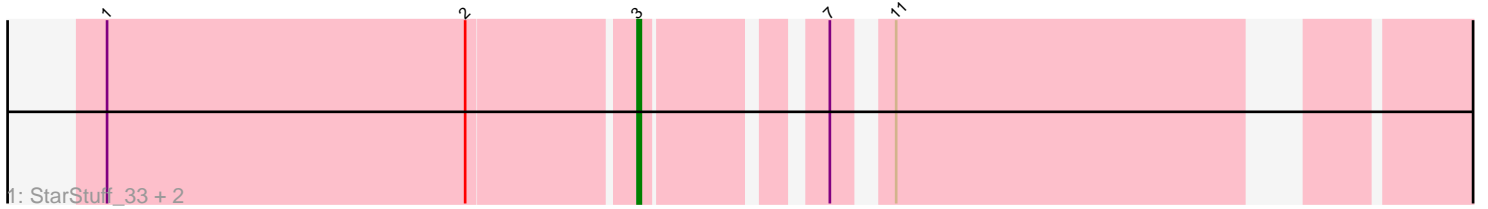


Pham 297099



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 297099 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297099 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : StarStuff_33, DBQu4n_33, Duplo_33
- Track 2 : Naji_33, D29_30, D32_33
- Track 3 : Tomathan_33, Kerberos_33, Pomar16_33
- Track 4 : Travvers_33
- Track 5 : SwirlSquare_31
- Track 6 : Odin_29
- Track 7 : Anthony_29

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 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- D29_30, D32_33, DBQu4n_33, Duplo_33, Kerberos_33, Naji_33, Odin_29, Pomar16_33, StarStuff_33, SwirlSquare_31, Tomathan_33,

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

- Anthony_29, Travvers_33,

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

-

Summary by start number:

Start 3:

- Found in 13 of 13 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 12
- Called 84.6% of time when present
- Phage (with cluster) where this start called: D29_30 (A2), D32_33 (A2), DBQu4n_33 (A2), Duplo_33 (A2), Kerberos_33 (A2), Naji_33 (A2), Odin_29 (A2), Pomar16_33 (A2), StarStuff_33 (A2), SwirlSquare_31 (A2), Tomathan_33 (A2),

Start 4:

- Found in 1 of 13 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_29 (A20),

Start 7:

- Found in 10 of 13 (76.9%) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Travvers_33 (A2),

Summary by clusters:

There are 2 clusters represented in this pham: A20, A2,

Info for manual annotations of cluster A2:

- Start number 3 was manually annotated 11 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 4 was manually annotated 1 time for cluster A20.

Gene Information:

Gene: Anthony_29 Start: 20938, Stop: 21222, Start Num: 4

Candidate Starts for Anthony_29:

(Start: 3 @20935 has 11 MA's), (Start: 4 @20938 has 1 MA's), (6, 20992), (10, 21007), (16, 21112),

Gene: D29_30 Start: 22296, Stop: 22562, Start Num: 3

Candidate Starts for D29_30:

(1, 22140), (2, 22248), (Start: 3 @22296 has 11 MA's), (7, 22341), (11, 22353), (13, 22377),

Gene: D32_33 Start: 22296, Stop: 22562, Start Num: 3

Candidate Starts for D32_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 11 MA's), (7, 22341), (11, 22353), (13, 22377),

Gene: DBQu4n_33 Start: 22296, Stop: 22562, Start Num: 3

Candidate Starts for DBQu4n_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 11 MA's), (7, 22341), (11, 22353),

Gene: Duplo_33 Start: 22334, Stop: 22600, Start Num: 3

Candidate Starts for Duplo_33:

(1, 22178), (2, 22286), (Start: 3 @22334 has 11 MA's), (7, 22379), (11, 22391),

Gene: Kerberos_33 Start: 22296, Stop: 22562, Start Num: 3

Candidate Starts for Kerberos_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 11 MA's), (7, 22341), (11, 22353),

Gene: Naji_33 Start: 22296, Stop: 22562, Start Num: 3

Candidate Starts for Naji_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 11 MA's), (7, 22341), (11, 22353), (13, 22377),

Gene: Odin_29 Start: 21218, Stop: 21526, Start Num: 3

Candidate Starts for Odin_29:

(1, 21059), (2, 21167), (Start: 3 @21218 has 11 MA's), (5, 21242), (11, 21296), (12, 21299), (14, 21329), (17, 21440),

Gene: Pomar16_33 Start: 22337, Stop: 22603, Start Num: 3

Candidate Starts for Pomar16_33:

(1, 22181), (2, 22289), (Start: 3 @22337 has 11 MA's), (7, 22382), (11, 22394),

Gene: StarStuff_33 Start: 22296, Stop: 22562, Start Num: 3

Candidate Starts for StarStuff_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 11 MA's), (7, 22341), (11, 22353),

Gene: SwirlSquare_31 Start: 21246, Stop: 21536, Start Num: 3

Candidate Starts for SwirlSquare_31:

(2, 21198), (Start: 3 @21246 has 11 MA's), (8, 21306), (9, 21312), (14, 21357), (15, 21390),

Gene: Tomathan_33 Start: 22296, Stop: 22562, Start Num: 3

Candidate Starts for Tomathan_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 11 MA's), (7, 22341), (11, 22353),

Gene: Travvers_33 Start: 22341, Stop: 22562, Start Num: 7

Candidate Starts for Travvers_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 11 MA's), (7, 22341), (11, 22353), (13, 22377),