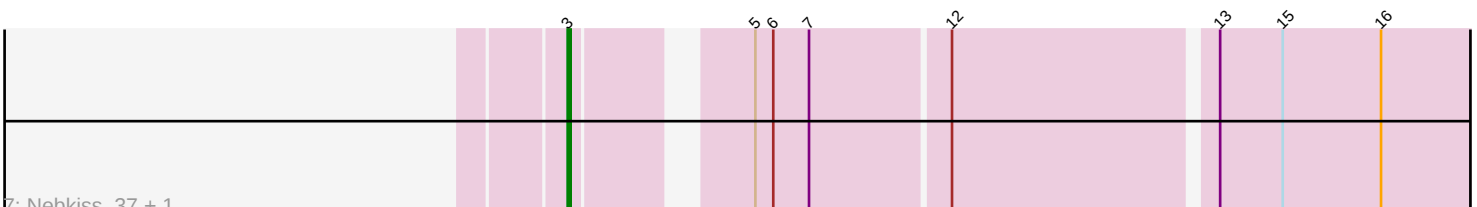
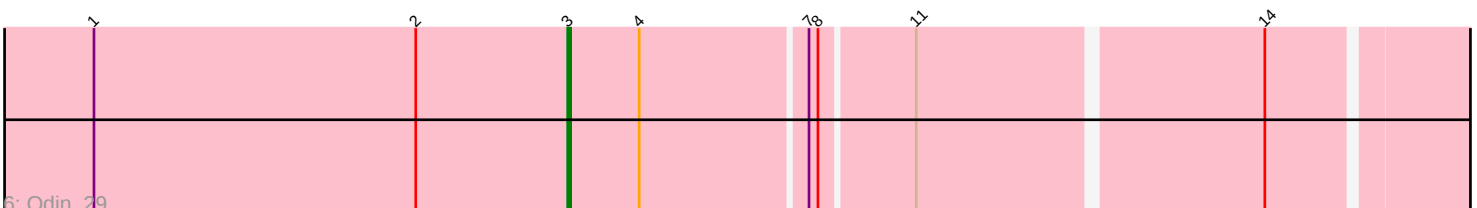
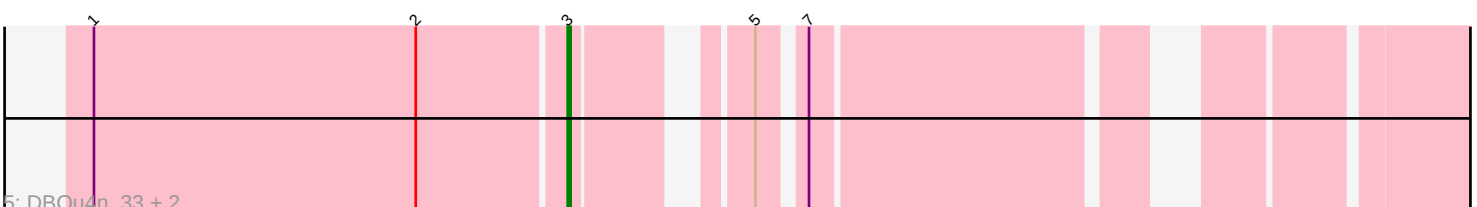
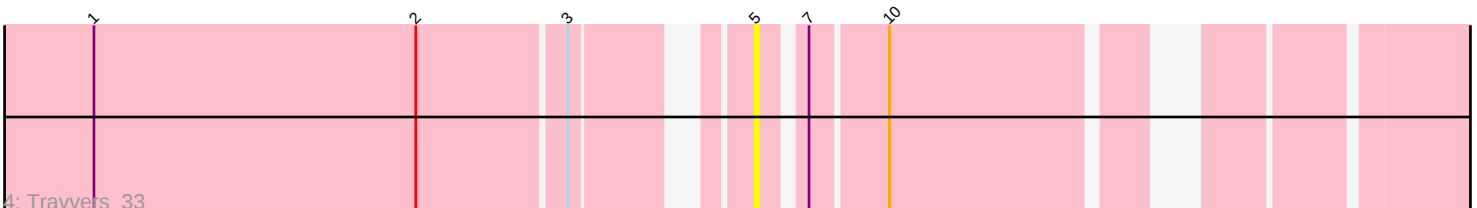
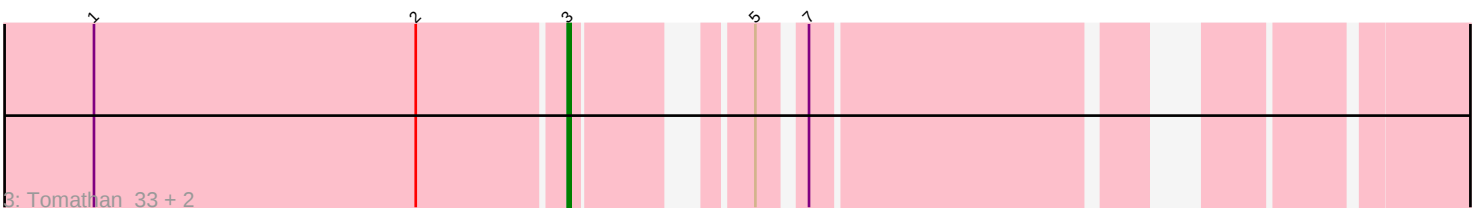
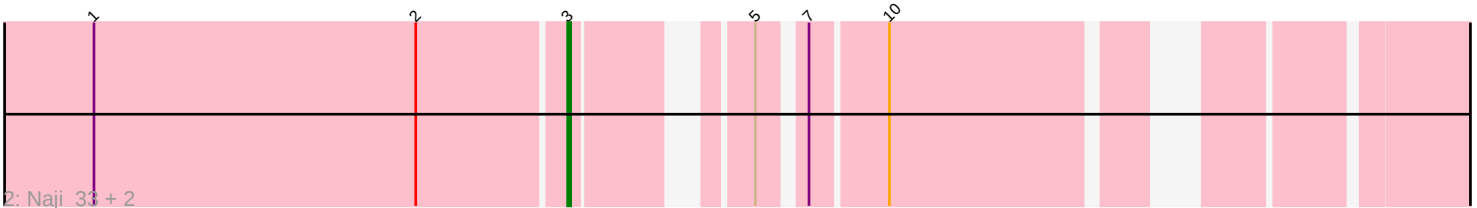
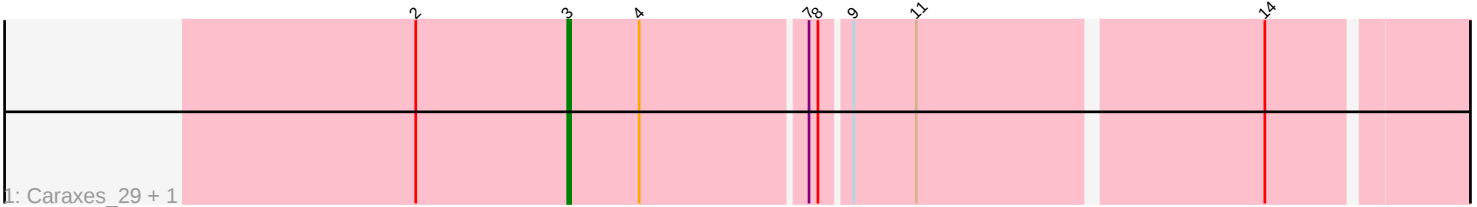


Pham 331374



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 331374 Report

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

Pham number 331374 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Caraxes_29, Superchunk_29
- Track 2 : Naji_33, D29_30, D32_33
- Track 3 : Tomathan_33, Kerberos_33, Pomar16_33
- Track 4 : Travvers_33
- Track 5 : DBQu4n_33, Duplo_33, StarStuff_33
- Track 6 : Odin_29
- Track 7 : Nebkiss_37, Gaia_36

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 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Caraxes_29, D29_30, D32_33, DBQu4n_33, Duplo_33, Gaia_36, Kerberos_33, Naji_33, Nebkiss_37, Odin_29, Pomar16_33, StarStuff_33, Superchunk_29, Tomathan_33,

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

- Travvers_33,

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: 13 of 13
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Caraxes_29 (A2), D29_30 (A2), D32_33 (A2), DBQu4n_33 (A2), Duplo_33 (A2), Gaia_36 (X), Kerberos_33 (A2), Naji_33 (A2), Nebkiss_37 (X), Odin_29 (A2), Pomar16_33 (A2), StarStuff_33 (A2), Superchunk_29 (A2), Tomathan_33 (A2),

Start 5:

- Found in 12 of 15 (80.0%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% 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: X, 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 X:

- Start number 3 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Caraxes_29 Start: 21092, Stop: 21400, Start Num: 3

Candidate Starts for Caraxes_29:

(2, 21041), (Start: 3 @21092 has 13 MA's), (4, 21116), (7, 21170), (8, 21173), (9, 21182), (11, 21203), (14, 21314),

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

Candidate Starts for D29_30:

(1, 22140), (2, 22248), (Start: 3 @22296 has 13 MA's), (5, 22341), (7, 22353), (10, 22377),

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

Candidate Starts for D32_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 13 MA's), (5, 22341), (7, 22353), (10, 22377),

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

Candidate Starts for DBQu4n_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 13 MA's), (5, 22341), (7, 22353),

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

Candidate Starts for Duplo_33:

(1, 22178), (2, 22286), (Start: 3 @22334 has 13 MA's), (5, 22379), (7, 22391),

Gene: Gaia_36 Start: 31870, Stop: 32178, Start Num: 3

Candidate Starts for Gaia_36:

(Start: 3 @31870 has 13 MA's), (5, 31918), (6, 31924), (7, 31936), (12, 31981), (13, 32065), (15, 32086), (16, 32119),

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

Candidate Starts for Kerberos_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 13 MA's), (5, 22341), (7, 22353),

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

Candidate Starts for Naji_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 13 MA's), (5, 22341), (7, 22353), (10, 22377),

Gene: Nebkiss_37 Start: 31571, Stop: 31879, Start Num: 3

Candidate Starts for Nebkiss_37:

(Start: 3 @31571 has 13 MA's), (5, 31619), (6, 31625), (7, 31637), (12, 31682), (13, 31766), (15, 31787), (16, 31820),

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

Candidate Starts for Odin_29:

(1, 21059), (2, 21167), (Start: 3 @21218 has 13 MA's), (4, 21242), (7, 21296), (8, 21299), (11, 21329), (14, 21440),

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

Candidate Starts for Pomar16_33:

(1, 22181), (2, 22289), (Start: 3 @22337 has 13 MA's), (5, 22382), (7, 22394),

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

Candidate Starts for StarStuff_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 13 MA's), (5, 22341), (7, 22353),

Gene: Superchunk_29 Start: 21092, Stop: 21400, Start Num: 3

Candidate Starts for Superchunk_29:

(2, 21041), (Start: 3 @21092 has 13 MA's), (4, 21116), (7, 21170), (8, 21173), (9, 21182), (11, 21203), (14, 21314),

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

Candidate Starts for Tomathan_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 13 MA's), (5, 22341), (7, 22353),

Gene: Travvers_33 Start: 22341, Stop: 22562, Start Num: 5

Candidate Starts for Travvers_33:

(1, 22140), (2, 22248), (Start: 3 @22296 has 13 MA's), (5, 22341), (7, 22353), (10, 22377),