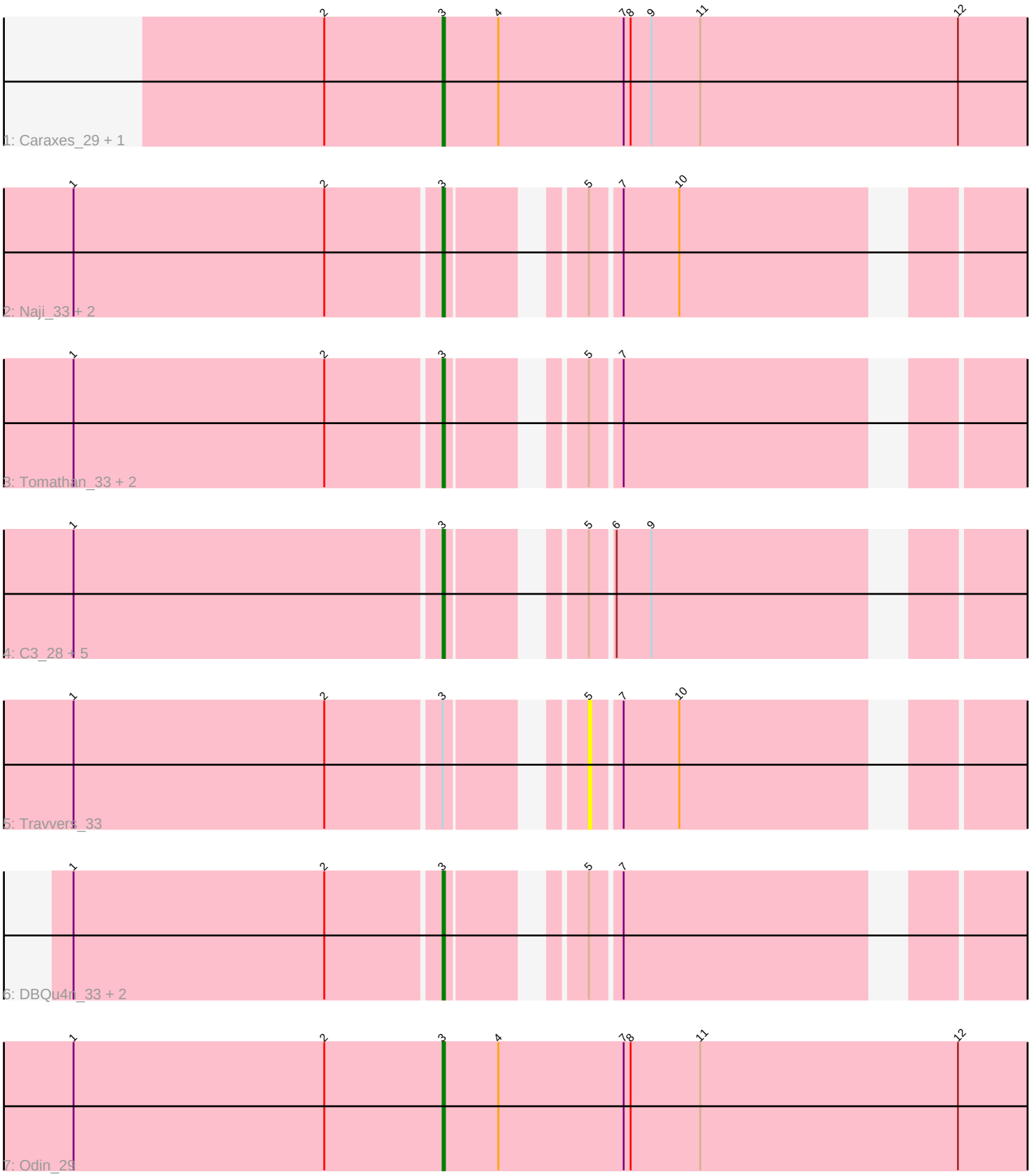
Pham 224919


1: Caraxes_29 + 1
2: Naji_33 + 2
3: Tomathan_33 + 2
4: C3_28 + 5
5: Travvers_33
6: DBQu4n_33 + 2
7: Odin_29

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 224919 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224919 has 19 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 : C3_28, ANI8_33, AN3_30, VA6_30, AN9_33, VC3_33
• Track 5 : Travvers_33
• Track 6 : DBQu4n_33, Duplo_33, StarStuff_33
• Track 7 : Odin_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 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AN3_30, AN9_33, ANI8_33, C3_28, Caraxes_29, D29_30, D32_33, DBQu4n_33, Duplo_33, Kerberos_33, Naji_33, Odin_29, Pomar16_33, StarStuff_33, Superchunk_29, Tomathan_33, VA6_30, VC3_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 19 of 19 (100.0%) of genes in pham
• Manual Annotations of this start: 17 of 17
• Called 94.7% of time when present
• Phage (with cluster) where this start called: AN3_30 (A2), AN9_33 (A2), ANI8_33 (A2), C3_28 (A2), Caraxes_29 (A2), 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), Superchunk_29 (A2), Tomathan_33 (A2), VA6_30 (A2), VC3_33

(A2),

Start 5:
• Found in 16 of 19 (84.2%) of genes in pham
• No Manual Annotations of this start.
• Called 6.2% of time when present
• Phage (with cluster) where this start called: Travvers_33 (A2),

Summary by clusters:

There is one cluster represented in this pham: A2

Info for manual annotations of cluster A2:
•Start number 3 was manually annotated 17 times for cluster A2.

Gene Information:

Gene: AN3_30 Start: 22452, Stop: 22718, Start Num: 3
Candidate Starts for AN3_30:
(1, 22296), (Start: 3 @22452 has 17 MA's), (5, 22497), (6, 22506), (9, 22521),

Gene: AN9_33 Start: 22440, Stop: 22706, Start Num: 3
Candidate Starts for AN9_33:
(1, 22284), (Start: 3 @22440 has 17 MA's), (5, 22485), (6, 22494), (9, 22509),

Gene: ANI8_33 Start: 22440, Stop: 22706, Start Num: 3
Candidate Starts for ANI8_33:
(1, 22284), (Start: 3 @22440 has 17 MA's), (5, 22485), (6, 22494), (9, 22509),

Gene: C3_28 Start: 22440, Stop: 22706, Start Num: 3
Candidate Starts for C3_28:
(1, 22284), (Start: 3 @22440 has 17 MA's), (5, 22485), (6, 22494), (9, 22509),

Gene: Caraxes_29 Start: 21092, Stop: 21400, Start Num: 3
Candidate Starts for Caraxes_29:
(2, 21041), (Start: 3 @21092 has 17 MA's), (4, 21116), (7, 21170), (8, 21173), (9, 21182), (11, 21203), (12, 21314),

Gene: D29_30 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for D29_30:
(1, 22140), (2, 22248), (Start: 3 @22296 has 17 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 17 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 17 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 17 MA's), (5, 22379), (7, 22391),

Gene: Kerberos_33 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for Kerberos_33:
(1, 22140), (2, 22248), (Start: 3 @22296 has 17 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 17 MA's), (5, 22341), (7, 22353), (10, 22377),

Gene: Odin_29 Start: 21218, Stop: 21526, Start Num: 3
Candidate Starts for Odin_29:
(1, 21059), (2, 21167), (Start: 3 @21218 has 17 MA's), (4, 21242), (7, 21296), (8, 21299), (11, 21329), (12, 21440),

Gene: Pomar16_33 Start: 22337, Stop: 22603, Start Num: 3
Candidate Starts for Pomar16_33:
(1, 22181), (2, 22289), (Start: 3 @22337 has 17 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 17 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 17 MA's), (4, 21116), (7, 21170), (8, 21173), (9, 21182), (11, 21203), (12, 21314),

Gene: Tomathan_33 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for Tomathan_33:
(1, 22140), (2, 22248), (Start: 3 @22296 has 17 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 17 MA's), (5, 22341), (7, 22353), (10, 22377),

Gene: VA6_30 Start: 22452, Stop: 22718, Start Num: 3
Candidate Starts for VA6_30:
(1, 22296), (Start: 3 @22452 has 17 MA's), (5, 22497), (6, 22506), (9, 22521),

Gene: VC3_33 Start: 22440, Stop: 22706, Start Num: 3
Candidate Starts for VC3_33:
(1, 22284), (Start: 3 @22440 has 17 MA's), (5, 22485), (6, 22494), (9, 22509),