

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 203367 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203367 has 18 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: C3_28, ANI8_33, AN3_30, VA6_30, AN9_33, VC3_33

• Track 5 : Travvers_33

• 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 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

AN3_30, AN9_33, ANI8_33, C3_28, D29_30, D32_33, DBQu4n_33, Duplo_33, Kerberos_33, Naji_33, Odin_29, Pomar16_33, StarStuff_33, Tomathan_33, VA6_30, VC3_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:

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Summary by start number:

Start 3:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 17
- Called 88.9% of time when present
- Phage (with cluster) where this start called: AN3_30 (A2), AN9_33 (A2), ANI8_33 (A2), C3_28 (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), Tomathan_33 (A2), VA6_30 (A2), VC3_33 (A2),

Start 4:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_29 (A20),

Start 7:

- Found in 16 of 18 (88.9%) 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 are 2 clusters represented in this pham: A20, A2,

Info for manual annotations of cluster A2:

•Start number 3 was manually annotated 16 times for cluster A2.

Info for manual annotations of cluster A20:

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

Candidate Starts for D32_33:

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

Gene Information:

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Gene: AN3 30 Start: 22452, Stop: 22718, Start Num: 3
Candidate Starts for AN3 30:
(1, 22296), (Start: 3 @ 22452 has 16 MA's), (7, 22497), (8, 22506), (11, 22521),
Gene: AN9 33 Start: 22440, Stop: 22706, Start Num: 3
Candidate Starts for AN9 33:
(1, 22284), (Start: 3 @ 22440 has 16 MA's), (7, 22485), (8, 22494), (11, 22509),
Gene: ANI8_33 Start: 22440, Stop: 22706, Start Num: 3
Candidate Starts for ANI8 33:
(1, 22284), (Start: 3 @22440 has 16 MA's), (7, 22485), (8, 22494), (11, 22509),
Gene: Anthony_29 Start: 20938, Stop: 21222, Start Num: 4
Candidate Starts for Anthony 29:
(Start: 3 @ 20935 has 16 MA's), (Start: 4 @ 20938 has 1 MA's), (6, 20992), (8, 21007), (14, 21112),
Gene: C3 28 Start: 22440, Stop: 22706, Start Num: 3
Candidate Starts for C3 28:
(1, 22284), (Start: 3 @ 22440 has 16 MA's), (7, 22485), (8, 22494), (11, 22509),
Gene: D29_30 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for D29 30:
(1, 22140), (2, 22248), (Start: 3 @ 22296 has 16 MA's), (7, 22341), (9, 22353), (12, 22377),
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(1, 22140), (2, 22248), (Start: 3 @22296 has 16 MA's), (7, 22341), (9, 22353), (12, 22377),
Gene: DBQu4n_33 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for DBQu4n_33:
(1, 22140), (2, 22248), (Start: 3 @22296 has 16 MA's), (7, 22341), (9, 22353),
Gene: Duplo_33 Start: 22334, Stop: 22600, Start Num: 3
Candidate Starts for Duplo 33:
(1, 22178), (2, 22286), (Start: 3 @22334 has 16 MA's), (7, 22379), (9, 22391),
Gene: Kerberos 33 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for Kerberos 33:
(1, 22140), (2, 22248), (Start: 3 @22296 has 16 MA's), (7, 22341), (9, 22353),
Gene: Naji_33 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for Naji_33:
(1, 22140), (2, 22248), (Start: 3 @22296 has 16 MA's), (7, 22341), (9, 22353), (12, 22377),
Gene: Odin 29 Start: 21218, Stop: 21526, Start Num: 3
Candidate Starts for Odin_29:
(1, 21059), (2, 21167), (Start: 3 @21218 has 16 MA's), (5, 21242), (9, 21296), (10, 21299), (13, 21329),
(15, 21440),
Gene: Pomar16_33 Start: 22337, Stop: 22603, Start Num: 3
Candidate Starts for Pomar16 33:
(1, 22181), (2, 22289), (Start: 3 @22337 has 16 MA's), (7, 22382), (9, 22394),
Gene: StarStuff 33 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for StarStuff_33:
(1, 22140), (2, 22248), (Start: 3 @22296 has 16 MA's), (7, 22341), (9, 22353),
Gene: Tomathan_33 Start: 22296, Stop: 22562, Start Num: 3
Candidate Starts for Tomathan 33:
(1, 22140), (2, 22248), (Start: 3 @22296 has 16 MA's), (7, 22341), (9, 22353),
Gene: Travvers_33 Start: 22341, Stop: 22562, Start Num: 7
Candidate Starts for Travvers_33:
(1, 22140), (2, 22248), (Start: 3 @22296 has 16 MA's), (7, 22341), (9, 22353), (12, 22377),
Gene: VA6_30 Start: 22452, Stop: 22718, Start Num: 3
Candidate Starts for VA6 30:
(1, 22296), (Start: 3 @ 22452 has 16 MA's), (7, 22497), (8, 22506), (11, 22521),
Gene: VC3 33 Start: 22440, Stop: 22706, Start Num: 3
Candidate Starts for VC3 33:
(1, 22284), (Start: 3 @ 22440 has 16 MA's), (7, 22485), (8, 22494), (11, 22509),
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