



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 7575 Report

This analysis was run 04/28/24 on database version 559.

Pham number 7575 has 7 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Casino_42, Hannabella_42, Gshelby23_40
- Track 2 : Scruffy_42
- Track 3 : DoTi_42, Araxxi_42
- Track 4 : Arete_42

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 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Araxxi_42, Casino_42, DoTi_42, Gshelby23_40, Hannabella_42, Scruffy_42,

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

- Arete_42,

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

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Summary by start number:

Start 2:

- Found in 5 of 7 (71.4%) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Arete_42 (EM1),

Start 3:

- Found in 7 of 7 (100.0%) of genes in pham
- Manual Annotations of this start: 4 of 5
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Araxxi_42 (EM1), Casino_42 (EM1), DoTi_42 (EM1), Gshelby23_40 (EM1), Hannabella_42 (EM1), Scruffy_42 (EM1),

Summary by clusters:

There is one cluster represented in this pham: EM1

Info for manual annotations of cluster EM1:

- Start number 2 was manually annotated 1 time for cluster EM1.
- Start number 3 was manually annotated 4 times for cluster EM1.

Gene Information:

Gene: Araxxi_42 Start: 48832, Stop: 49176, Start Num: 3

Candidate Starts for Araxxi_42:

(Start: 3 @48832 has 4 MA's), (4, 48865), (5, 49000), (6, 49003), (7, 49024), (8, 49045), (9, 49087),

Gene: Arete_42 Start: 48551, Stop: 48898, Start Num: 2

Candidate Starts for Arete_42:

(Start: 2 @48551 has 1 MA's), (Start: 3 @48554 has 4 MA's), (4, 48587), (5, 48722), (6, 48725), (8, 48767), (9, 48809), (10, 48836), (11, 48854),

Gene: Casino_42 Start: 48529, Stop: 48873, Start Num: 3

Candidate Starts for Casino_42:

(1, 48310), (Start: 2 @48526 has 1 MA's), (Start: 3 @48529 has 4 MA's), (4, 48562), (5, 48697), (6, 48700), (8, 48742), (9, 48784), (10, 48811), (11, 48829),

Gene: DoTi_42 Start: 48936, Stop: 49280, Start Num: 3

Candidate Starts for DoTi_42:

(Start: 3 @48936 has 4 MA's), (4, 48969), (5, 49104), (6, 49107), (7, 49128), (8, 49149), (9, 49191),

Gene: Gshelby23_40 Start: 48464, Stop: 48808, Start Num: 3

Candidate Starts for Gshelby23_40:

(1, 48245), (Start: 2 @48461 has 1 MA's), (Start: 3 @48464 has 4 MA's), (4, 48497), (5, 48632), (6, 48635), (8, 48677), (9, 48719), (10, 48746), (11, 48764),

Gene: Hannabella_42 Start: 48505, Stop: 48849, Start Num: 3

Candidate Starts for Hannabella_42:

(1, 48286), (Start: 2 @48502 has 1 MA's), (Start: 3 @48505 has 4 MA's), (4, 48538), (5, 48673), (6, 48676), (8, 48718), (9, 48760), (10, 48787), (11, 48805),

Gene: Scruffy_42 Start: 48790, Stop: 49134, Start Num: 3

Candidate Starts for Scruffy_42:

(Start: 2 @48787 has 1 MA's), (Start: 3 @48790 has 4 MA's), (4, 48823), (5, 48958), (6, 48961), (8, 49003), (9, 49045), (10, 49072), (11, 49090),