



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 87063 Report

This analysis was run 03/30/24 on database version 556.

Pham number 87063 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Astro_62, Dixon_61, Roary_63, Groundhog_61, NearlyHeadless_62, Danforth_62, Saintus_57
- Track 2 : Smeadley_62, Expelliarmus_59
- Track 3 : Phillis_59, Stephig9_61
- Track 4 : AinMach_62
- Track 5 : Reedo_55
- Track 6 : CallinAllBarbz_55
- Track 7 : BaileyBlu_53

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 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Astro_62, Danforth_62, Dixon_61, Expelliarmus_59, Groundhog_61, NearlyHeadless_62, Phillis_59, Roary_63, Saintus_57, Smeadley_62, Stephig9_61,

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

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

- AinMach_62, BaileyBlu_53, CallinAllBarbz_55, Reedo_55,

Summary by start number:

Start 3:

- Found in 11 of 15 (73.3%) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro_62 (A8), Danforth_62 (A8), Dixon_61 (A8), Expelliarmus_59 (A8), Groundhog_61 (A8), NearlyHeadless_62 (A8), Phillis_59 (A8), Roary_63 (A8), Saintus_57 (A8), Smeadley_62 (A8), Stephig9_61 (A8),

Start 4:

- Found in 1 of 15 (6.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AinMach_62 (AZ),

Start 5:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reedo_55 (AZ1),

Start 6:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaileyBlu_53 (FP), CallinAllBarbz_55 (FP),

Summary by clusters:

There are 4 clusters represented in this pham: FP, A8, AZ, AZ1,

Info for manual annotations of cluster A8:

- Start number 3 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster AZ1:

- Start number 5 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster FP:

- Start number 6 was manually annotated 2 times for cluster FP.

Gene Information:

Gene: AinMach_62 Start: 40089, Stop: 40457, Start Num: 4

Candidate Starts for AinMach_62:

(4, 40089), (7, 40275),

Gene: Astro_62 Start: 38856, Stop: 38527, Start Num: 3

Candidate Starts for Astro_62:

(Start: 3 @38856 has 11 MA's),

Gene: BaileyBlu_53 Start: 37571, Stop: 37900, Start Num: 6

Candidate Starts for BaileyBlu_53:

(1, 37169), (2, 37241), (Start: 6 @37571 has 2 MA's),

Gene: CallinAllBarbz_55 Start: 38560, Stop: 38886, Start Num: 6

Candidate Starts for CallinAllBarbz_55:

(1, 38155), (2, 38227), (Start: 6 @38560 has 2 MA's), (8, 38746),

Gene: Danforth_62 Start: 38919, Stop: 38590, Start Num: 3
Candidate Starts for Danforth_62:
(Start: 3 @38919 has 11 MA's),

Gene: Dixon_61 Start: 38439, Stop: 38110, Start Num: 3
Candidate Starts for Dixon_61:
(Start: 3 @38439 has 11 MA's),

Gene: Expelliarmus_59 Start: 38643, Stop: 38314, Start Num: 3
Candidate Starts for Expelliarmus_59:
(Start: 3 @38643 has 11 MA's),

Gene: Groundhog_61 Start: 38834, Stop: 38505, Start Num: 3
Candidate Starts for Groundhog_61:
(Start: 3 @38834 has 11 MA's),

Gene: NearlyHeadless_62 Start: 38685, Stop: 38356, Start Num: 3
Candidate Starts for NearlyHeadless_62:
(Start: 3 @38685 has 11 MA's),

Gene: Phillis_59 Start: 38163, Stop: 37825, Start Num: 3
Candidate Starts for Phillis_59:
(Start: 3 @38163 has 11 MA's), (10, 37830),

Gene: Reedo_55 Start: 36416, Stop: 36712, Start Num: 5
Candidate Starts for Reedo_55:
(Start: 5 @36416 has 1 MA's), (9, 36638),

Gene: Roary_63 Start: 38904, Stop: 38575, Start Num: 3
Candidate Starts for Roary_63:
(Start: 3 @38904 has 11 MA's),

Gene: Saintus_57 Start: 35569, Stop: 35240, Start Num: 3
Candidate Starts for Saintus_57:
(Start: 3 @35569 has 11 MA's),

Gene: Smeadley_62 Start: 38765, Stop: 38436, Start Num: 3
Candidate Starts for Smeadley_62:
(Start: 3 @38765 has 11 MA's),

Gene: Stephig9_61 Start: 38726, Stop: 38388, Start Num: 3
Candidate Starts for Stephig9_61:
(Start: 3 @38726 has 11 MA's), (10, 38393),