



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 106615 Report

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

Pham number 106615 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Dynamite_83, Mooshroom_83, GoCrazy_80, NapoleonB_84, Kardesai_83
- Track 2 : Elsa_83, Nason_83, Mudcat_79, Arcadia_83, JEGGS_82, Heisenberger_82
- Track 3 : Correa_81
- Track 4 : Hankly_83
- Track 5 : Cheesy_84, BenitoAntonio_83
- Track 6 : KeaneyLin_80
- Track 7 : Circum_83
- Track 8 : Tribby_85
- Track 9 : Benllo_83
- Track 10 : Xenomorph_78

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 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_83, BenitoAntonio_83, Benllo_83, Cheesy_84, Correa_81, Dynamite_83, Elsa_83, GoCrazy_80, Hankly_83, Heisenberger_82, JEGGS_82, Kardesai_83, KeaneyLin_80, Mooshroom_83, Mudcat_79, NapoleonB_84, Nason_83, Tribby_85,

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

- Circum_83, Xenomorph_78,

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

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Summary by start number:

Start 1:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Circum_83 (AM),

Start 3:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 18
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Arcadia_83 (AM), BenitoAntonio_83 (AM), Benllo_83 (AM), Cheesy_84 (AM), Correa_81 (AM), Dynamite_83 (AM), Elsa_83 (AM), GoCrazy_80 (AM), Hankly_83 (AM), Heisenberger_82 (AM), JEGGS_82 (AM), Kardesai_83 (AM), KeaneyLin_80 (AM), Mooshroom_83 (AM), Mudcat_79 (AM), NapoleonB_84 (AM), Nason_83 (AM), Tribby_85 (AM),

Start 5:

- Found in 19 of 20 (95.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Xenomorph_78 (AM),

Summary by clusters:

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:

- Start number 1 was manually annotated 1 time for cluster AM.
- Start number 3 was manually annotated 16 times for cluster AM.
- Start number 5 was manually annotated 1 time for cluster AM.

Gene Information:

Gene: Arcadia_83 Start: 49647, Stop: 49868, Start Num: 3

Candidate Starts for Arcadia_83:

(2, 49632), (Start: 3 @49647 has 16 MA's), (4, 49683), (Start: 5 @49686 has 1 MA's), (6, 49779), (7, 49827),

Gene: BenitoAntonio_83 Start: 49224, Stop: 49445, Start Num: 3

Candidate Starts for BenitoAntonio_83:

(2, 49209), (Start: 3 @49224 has 16 MA's), (4, 49260), (Start: 5 @49263 has 1 MA's), (6, 49356),

Gene: Benllo_83 Start: 49541, Stop: 49762, Start Num: 3

Candidate Starts for Benllo_83:

(Start: 1 @49511 has 1 MA's), (Start: 3 @49541 has 16 MA's), (4, 49577), (Start: 5 @49580 has 1 MA's), (6, 49673),

Gene: Cheesy_84 Start: 49439, Stop: 49657, Start Num: 3

Candidate Starts for Cheesy_84:

(2, 49424), (Start: 3 @49439 has 16 MA's), (4, 49475), (Start: 5 @49478 has 1 MA's), (6, 49571),

Gene: Circum_83 Start: 49465, Stop: 49716, Start Num: 1

Candidate Starts for Circum_83:

(Start: 1 @49465 has 1 MA's), (Start: 3 @49495 has 16 MA's), (4, 49531), (Start: 5 @49534 has 1 MA's), (6, 49627),

Gene: Correa_81 Start: 48951, Stop: 49166, Start Num: 3

Candidate Starts for Correa_81:

(Start: 3 @48951 has 16 MA's), (6, 49083),

Gene: Dynamite_83 Start: 49015, Stop: 49233, Start Num: 3

Candidate Starts for Dynamite_83:

(Start: 3 @49015 has 16 MA's), (4, 49051), (Start: 5 @49054 has 1 MA's), (6, 49147),

Gene: Elsa_83 Start: 49647, Stop: 49868, Start Num: 3

Candidate Starts for Elsa_83:

(2, 49632), (Start: 3 @49647 has 16 MA's), (4, 49683), (Start: 5 @49686 has 1 MA's), (6, 49779), (7, 49827),

Gene: GoCrazy_80 Start: 48275, Stop: 48496, Start Num: 3

Candidate Starts for GoCrazy_80:

(Start: 3 @48275 has 16 MA's), (4, 48311), (Start: 5 @48314 has 1 MA's), (6, 48407),

Gene: Hankly_83 Start: 48653, Stop: 48874, Start Num: 3

Candidate Starts for Hankly_83:

(Start: 3 @48653 has 16 MA's), (4, 48689), (Start: 5 @48692 has 1 MA's), (6, 48785), (7, 48833),

Gene: Heisenberger_82 Start: 48904, Stop: 49125, Start Num: 3

Candidate Starts for Heisenberger_82:

(2, 48889), (Start: 3 @48904 has 16 MA's), (4, 48940), (Start: 5 @48943 has 1 MA's), (6, 49036), (7, 49084),

Gene: JEGGS_82 Start: 48983, Stop: 49204, Start Num: 3

Candidate Starts for JEGGS_82:

(2, 48968), (Start: 3 @48983 has 16 MA's), (4, 49019), (Start: 5 @49022 has 1 MA's), (6, 49115), (7, 49163),

Gene: Kardesai_83 Start: 48589, Stop: 48810, Start Num: 3

Candidate Starts for Kardesai_83:

(Start: 3 @48589 has 16 MA's), (4, 48625), (Start: 5 @48628 has 1 MA's), (6, 48721),

Gene: KeaneyLin_80 Start: 48718, Stop: 48939, Start Num: 3

Candidate Starts for KeaneyLin_80:

(2, 48703), (Start: 3 @48718 has 16 MA's), (Start: 5 @48757 has 1 MA's), (6, 48850), (7, 48898),

Gene: Mooshroom_83 Start: 48589, Stop: 48810, Start Num: 3

Candidate Starts for Mooshroom_83:

(Start: 3 @48589 has 16 MA's), (4, 48625), (Start: 5 @48628 has 1 MA's), (6, 48721),

Gene: Mudcat_79 Start: 50341, Stop: 50562, Start Num: 3

Candidate Starts for Mudcat_79:

(2, 50326), (Start: 3 @50341 has 16 MA's), (4, 50377), (Start: 5 @50380 has 1 MA's), (6, 50473), (7, 50521),

Gene: NapoleonB_84 Start: 49015, Stop: 49233, Start Num: 3

Candidate Starts for NapoleonB_84:

(Start: 3 @49015 has 16 MA's), (4, 49051), (Start: 5 @49054 has 1 MA's), (6, 49147),

Gene: Nason_83 Start: 49647, Stop: 49868, Start Num: 3

Candidate Starts for Nason_83:

(2, 49632), (Start: 3 @49647 has 16 MA's), (4, 49683), (Start: 5 @49686 has 1 MA's), (6, 49779), (7, 49827),

Gene: Tribby_85 Start: 49773, Stop: 49994, Start Num: 3

Candidate Starts for Tribby_85:

(Start: 3 @49773 has 16 MA's), (Start: 5 @49812 has 1 MA's), (6, 49905),

Gene: Xenomorph_78 Start: 49339, Stop: 49521, Start Num: 5

Candidate Starts for Xenomorph_78:

(Start: 3 @49300 has 16 MA's), (Start: 5 @49339 has 1 MA's), (6, 49432),