



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 106623 Report

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

Pham number 106623 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Correa_74, Cheesy_76, Tribby_79
- Track 2 : Dynamite_75, NapoleonB_76
- Track 3 : Mudcat_71, Heisenberger_74, JEGGS_74
- Track 4 : Elsa_75, Arcadia_75, Nason_75
- Track 5 : GoCrazy_72, Hankly_75, Kardesai_75, KeaneyLin_71, BenitoAntonio_74
- Track 6 : Circum_77
- Track 7 : Benllo_76
- Track 8 : Mooshroom_75
- Track 9 : Xenomorph_72

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 1, it was called in 18 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_75, BenitoAntonio_74, Benllo_76, Cheesy_76, Circum_77, Correa_74, Dynamite_75, Elsa_75, GoCrazy_72, Hankly_75, Heisenberger_74, JEGGS_74, Kardesai_75, KeaneyLin_71, Mudcat_71, NapoleonB_76, Nason_75, Tribby_79, Xenomorph_72,

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

- Mooshroom_75,

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

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Summary by start number:

Start 1:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 18
- Called 95.0% of time when present

- Phage (with cluster) where this start called: Arcadia_75 (AM), BenitoAntonio_74 (AM), Benllo_76 (AM), Cheesy_76 (AM), Circum_77 (AM), Correa_74 (AM), Dynamite_75 (AM), Elsa_75 (AM), GoCrazy_72 (AM), Hankly_75 (AM), Heisenberger_74 (AM), JEGGS_74 (AM), Kardesai_75 (AM), KeaneyLin_71 (AM), Mudcat_71 (AM), NapoleonB_76 (AM), Nason_75 (AM), Tribby_79 (AM), Xenomorph_72 (AM),

Start 5:

- Found in 9 of 20 (45.0%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Mooshroom_75 (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 18 times for cluster AM.

Gene Information:

Gene: Arcadia_75 Start: 45333, Stop: 45599, Start Num: 1

Candidate Starts for Arcadia_75:

(Start: 1 @45333 has 18 MA's), (3, 45381), (4, 45384), (6, 45408), (8, 45495), (10, 45567),

Gene: BenitoAntonio_74 Start: 44974, Stop: 45246, Start Num: 1

Candidate Starts for BenitoAntonio_74:

(Start: 1 @44974 has 18 MA's), (4, 45025), (5, 45034), (8, 45136), (10, 45208),

Gene: Benllo_76 Start: 45652, Stop: 45924, Start Num: 1

Candidate Starts for Benllo_76:

(Start: 1 @45652 has 18 MA's), (4, 45703), (6, 45727), (8, 45814),

Gene: Cheesy_76 Start: 45125, Stop: 45391, Start Num: 1

Candidate Starts for Cheesy_76:

(Start: 1 @45125 has 18 MA's), (4, 45176), (6, 45200), (8, 45287), (9, 45329), (10, 45359),

Gene: Circum_77 Start: 45742, Stop: 46014, Start Num: 1

Candidate Starts for Circum_77:

(Start: 1 @45742 has 18 MA's), (3, 45790), (4, 45793), (6, 45817), (7, 45820), (8, 45904),

Gene: Correa_74 Start: 44699, Stop: 44965, Start Num: 1

Candidate Starts for Correa_74:

(Start: 1 @44699 has 18 MA's), (4, 44750), (6, 44774), (8, 44861), (9, 44903), (10, 44933),

Gene: Dynamite_75 Start: 45185, Stop: 45451, Start Num: 1

Candidate Starts for Dynamite_75:

(Start: 1 @45185 has 18 MA's), (3, 45233), (4, 45236), (6, 45260), (8, 45347), (9, 45389), (10, 45419),

Gene: Elsa_75 Start: 45333, Stop: 45599, Start Num: 1

Candidate Starts for Elsa_75:

(Start: 1 @45333 has 18 MA's), (3, 45381), (4, 45384), (6, 45408), (8, 45495), (10, 45567),

Gene: GoCrazy_72 Start: 44629, Stop: 44901, Start Num: 1

Candidate Starts for GoCrazy_72:

(Start: 1 @44629 has 18 MA's), (4, 44680), (5, 44689), (8, 44791), (10, 44863),

Gene: Hankly_75 Start: 44823, Stop: 45089, Start Num: 1

Candidate Starts for Hankly_75:

(Start: 1 @44823 has 18 MA's), (4, 44874), (5, 44883), (8, 44985), (10, 45057),

Gene: Heisenberger_74 Start: 44591, Stop: 44863, Start Num: 1

Candidate Starts for Heisenberger_74:

(Start: 1 @44591 has 18 MA's), (4, 44642), (5, 44651), (8, 44753),

Gene: JEGGS_74 Start: 44670, Stop: 44942, Start Num: 1

Candidate Starts for JEGGS_74:

(Start: 1 @44670 has 18 MA's), (4, 44721), (5, 44730), (8, 44832),

Gene: Kardesai_75 Start: 44943, Stop: 45215, Start Num: 1

Candidate Starts for Kardesai_75:

(Start: 1 @44943 has 18 MA's), (4, 44994), (5, 45003), (8, 45105), (10, 45177),

Gene: KeaneyLin_71 Start: 44629, Stop: 44901, Start Num: 1

Candidate Starts for KeaneyLin_71:

(Start: 1 @44629 has 18 MA's), (4, 44680), (5, 44689), (8, 44791), (10, 44863),

Gene: Mooshroom_75 Start: 45003, Stop: 45215, Start Num: 5

Candidate Starts for Mooshroom_75:

(Start: 1 @44943 has 18 MA's), (4, 44994), (5, 45003), (8, 45105), (10, 45177),

Gene: Mudcat_71 Start: 46028, Stop: 46300, Start Num: 1

Candidate Starts for Mudcat_71:

(Start: 1 @46028 has 18 MA's), (4, 46079), (5, 46088), (8, 46190),

Gene: NapoleonB_76 Start: 45185, Stop: 45451, Start Num: 1

Candidate Starts for NapoleonB_76:

(Start: 1 @45185 has 18 MA's), (3, 45233), (4, 45236), (6, 45260), (8, 45347), (9, 45389), (10, 45419),

Gene: Nason_75 Start: 45333, Stop: 45599, Start Num: 1

Candidate Starts for Nason_75:

(Start: 1 @45333 has 18 MA's), (3, 45381), (4, 45384), (6, 45408), (8, 45495), (10, 45567),

Gene: Tribby_79 Start: 46085, Stop: 46351, Start Num: 1

Candidate Starts for Tribby_79:

(Start: 1 @46085 has 18 MA's), (4, 46136), (6, 46160), (8, 46247), (9, 46289), (10, 46319),

Gene: Xenomorph_72 Start: 45612, Stop: 45878, Start Num: 1

Candidate Starts for Xenomorph_72:

(Start: 1 @45612 has 18 MA's), (2, 45654), (4, 45663), (6, 45687), (8, 45774), (9, 45816), (10, 45846),