



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 311996 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311996 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Stardom_73, Mooshroom_74, Bowling_75, JEGGS_72, Dynamite_73, Hankly_73, Heisenberger_72, Circum_75, BenitoAntonio_72, GoCrazy_70, KeaneyLin_69, Mudcat_69, Kardesai_73, YoshiYama_75, NapoleonB_74
- Track 2 : Cheesy_74, Correa_72, Nason_73, Elsa_73, Arcadia_73, Tribby_77
- Track 3 : Benllo_71
- Track 4 : Xenomorph_70

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

The start number called the most often in the published annotations is 4, it was called in 14 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BenitoAntonio_72, Benllo_71, Bowling_75, Circum_75, Dynamite_73, GoCrazy_70, Hankly_73, Heisenberger_72, JEGGS_72, Kardesai_73, KeaneyLin_69, Mooshroom_74, Mudcat_69, NapoleonB_74, Stardom_73, YoshiYama_75,

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:

- Arcadia_73, Cheesy_74, Correa_72, Elsa_73, Nason_73, Tribby_77, Xenomorph_70,

Summary by start number:

Start 4:

- Found in 16 of 23 (69.6%) of genes in pham
- Manual Annotations of this start: 14 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BenitoAntonio_72 (AM), Benllo_71 (AM), Bowling_75 (AM), Circum_75 (AM), Dynamite_73 (AM), GoCrazy_70 (AM), Hankly_73 (AM), Heisenberger_72 (AM), JEGGS_72 (AM), Kardesai_73 (AM), KeaneyLin_69 (AM), Mooshroom_74 (AM), Mudcat_69 (AM), NapoleonB_74 (AM),

Stardom_73 (AM), YoshiYama_75 (AM),

Start 5:

- Found in 7 of 23 (30.4%) of genes in pham
- Manual Annotations of this start: 7 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_73 (AM), Cheesy_74 (AM), Correa_72 (AM), Elsa_73 (AM), Nason_73 (AM), Tribby_77 (AM), Xenomorph_70 (AM),

Summary by clusters:

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:

- Start number 4 was manually annotated 14 times for cluster AM.
- Start number 5 was manually annotated 7 times for cluster AM.

Gene Information:

Gene: Arcadia_73 Start: 44784, Stop: 45098, Start Num: 5

Candidate Starts for Arcadia_73:

(1, 44766), (2, 44769), (3, 44775), (Start: 5 @44784 has 7 MA's), (6, 44787), (7, 44793), (9, 44877), (10, 44916), (12, 45009),

Gene: BenitoAntonio_72 Start: 44425, Stop: 44739, Start Num: 4

Candidate Starts for BenitoAntonio_72:

(Start: 4 @44425 has 14 MA's), (8, 44506), (10, 44557), (11, 44599), (12, 44650),

Gene: Benllo_71 Start: 45103, Stop: 45417, Start Num: 4

Candidate Starts for Benllo_71:

(Start: 4 @45103 has 14 MA's), (8, 45184), (10, 45235), (11, 45277),

Gene: Bowling_75 Start: 45379, Stop: 45693, Start Num: 4

Candidate Starts for Bowling_75:

(Start: 4 @45379 has 14 MA's), (8, 45460), (10, 45511), (11, 45553), (12, 45604),

Gene: Cheesy_74 Start: 44577, Stop: 44891, Start Num: 5

Candidate Starts for Cheesy_74:

(1, 44559), (2, 44562), (3, 44568), (Start: 5 @44577 has 7 MA's), (6, 44580), (7, 44586), (9, 44670), (10, 44709), (12, 44802),

Gene: Circum_75 Start: 45193, Stop: 45507, Start Num: 4

Candidate Starts for Circum_75:

(Start: 4 @45193 has 14 MA's), (8, 45274), (10, 45325), (11, 45367), (12, 45418),

Gene: Correa_72 Start: 44151, Stop: 44465, Start Num: 5

Candidate Starts for Correa_72:

(1, 44133), (2, 44136), (3, 44142), (Start: 5 @44151 has 7 MA's), (6, 44154), (7, 44160), (9, 44244), (10, 44283), (12, 44376),

Gene: Dynamite_73 Start: 44636, Stop: 44950, Start Num: 4
Candidate Starts for Dynamite_73:
(Start: 4 @44636 has 14 MA's), (8, 44717), (10, 44768), (11, 44810), (12, 44861),

Gene: Elsa_73 Start: 44784, Stop: 45098, Start Num: 5
Candidate Starts for Elsa_73:
(1, 44766), (2, 44769), (3, 44775), (Start: 5 @44784 has 7 MA's), (6, 44787), (7, 44793), (9, 44877),
(10, 44916), (12, 45009),

Gene: GoCrazy_70 Start: 44080, Stop: 44394, Start Num: 4
Candidate Starts for GoCrazy_70:
(Start: 4 @44080 has 14 MA's), (8, 44161), (10, 44212), (11, 44254), (12, 44305),

Gene: Hankly_73 Start: 44274, Stop: 44588, Start Num: 4
Candidate Starts for Hankly_73:
(Start: 4 @44274 has 14 MA's), (8, 44355), (10, 44406), (11, 44448), (12, 44499),

Gene: Heisenberger_72 Start: 44042, Stop: 44356, Start Num: 4
Candidate Starts for Heisenberger_72:
(Start: 4 @44042 has 14 MA's), (8, 44123), (10, 44174), (11, 44216), (12, 44267),

Gene: JEGGS_72 Start: 44121, Stop: 44435, Start Num: 4
Candidate Starts for JEGGS_72:
(Start: 4 @44121 has 14 MA's), (8, 44202), (10, 44253), (11, 44295), (12, 44346),

Gene: Kardesai_73 Start: 44394, Stop: 44708, Start Num: 4
Candidate Starts for Kardesai_73:
(Start: 4 @44394 has 14 MA's), (8, 44475), (10, 44526), (11, 44568), (12, 44619),

Gene: KeaneyLin_69 Start: 44080, Stop: 44394, Start Num: 4
Candidate Starts for KeaneyLin_69:
(Start: 4 @44080 has 14 MA's), (8, 44161), (10, 44212), (11, 44254), (12, 44305),

Gene: Mooshroom_74 Start: 44394, Stop: 44708, Start Num: 4
Candidate Starts for Mooshroom_74:
(Start: 4 @44394 has 14 MA's), (8, 44475), (10, 44526), (11, 44568), (12, 44619),

Gene: Mudcat_69 Start: 45479, Stop: 45793, Start Num: 4
Candidate Starts for Mudcat_69:
(Start: 4 @45479 has 14 MA's), (8, 45560), (10, 45611), (11, 45653), (12, 45704),

Gene: NapoleonB_74 Start: 44636, Stop: 44950, Start Num: 4
Candidate Starts for NapoleonB_74:
(Start: 4 @44636 has 14 MA's), (8, 44717), (10, 44768), (11, 44810), (12, 44861),

Gene: Nason_73 Start: 44784, Stop: 45098, Start Num: 5
Candidate Starts for Nason_73:
(1, 44766), (2, 44769), (3, 44775), (Start: 5 @44784 has 7 MA's), (6, 44787), (7, 44793), (9, 44877),
(10, 44916), (12, 45009),

Gene: Stardom_73 Start: 43987, Stop: 44301, Start Num: 4
Candidate Starts for Stardom_73:
(Start: 4 @43987 has 14 MA's), (8, 44068), (10, 44119), (11, 44161), (12, 44212),

Gene: Tribby_77 Start: 45537, Stop: 45851, Start Num: 5

Candidate Starts for Tribby_77:

(1, 45519), (2, 45522), (3, 45528), (Start: 5 @45537 has 7 MA's), (6, 45540), (7, 45546), (9, 45630), (10, 45669), (12, 45762),

Gene: Xenomorph_70 Start: 45063, Stop: 45377, Start Num: 5

Candidate Starts for Xenomorph_70:

(1, 45045), (2, 45048), (3, 45054), (Start: 5 @45063 has 7 MA's), (6, 45066), (7, 45072), (10, 45195), (12, 45288),

Gene: YoshiYama_75 Start: 45633, Stop: 45947, Start Num: 4

Candidate Starts for YoshiYama_75:

(Start: 4 @45633 has 14 MA's), (8, 45714), (10, 45765), (11, 45807), (12, 45858),