



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 282468 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282468 has 22 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Elsa_47, Arcadia_47, Nason_47, YoshiYama_47, Mudcat_44, JEGGS_46, Heisenberger_46, Circum_49
- Track 2 : Xenomorph_43
- Track 3 : KeaneyLin_46, GoCrazy_46, Mooshroom_49, Kardesai_48, Benllo_47, Hankly_46, BenitoAntonio_47
- Track 4 : Tribby_47, Correa_45
- Track 5 : NapoleonB_47, Bowling_47, Dynamite_47
- Track 6 : Cheesy_47

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 19 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_47, BenitoAntonio_47, Benllo_47, Bowling_47, Circum_49, Correa_45, Dynamite_47, Elsa_47, GoCrazy_46, Hankly_46, Heisenberger_46, JEGGS_46, Kardesai_48, KeaneyLin_46, Mooshroom_49, Mudcat_44, NapoleonB_47, Nason_47, Tribby_47, Xenomorph_43, YoshiYama_47,

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:

- Cheesy_47,

Summary by start number:

Start 2:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cheesy_47 (AM),

Start 4:

- Found in 21 of 22 (95.5%) of genes in pham
- Manual Annotations of this start: 19 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_47 (AM), BenitoAntonio_47 (AM), Benllo_47 (AM), Bowling_47 (AM), Circum_49 (AM), Correa_45 (AM), Dynamite_47 (AM), Elsa_47 (AM), GoCrazy_46 (AM), Hankly_46 (AM), Heisenberger_46 (AM), JEGGS_46 (AM), Kardesai_48 (AM), KeaneyLin_46 (AM), Mooshroom_49 (AM), Mudcat_44 (AM), NapoleonB_47 (AM), Nason_47 (AM), Tribby_47 (AM), Xenomorph_43 (AM), YoshiYama_47 (AM),

Summary by clusters:

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:

- Start number 2 was manually annotated 1 time for cluster AM.
- Start number 4 was manually annotated 19 times for cluster AM.

Gene Information:

Gene: Arcadia_47 Start: 31488, Stop: 31844, Start Num: 4

Candidate Starts for Arcadia_47:

(3, 31473), (Start: 4 @31488 has 19 MA's), (6, 31575), (7, 31611), (8, 31707), (10, 31740), (11, 31761),

Gene: BenitoAntonio_47 Start: 31051, Stop: 31407, Start Num: 4

Candidate Starts for BenitoAntonio_47:

(Start: 4 @31051 has 19 MA's), (6, 31138), (7, 31174), (11, 31324),

Gene: Benllo_47 Start: 31735, Stop: 32091, Start Num: 4

Candidate Starts for Benllo_47:

(Start: 4 @31735 has 19 MA's), (6, 31822), (7, 31858), (11, 32008),

Gene: Bowling_47 Start: 31260, Stop: 31616, Start Num: 4

Candidate Starts for Bowling_47:

(3, 31245), (Start: 4 @31260 has 19 MA's), (6, 31347), (7, 31383), (11, 31533),

Gene: Cheesy_47 Start: 31170, Stop: 31592, Start Num: 2

Candidate Starts for Cheesy_47:

(1, 31155), (Start: 2 @31170 has 1 MA's), (7, 31359), (8, 31455), (9, 31458), (11, 31509),

Gene: Circum_49 Start: 31899, Stop: 32255, Start Num: 4

Candidate Starts for Circum_49:

(3, 31884), (Start: 4 @31899 has 19 MA's), (6, 31986), (7, 32022), (8, 32118), (10, 32151), (11, 32172),

Gene: Correa_45 Start: 30356, Stop: 30712, Start Num: 4

Candidate Starts for Correa_45:

(Start: 4 @30356 has 19 MA's), (5, 30404), (7, 30479), (8, 30575), (9, 30578), (11, 30629),

Gene: Dynamite_47 Start: 31451, Stop: 31807, Start Num: 4

Candidate Starts for Dynamite_47:

(3, 31436), (Start: 4 @31451 has 19 MA's), (6, 31538), (7, 31574), (11, 31724),

Gene: Elsa_47 Start: 31488, Stop: 31844, Start Num: 4

Candidate Starts for Elsa_47:

(3, 31473), (Start: 4 @31488 has 19 MA's), (6, 31575), (7, 31611), (8, 31707), (10, 31740), (11, 31761),

Gene: GoCrazy_46 Start: 31363, Stop: 31719, Start Num: 4

Candidate Starts for GoCrazy_46:

(Start: 4 @31363 has 19 MA's), (6, 31450), (7, 31486), (11, 31636),

Gene: Hankly_46 Start: 30664, Stop: 31020, Start Num: 4

Candidate Starts for Hankly_46:

(Start: 4 @30664 has 19 MA's), (6, 30751), (7, 30787), (11, 30937),

Gene: Heisenberger_46 Start: 30928, Stop: 31284, Start Num: 4

Candidate Starts for Heisenberger_46:

(3, 30913), (Start: 4 @30928 has 19 MA's), (6, 31015), (7, 31051), (8, 31147), (10, 31180), (11, 31201),

Gene: JEGGS_46 Start: 30982, Stop: 31338, Start Num: 4

Candidate Starts for JEGGS_46:

(3, 30967), (Start: 4 @30982 has 19 MA's), (6, 31069), (7, 31105), (8, 31201), (10, 31234), (11, 31255),

Gene: Kardesai_48 Start: 31635, Stop: 31991, Start Num: 4

Candidate Starts for Kardesai_48:

(Start: 4 @31635 has 19 MA's), (6, 31722), (7, 31758), (11, 31908),

Gene: KeaneyLin_46 Start: 31363, Stop: 31719, Start Num: 4

Candidate Starts for KeaneyLin_46:

(Start: 4 @31363 has 19 MA's), (6, 31450), (7, 31486), (11, 31636),

Gene: Mooshroom_49 Start: 31635, Stop: 31991, Start Num: 4

Candidate Starts for Mooshroom_49:

(Start: 4 @31635 has 19 MA's), (6, 31722), (7, 31758), (11, 31908),

Gene: Mudcat_44 Start: 32341, Stop: 32697, Start Num: 4

Candidate Starts for Mudcat_44:

(3, 32326), (Start: 4 @32341 has 19 MA's), (6, 32428), (7, 32464), (8, 32560), (10, 32593), (11, 32614),

Gene: NapoleonB_47 Start: 31451, Stop: 31807, Start Num: 4

Candidate Starts for NapoleonB_47:

(3, 31436), (Start: 4 @31451 has 19 MA's), (6, 31538), (7, 31574), (11, 31724),

Gene: Nason_47 Start: 31488, Stop: 31844, Start Num: 4

Candidate Starts for Nason_47:

(3, 31473), (Start: 4 @31488 has 19 MA's), (6, 31575), (7, 31611), (8, 31707), (10, 31740), (11, 31761),

Gene: Tribby_47 Start: 31189, Stop: 31545, Start Num: 4

Candidate Starts for Tribby_47:

(Start: 4 @31189 has 19 MA's), (5, 31237), (7, 31312), (8, 31408), (9, 31411), (11, 31462),

Gene: Xenomorph_43 Start: 30900, Stop: 31256, Start Num: 4

Candidate Starts for Xenomorph_43:

(Start: 4 @30900 has 19 MA's), (7, 31023), (8, 31119), (11, 31173),

Gene: YoshiYama_47 Start: 31483, Stop: 31839, Start Num: 4

Candidate Starts for YoshiYama_47:

(3, 31468), (Start: 4 @31483 has 19 MA's), (6, 31570), (7, 31606), (8, 31702), (10, 31735), (11, 31756),