



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 163927 Report

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

Pham number 163927 has 21 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Gruunaga_78, Blue7_80, Helmet_80, Zulu_80, Garak_80, Lilbunny_76, Tucker_79, ToneTone_76, Rifter_79, Wiks_78, CloudWang3_79, Yokurt_78, Indra_82, WunderPhul_79, Zaka_79
- Track 2 : Koko_80, Roksolana_79, Hexamo_78, Artemis2UCLA_78
- Track 3 : Gladiator_76, Hammer_79

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

The start number called the most often in the published annotations is 2, it was called in 16 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artemis2UCLA_78, Blue7_80, CloudWang3_79, Garak_80, Gruunaga_78, Helmet_80, Hexamo_78, Indra_82, Koko_80, Lilbunny_76, Rifter_79, Roksolana_79, ToneTone_76, Tucker_79, Wiks_78, WunderPhul_79, Yokurt_78, Zaka_79, Zulu_80,

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

- Gladiator_76, Hammer_79,

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

-

Summary by start number:

Start 1:

- Found in 17 of 21 (81.0%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Gladiator_76 (A6), Hammer_79 (A6),

Start 2:

- Found in 21 of 21 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 18
- Called 90.5% of time when present

- Phage (with cluster) where this start called: Artemis2UCLA_78 (A6), Blue7_80 (A6), CloudWang3_79 (A6), Garak_80 (A6), Gruunaga_78 (A6), Helmet_80 (A6), Hexamo_78 (A6), Indra_82 (A6), Koko_80 (A6), Lilbunny_76 (A6), Rifter_79 (A6), Roksolana_79 (A6), ToneTone_76 (A6), Tucker_79 (A6), Wiks_78 (A6), WunderPhul_79 (A6), Yokurt_78 (A6), Zaka_79 (A6), Zulu_80 (A6),

Summary by clusters:

There is one cluster represented in this pham: A6

Info for manual annotations of cluster A6:

- Start number 1 was manually annotated 2 times for cluster A6.
- Start number 2 was manually annotated 16 times for cluster A6.

Gene Information:

Gene: Artemis2UCLA_78 Start: 44266, Stop: 44114, Start Num: 2

Candidate Starts for Artemis2UCLA_78:

(Start: 2 @44266 has 16 MA's), (3, 44260), (4, 44251), (5, 44224),

Gene: Blue7_80 Start: 44486, Stop: 44334, Start Num: 2

Candidate Starts for Blue7_80:

(Start: 1 @44513 has 2 MA's), (Start: 2 @44486 has 16 MA's), (3, 44480), (4, 44471), (5, 44444),

Gene: CloudWang3_79 Start: 44778, Stop: 44626, Start Num: 2

Candidate Starts for CloudWang3_79:

(Start: 1 @44805 has 2 MA's), (Start: 2 @44778 has 16 MA's), (3, 44772), (4, 44763), (5, 44736),

Gene: Garak_80 Start: 44729, Stop: 44577, Start Num: 2

Candidate Starts for Garak_80:

(Start: 1 @44756 has 2 MA's), (Start: 2 @44729 has 16 MA's), (3, 44723), (4, 44714), (5, 44687),

Gene: Gladiator_76 Start: 44659, Stop: 44480, Start Num: 1

Candidate Starts for Gladiator_76:

(Start: 1 @44659 has 2 MA's), (Start: 2 @44632 has 16 MA's), (3, 44626), (4, 44617), (5, 44590),

Gene: Gruunaga_78 Start: 44587, Stop: 44435, Start Num: 2

Candidate Starts for Gruunaga_78:

(Start: 1 @44614 has 2 MA's), (Start: 2 @44587 has 16 MA's), (3, 44581), (4, 44572), (5, 44545),

Gene: Hammer_79 Start: 44321, Stop: 44142, Start Num: 1

Candidate Starts for Hammer_79:

(Start: 1 @44321 has 2 MA's), (Start: 2 @44294 has 16 MA's), (3, 44288), (4, 44279), (5, 44252),

Gene: Helmet_80 Start: 44729, Stop: 44577, Start Num: 2

Candidate Starts for Helmet_80:

(Start: 1 @44756 has 2 MA's), (Start: 2 @44729 has 16 MA's), (3, 44723), (4, 44714), (5, 44687),

Gene: Hexamo_78 Start: 44263, Stop: 44111, Start Num: 2

Candidate Starts for Hexamo_78:

(Start: 2 @44263 has 16 MA's), (3, 44257), (4, 44248), (5, 44221),

Gene: Indra_82 Start: 44730, Stop: 44578, Start Num: 2
Candidate Starts for Indra_82:
(Start: 1 @44757 has 2 MA's), (Start: 2 @44730 has 16 MA's), (3, 44724), (4, 44715), (5, 44688),

Gene: Koko_80 Start: 45118, Stop: 44966, Start Num: 2
Candidate Starts for Koko_80:
(Start: 2 @45118 has 16 MA's), (3, 45112), (4, 45103), (5, 45076),

Gene: Lilbunny_76 Start: 44361, Stop: 44209, Start Num: 2
Candidate Starts for Lilbunny_76:
(Start: 1 @44388 has 2 MA's), (Start: 2 @44361 has 16 MA's), (3, 44355), (4, 44346), (5, 44319),

Gene: Rifter_79 Start: 43891, Stop: 43739, Start Num: 2
Candidate Starts for Rifter_79:
(Start: 1 @43918 has 2 MA's), (Start: 2 @43891 has 16 MA's), (3, 43885), (4, 43876), (5, 43849),

Gene: Roksolana_79 Start: 44624, Stop: 44472, Start Num: 2
Candidate Starts for Roksolana_79:
(Start: 2 @44624 has 16 MA's), (3, 44618), (4, 44609), (5, 44582),

Gene: ToneTone_76 Start: 44289, Stop: 44137, Start Num: 2
Candidate Starts for ToneTone_76:
(Start: 1 @44316 has 2 MA's), (Start: 2 @44289 has 16 MA's), (3, 44283), (4, 44274), (5, 44247),

Gene: Tucker_79 Start: 44492, Stop: 44340, Start Num: 2
Candidate Starts for Tucker_79:
(Start: 1 @44519 has 2 MA's), (Start: 2 @44492 has 16 MA's), (3, 44486), (4, 44477), (5, 44450),

Gene: Wiks_78 Start: 44360, Stop: 44208, Start Num: 2
Candidate Starts for Wiks_78:
(Start: 1 @44387 has 2 MA's), (Start: 2 @44360 has 16 MA's), (3, 44354), (4, 44345), (5, 44318),

Gene: WunderPhul_79 Start: 44358, Stop: 44206, Start Num: 2
Candidate Starts for WunderPhul_79:
(Start: 1 @44385 has 2 MA's), (Start: 2 @44358 has 16 MA's), (3, 44352), (4, 44343), (5, 44316),

Gene: Yokurt_78 Start: 44360, Stop: 44208, Start Num: 2
Candidate Starts for Yokurt_78:
(Start: 1 @44387 has 2 MA's), (Start: 2 @44360 has 16 MA's), (3, 44354), (4, 44345), (5, 44318),

Gene: Zaka_79 Start: 44360, Stop: 44208, Start Num: 2
Candidate Starts for Zaka_79:
(Start: 1 @44387 has 2 MA's), (Start: 2 @44360 has 16 MA's), (3, 44354), (4, 44345), (5, 44318),

Gene: Zulu_80 Start: 44738, Stop: 44586, Start Num: 2
Candidate Starts for Zulu_80:
(Start: 1 @44765 has 2 MA's), (Start: 2 @44738 has 16 MA's), (3, 44732), (4, 44723), (5, 44696),