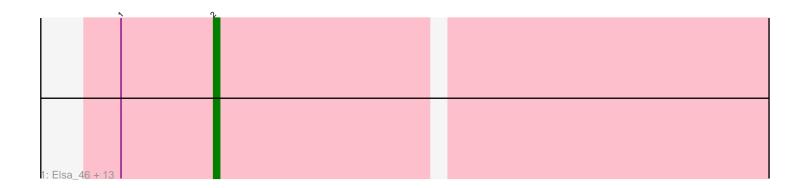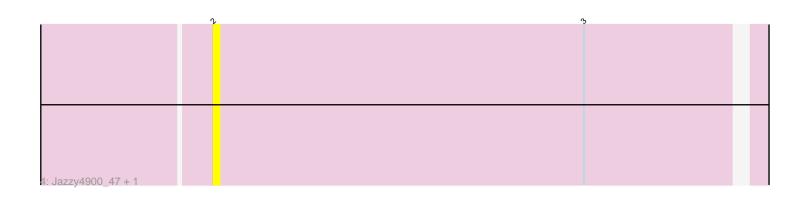# Pham 216535

1: Elsa_46 + 13

2: Mooshroom_48 + 1

3: Mudcat_43 + 4

4: Jazzy4900_47 + 1

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 216535 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216535 has 23 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Elsa_46, Xenomorph_42, KeaneyLin_45, Arcadia_46, Tribby_46, GoCrazy_45, NapoleonB_46, Cheesy_46, Kardesai_47, Nason_46, Correa_44, Benllo_46, Dynamite_46, Hankly_45
• Track 2 : Mooshroom_48, BenitoAntonio_46
• Track 3 : Mudcat_43, Bowling_45, JEGGS_45, Circum_48, Heisenberger_45
• Track 4 : Jazzy4900_47, Sunny4976_46

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

Genes that call this "Most Annotated" start:
• Arcadia_46, Benllo_46, Bowling_45, Cheesy_46, Circum_48, Correa_44, Dynamite_46, Elsa_46, GoCrazy_45, Hankly_45, Heisenberger_45, JEGGS_45, Jazzy4900_47, Kardesai_47, KeaneyLin_45, Mudcat_43, NapoleonB_46, Nason_46, Sunny4976_46, Tribby_46, Xenomorph_42,

Genes that have the "Most Annotated" start but do not call it:
• BenitoAntonio_46, Mooshroom_48,

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

Summary by start number:

Start 1:
• Found in 16 of 23 (69.6%) of genes in pham
• Manual Annotations of this start: 2 of 19
• Called 12.5% of time when present
• Phage (with cluster) where this start called: BenitoAntonio_46 (AM), Mooshroom_48 (AM),

Start 2:

• Found in 23 of 23 (100.0%) of genes in pham
• Manual Annotations of this start: 17 of 19
• Called 91.3% of time when present
• Phage (with cluster) where this start called: Arcadia_46 (AM), Benllo_46 (AM), Bowling_45 (AM), Cheesy_46 (AM), Circum_48 (AM), Correa_44 (AM), Dynamite_46 (AM), Elsa_46 (AM), GoCrazy_45 (AM), Hankly_45 (AM), Heisenberger_45 (AM), JEGGS_45 (AM), Jazzy4900_47 (FI), Kardesai_47 (AM), KeaneyLin_45 (AM), Mudcat_43 (AM), NapoleonB_46 (AM), Nason_46 (AM), Sunny4976_46 (FI), Tribby_46 (AM), Xenomorph_42 (AM),

Summary by clusters:

There are 2 clusters represented in this pham: FI, AM,

Info for manual annotations of cluster AM:
•Start number 1 was manually annotated 2 times for cluster AM.
•Start number 2 was manually annotated 17 times for cluster AM.

Gene Information:
Gene: Arcadia_46 Start: 31207, Stop: 31410, Start Num: 2
Candidate Starts for Arcadia_46:
(Start: 1 @31192 has 2 MA's), (Start: 2 @31207 has 17 MA's),

Gene: BenitoAntonio_46 Start: 30769, Stop: 30978, Start Num: 1
Candidate Starts for BenitoAntonio_46:
(Start: 1 @30769 has 2 MA's), (Start: 2 @30784 has 17 MA's),

Gene: Benllo_46 Start: 31468, Stop: 31662, Start Num: 2
Candidate Starts for Benllo_46:
(Start: 1 @31453 has 2 MA's), (Start: 2 @31468 has 17 MA's),

Gene: Bowling_45 Start: 30980, Stop: 31183, Start Num: 2
Candidate Starts for Bowling_45:
(Start: 2 @30980 has 17 MA's),

Gene: Cheesy_46 Start: 30905, Stop: 31099, Start Num: 2
Candidate Starts for Cheesy_46:
(Start: 1 @30890 has 2 MA's), (Start: 2 @30905 has 17 MA's),

Gene: Circum_48 Start: 31618, Stop: 31821, Start Num: 2
Candidate Starts for Circum_48:
(Start: 2 @31618 has 17 MA's),

Gene: Correa_44 Start: 30090, Stop: 30284, Start Num: 2
Candidate Starts for Correa_44:
(Start: 1 @30075 has 2 MA's), (Start: 2 @30090 has 17 MA's),

Gene: Dynamite_46 Start: 31170, Stop: 31373, Start Num: 2
Candidate Starts for Dynamite_46:

(Start: 1 @31155 has 2 MA's), (Start: 2 @31170 has 17 MA's),

Gene: Elsa_46 Start: 31207, Stop: 31410, Start Num: 2
Candidate Starts for Elsa_46:
(Start: 1 @31192 has 2 MA's), (Start: 2 @31207 has 17 MA's),

Gene: GoCrazy_45 Start: 31096, Stop: 31290, Start Num: 2
Candidate Starts for GoCrazy_45:
(Start: 1 @31081 has 2 MA's), (Start: 2 @31096 has 17 MA's),

Gene: Hankly_45 Start: 30397, Stop: 30591, Start Num: 2
Candidate Starts for Hankly_45:
(Start: 1 @30382 has 2 MA's), (Start: 2 @30397 has 17 MA's),

Gene: Heisenberger_45 Start: 30648, Stop: 30851, Start Num: 2
Candidate Starts for Heisenberger_45:
(Start: 2 @30648 has 17 MA's),

Gene: JEGGS_45 Start: 30702, Stop: 30905, Start Num: 2
Candidate Starts for JEGGS_45:
(Start: 2 @30702 has 17 MA's),

Gene: Jazzy4900_47 Start: 33250, Stop: 33444, Start Num: 2
Candidate Starts for Jazzy4900_47:
(Start: 2 @33250 has 17 MA's), (3, 33310),

Gene: Kardesai_47 Start: 31368, Stop: 31562, Start Num: 2
Candidate Starts for Kardesai_47:
(Start: 1 @31353 has 2 MA's), (Start: 2 @31368 has 17 MA's),

Gene: KeaneyLin_45 Start: 31096, Stop: 31290, Start Num: 2
Candidate Starts for KeaneyLin_45:
(Start: 1 @31081 has 2 MA's), (Start: 2 @31096 has 17 MA's),

Gene: Mooshroom_48 Start: 31353, Stop: 31562, Start Num: 1
Candidate Starts for Mooshroom_48:
(Start: 1 @31353 has 2 MA's), (Start: 2 @31368 has 17 MA's),

Gene: Mudcat_43 Start: 32061, Stop: 32264, Start Num: 2
Candidate Starts for Mudcat_43:
(Start: 2 @32061 has 17 MA's),

Gene: NapoleonB_46 Start: 31170, Stop: 31373, Start Num: 2
Candidate Starts for NapoleonB_46:
(Start: 1 @31155 has 2 MA's), (Start: 2 @31170 has 17 MA's),

Gene: Nason_46 Start: 31207, Stop: 31410, Start Num: 2
Candidate Starts for Nason_46:
(Start: 1 @31192 has 2 MA's), (Start: 2 @31207 has 17 MA's),

Gene: Sunny4976_46 Start: 33250, Stop: 33444, Start Num: 2
Candidate Starts for Sunny4976_46:
(Start: 2 @33250 has 17 MA's), (3, 33310),

Gene: Tribby_46 Start: 30923, Stop: 31117, Start Num: 2
Candidate Starts for Tribby_46:
(Start: 1 @30908 has 2 MA's), (Start: 2 @30923 has 17 MA's),

Gene: Xenomorph_42 Start: 30634, Stop: 30828, Start Num: 2
Candidate Starts for Xenomorph_42:
(Start: 1 @30619 has 2 MA's), (Start: 2 @30634 has 17 MA's),