



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 195789 Report

This analysis was run 12/09/24 on database version 580.

Pham number 195789 has 20 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Elsa\_51, Cheesy\_51, Correa\_49, Nason\_51, Tribby\_52, Arcadia\_51, Xenomorph\_48
- Track 2 : Mooshroom\_53, Hankly\_50, Mudcat\_48, Circum\_53
- Track 3 : JEGGS\_50, GoCrazy\_50, BenitoAntonio\_51, Heisenberger\_50, Benllo\_52, Kardesai\_52, KeaneyLin\_50
- Track 4 : Dynamite\_51, NapoleonB\_51

### ***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 15 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_51, BenitoAntonio\_51, Benllo\_52, Cheesy\_51, Correa\_49, Dynamite\_51, Elsa\_51, GoCrazy\_50, Heisenberger\_50, JEGGS\_50, Kardesai\_52, KeaneyLin\_50, NapoleonB\_51, Nason\_51, Tribby\_52, Xenomorph\_48,

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

- Circum\_53, Hankly\_50, Mooshroom\_53, Mudcat\_48,

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

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### **Summary by start number:**

Start 1:

- Found in 11 of 20 ( 55.0% ) of genes in pham
- Manual Annotations of this start: 4 of 19
- Called 36.4% of time when present
- Phage (with cluster) where this start called: Circum\_53 (AM), Hankly\_50 (AM), Mooshroom\_53 (AM), Mudcat\_48 (AM),

Start 2:

- Found in 20 of 20 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 15 of 19
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Arcadia\_51 (AM), BenitoAntonio\_51 (AM), Benllo\_52 (AM), Cheesy\_51 (AM), Correa\_49 (AM), Dynamite\_51 (AM), Elsa\_51 (AM), GoCrazy\_50 (AM), Heisenberger\_50 (AM), JEGGS\_50 (AM), Kardesai\_52 (AM), KeaneyLin\_50 (AM), NapoleonB\_51 (AM), Nason\_51 (AM), Tribby\_52 (AM), Xenomorph\_48 (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 4 times for cluster AM.
- Start number 2 was manually annotated 15 times for cluster AM.

### **Gene Information:**

Gene: Arcadia\_51 Start: 33107, Stop: 33238, Start Num: 2

Candidate Starts for Arcadia\_51:

(Start: 2 @33107 has 15 MA's),

Gene: BenitoAntonio\_51 Start: 32641, Stop: 32775, Start Num: 2

Candidate Starts for BenitoAntonio\_51:

(Start: 1 @32626 has 4 MA's), (Start: 2 @32641 has 15 MA's),

Gene: Benllo\_52 Start: 33319, Stop: 33453, Start Num: 2

Candidate Starts for Benllo\_52:

(Start: 1 @33304 has 4 MA's), (Start: 2 @33319 has 15 MA's),

Gene: Cheesy\_51 Start: 32828, Stop: 32959, Start Num: 2

Candidate Starts for Cheesy\_51:

(Start: 2 @32828 has 15 MA's),

Gene: Circum\_53 Start: 33495, Stop: 33644, Start Num: 1

Candidate Starts for Circum\_53:

(Start: 1 @33495 has 4 MA's), (Start: 2 @33510 has 15 MA's),

Gene: Correa\_49 Start: 31974, Stop: 32105, Start Num: 2

Candidate Starts for Correa\_49:

(Start: 2 @31974 has 15 MA's),

Gene: Dynamite\_51 Start: 33040, Stop: 33168, Start Num: 2

Candidate Starts for Dynamite\_51:

(Start: 2 @33040 has 15 MA's),

Gene: Elsa\_51 Start: 33107, Stop: 33238, Start Num: 2

Candidate Starts for Elsa\_51:

(Start: 2 @33107 has 15 MA's),

Gene: GoCrazy\_50 Start: 32975, Stop: 33109, Start Num: 2

Candidate Starts for GoCrazy\_50:  
(Start: 1 @32960 has 4 MA's), (Start: 2 @32975 has 15 MA's),

Gene: Hankly\_50 Start: 32234, Stop: 32383, Start Num: 1  
Candidate Starts for Hankly\_50:  
(Start: 1 @32234 has 4 MA's), (Start: 2 @32249 has 15 MA's),

Gene: Heisenberger\_50 Start: 32530, Stop: 32664, Start Num: 2  
Candidate Starts for Heisenberger\_50:  
(Start: 1 @32515 has 4 MA's), (Start: 2 @32530 has 15 MA's),

Gene: JEGGS\_50 Start: 32585, Stop: 32719, Start Num: 2  
Candidate Starts for JEGGS\_50:  
(Start: 1 @32570 has 4 MA's), (Start: 2 @32585 has 15 MA's),

Gene: Kardesai\_52 Start: 33219, Stop: 33353, Start Num: 2  
Candidate Starts for Kardesai\_52:  
(Start: 1 @33204 has 4 MA's), (Start: 2 @33219 has 15 MA's),

Gene: KeaneyLin\_50 Start: 32975, Stop: 33109, Start Num: 2  
Candidate Starts for KeaneyLin\_50:  
(Start: 1 @32960 has 4 MA's), (Start: 2 @32975 has 15 MA's),

Gene: Mooshroom\_53 Start: 33204, Stop: 33353, Start Num: 1  
Candidate Starts for Mooshroom\_53:  
(Start: 1 @33204 has 4 MA's), (Start: 2 @33219 has 15 MA's),

Gene: Mudcat\_48 Start: 33928, Stop: 34077, Start Num: 1  
Candidate Starts for Mudcat\_48:  
(Start: 1 @33928 has 4 MA's), (Start: 2 @33943 has 15 MA's),

Gene: NapoleonB\_51 Start: 33040, Stop: 33168, Start Num: 2  
Candidate Starts for NapoleonB\_51:  
(Start: 2 @33040 has 15 MA's),

Gene: Nason\_51 Start: 33107, Stop: 33238, Start Num: 2  
Candidate Starts for Nason\_51:  
(Start: 2 @33107 has 15 MA's),

Gene: Tribby\_52 Start: 33045, Stop: 33176, Start Num: 2  
Candidate Starts for Tribby\_52:  
(Start: 2 @33045 has 15 MA's),

Gene: Xenomorph\_48 Start: 32778, Stop: 32909, Start Num: 2  
Candidate Starts for Xenomorph\_48:  
(Start: 2 @32778 has 15 MA's),