



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 88191 Report

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

Pham number 88191 has 7 members, 1 are drafts.

Phages represented in each track:

- Track 1 : HubbaBubba\_56
- Track 2 : IDyn\_60
- Track 3 : Marietta\_62, WhoseManz\_61
- Track 4 : Yndexa\_62, Sukkupi\_62
- Track 5 : BiPauneto\_63

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

The start number called the most often in the published annotations is 1, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- IDyn\_60, Marietta\_62, Sukkupi\_62, WhoseManz\_61, Yndexa\_62,

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

- BiPauneto\_63, HubbaBubba\_56,

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

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

Start 1:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 71.4% of time when present
- Phage (with cluster) where this start called: IDyn\_60 (CR4), Marietta\_62 (CR4), Sukkupi\_62 (CR4), WhoseManz\_61 (CR4), Yndexa\_62 (CR4),

Start 2:

- Found in 6 of 7 ( 85.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 33.3% of time when present

- Phage (with cluster) where this start called: BiPauneto\_63 (CR4), HubbaBubba\_56 (CR4),

### **Summary by clusters:**

There is one cluster represented in this pham: CR4

Info for manual annotations of cluster CR4:

- Start number 1 was manually annotated 5 times for cluster CR4.
- Start number 2 was manually annotated 1 time for cluster CR4.

### **Gene Information:**

Gene: BiPauneto\_63 Start: 47762, Stop: 47613, Start Num: 2

Candidate Starts for BiPauneto\_63:

(Start: 1 @47798 has 5 MA's), (Start: 2 @47762 has 1 MA's), (6, 47627),

Gene: HubbaBubba\_56 Start: 44269, Stop: 44120, Start Num: 2

Candidate Starts for HubbaBubba\_56:

(Start: 1 @44305 has 5 MA's), (Start: 2 @44269 has 1 MA's), (3, 44203), (4, 44167), (5, 44140), (6, 44134),

Gene: IDyn\_60 Start: 45728, Stop: 45552, Start Num: 1

Candidate Starts for IDyn\_60:

(Start: 1 @45728 has 5 MA's), (6, 45566),

Gene: Marietta\_62 Start: 45858, Stop: 45673, Start Num: 1

Candidate Starts for Marietta\_62:

(Start: 1 @45858 has 5 MA's), (Start: 2 @45822 has 1 MA's), (3, 45756), (4, 45720), (5, 45693), (6, 45687),

Gene: Sukkupi\_62 Start: 47689, Stop: 47504, Start Num: 1

Candidate Starts for Sukkupi\_62:

(Start: 1 @47689 has 5 MA's), (Start: 2 @47653 has 1 MA's), (6, 47518),

Gene: WhoseManz\_61 Start: 45471, Stop: 45286, Start Num: 1

Candidate Starts for WhoseManz\_61:

(Start: 1 @45471 has 5 MA's), (Start: 2 @45435 has 1 MA's), (3, 45369), (4, 45333), (5, 45306), (6, 45300),

Gene: Yndexa\_62 Start: 47689, Stop: 47504, Start Num: 1

Candidate Starts for Yndexa\_62:

(Start: 1 @47689 has 5 MA's), (Start: 2 @47653 has 1 MA's), (6, 47518),