



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 162312 Report

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

Pham number 162312 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Battleship\_51, Switzerland\_50, JSwag\_49, MinecraftSteve\_51, Rosalind\_49, Waits\_50
- Track 2 : Strosahl\_50, Remus\_50
- Track 3 : DekHockey33\_51, Oofda\_51, Soups\_51, Epsocamisio\_49
- Track 4 : Nedarya\_46

### ***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 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Battleship\_51, DekHockey33\_51, Epsocamisio\_49, JSwag\_49, MinecraftSteve\_51, Nedarya\_46, Oofda\_51, Remus\_50, Rosalind\_49, Soups\_51, Strosahl\_50, Switzerland\_50, Waits\_50,

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

- 

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

- 

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

Start 4:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Battleship\_51 (A15), DekHockey33\_51 (A15), Epsocamisio\_49 (A15), JSwag\_49 (A15), MinecraftSteve\_51 (A15), Nedarya\_46 (A15), Oofda\_51 (A15), Remus\_50 (A15), Rosalind\_49 (A15), Soups\_51 (A15), Strosahl\_50 (A15), Switzerland\_50 (A15), Waits\_50 (A15),

### **Summary by clusters:**

There is one cluster represented in this pham: A15

Info for manual annotations of cluster A15:

•Start number 4 was manually annotated 12 times for cluster A15.

**Gene Information:**

Gene: Battleship\_51 Start: 30813, Stop: 30583, Start Num: 4

Candidate Starts for Battleship\_51:

(1, 31158), (Start: 4 @30813 has 12 MA's), (5, 30759), (6, 30756), (7, 30741),

Gene: DekHockey33\_51 Start: 31295, Stop: 31065, Start Num: 4

Candidate Starts for DekHockey33\_51:

(Start: 4 @31295 has 12 MA's), (5, 31241), (6, 31238), (7, 31223),

Gene: Epsocamisio\_49 Start: 30615, Stop: 30388, Start Num: 4

Candidate Starts for Epsocamisio\_49:

(Start: 4 @30615 has 12 MA's), (5, 30561), (6, 30558), (7, 30543),

Gene: JSwag\_49 Start: 30553, Stop: 30326, Start Num: 4

Candidate Starts for JSwag\_49:

(1, 30898), (Start: 4 @30553 has 12 MA's), (5, 30499), (6, 30496), (7, 30481),

Gene: MinecraftSteve\_51 Start: 30817, Stop: 30590, Start Num: 4

Candidate Starts for MinecraftSteve\_51:

(1, 31162), (Start: 4 @30817 has 12 MA's), (5, 30763), (6, 30760), (7, 30745),

Gene: Nedarya\_46 Start: 30263, Stop: 30051, Start Num: 4

Candidate Starts for Nedarya\_46:

(2, 30416), (3, 30359), (Start: 4 @30263 has 12 MA's), (7, 30191), (8, 30068),

Gene: Oofda\_51 Start: 30708, Stop: 30481, Start Num: 4

Candidate Starts for Oofda\_51:

(Start: 4 @30708 has 12 MA's), (5, 30654), (6, 30651), (7, 30636),

Gene: Remus\_50 Start: 30533, Stop: 30306, Start Num: 4

Candidate Starts for Remus\_50:

(1, 30875), (Start: 4 @30533 has 12 MA's), (5, 30479), (6, 30476), (7, 30461),

Gene: Rosalind\_49 Start: 30736, Stop: 30509, Start Num: 4

Candidate Starts for Rosalind\_49:

(1, 31081), (Start: 4 @30736 has 12 MA's), (5, 30682), (6, 30679), (7, 30664),

Gene: Soups\_51 Start: 31056, Stop: 30826, Start Num: 4

Candidate Starts for Soups\_51:

(Start: 4 @31056 has 12 MA's), (5, 31002), (6, 30999), (7, 30984),

Gene: Strosahl\_50 Start: 30533, Stop: 30306, Start Num: 4

Candidate Starts for Strosahl\_50:

(1, 30875), (Start: 4 @30533 has 12 MA's), (5, 30479), (6, 30476), (7, 30461),

Gene: Switzerland\_50 Start: 30916, Stop: 30689, Start Num: 4

Candidate Starts for Switzerland\_50:

(1, 31261), (Start: 4 @30916 has 12 MA's), (5, 30862), (6, 30859), (7, 30844),

Gene: Waits\_50 Start: 30705, Stop: 30478, Start Num: 4

Candidate Starts for Waits\_50:

(1, 31050), (Start: 4 @30705 has 12 MA's), (5, 30651), (6, 30648), (7, 30633),