



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 87304 Report

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

Pham number 87304 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ASegato\_78, Necrophoxinus\_81
- Track 2 : Erenyeager\_80, DustyDino\_83, Yuma\_78, RunningBrook\_82
- Track 3 : Fork\_75, Musetta\_79
- Track 4 : Lyell\_79
- Track 5 : Welcome\_81
- Track 6 : StevieWelch\_80

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

The start number called the most often in the published annotations is 3, it was called in 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato\_78, DustyDino\_83, Erenyeager\_80, Fork\_75, Lyell\_79, Musetta\_79, Necrophoxinus\_81, RunningBrook\_82, StevieWelch\_80, Welcome\_81, Yuma\_78,

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 3:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato\_78 (ED2), DustyDino\_83 (ED2), Erenyeager\_80 (ED2), Fork\_75 (ED2), Lyell\_79 (ED2), Musetta\_79 (ED2), Necrophoxinus\_81 (ED2), RunningBrook\_82 (ED2), StevieWelch\_80 (ED2), Welcome\_81 (ED2), Yuma\_78 (ED2),

### **Summary by clusters:**

There is one cluster represented in this pham: ED2

Info for manual annotations of cluster ED2:

- Start number 3 was manually annotated 9 times for cluster ED2.

**Gene Information:**

Gene: ASegato\_78 Start: 45042, Stop: 44719, Start Num: 3

Candidate Starts for ASegato\_78:

(1, 45318), (2, 45249), (Start: 3 @45042 has 9 MA's), (4, 45003), (6, 44838), (7, 44775), (8, 44766),

Gene: DustyDino\_83 Start: 46005, Stop: 45682, Start Num: 3

Candidate Starts for DustyDino\_83:

(1, 46281), (2, 46212), (Start: 3 @46005 has 9 MA's), (4, 45966), (5, 45924), (6, 45801), (7, 45738), (8, 45729),

Gene: Erenyeager\_80 Start: 45097, Stop: 44774, Start Num: 3

Candidate Starts for Erenyeager\_80:

(1, 45373), (2, 45304), (Start: 3 @45097 has 9 MA's), (4, 45058), (5, 45016), (6, 44893), (7, 44830), (8, 44821),

Gene: Fork\_75 Start: 44752, Stop: 44429, Start Num: 3

Candidate Starts for Fork\_75:

(Start: 3 @44752 has 9 MA's), (4, 44713), (6, 44548), (7, 44485), (8, 44476),

Gene: Lyell\_79 Start: 44951, Stop: 44628, Start Num: 3

Candidate Starts for Lyell\_79:

(Start: 3 @44951 has 9 MA's), (4, 44912), (6, 44747), (7, 44684), (8, 44675),

Gene: Musetta\_79 Start: 45472, Stop: 45149, Start Num: 3

Candidate Starts for Musetta\_79:

(Start: 3 @45472 has 9 MA's), (4, 45433), (6, 45268), (7, 45205), (8, 45196),

Gene: Necrophoxinus\_81 Start: 45646, Stop: 45323, Start Num: 3

Candidate Starts for Necrophoxinus\_81:

(1, 45922), (2, 45853), (Start: 3 @45646 has 9 MA's), (4, 45607), (6, 45442), (7, 45379), (8, 45370),

Gene: RunningBrook\_82 Start: 46005, Stop: 45682, Start Num: 3

Candidate Starts for RunningBrook\_82:

(1, 46281), (2, 46212), (Start: 3 @46005 has 9 MA's), (4, 45966), (5, 45924), (6, 45801), (7, 45738), (8, 45729),

Gene: StevieWelch\_80 Start: 45097, Stop: 44774, Start Num: 3

Candidate Starts for StevieWelch\_80:

(1, 45373), (2, 45304), (Start: 3 @45097 has 9 MA's), (4, 45058), (6, 44893), (7, 44830), (8, 44821),

Gene: Welcome\_81 Start: 45457, Stop: 45134, Start Num: 3

Candidate Starts for Welcome\_81:

(Start: 3 @45457 has 9 MA's), (4, 45418), (5, 45376), (6, 45253), (7, 45190), (8, 45181),

Gene: Yuma\_78 Start: 44966, Stop: 44643, Start Num: 3

Candidate Starts for Yuma\_78:

(1, 45242), (2, 45173), (Start: 3 @44966 has 9 MA's), (4, 44927), (5, 44885), (6, 44762), (7, 44699), (8, 44690),