



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 87541 Report

This analysis was run 03/30/24 on database version 556.

Pham number 87541 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Bench\_21, HanKaySha\_20, Moldemort\_20, AmericanBeauty\_21, Xandras\_21, Czyszczone1\_20, Highbury\_20, Saints25\_20, Simpliphy\_20, NoSleep\_20, OrionPax\_20

### ***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 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AmericanBeauty\_21, Bench\_21, Czyszczone1\_20, HanKaySha\_20, Highbury\_20, Moldemort\_20, NoSleep\_20, OrionPax\_20, Saints25\_20, Simpliphy\_20, Xandras\_21,

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 1:

- 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: AmericanBeauty\_21 (E), Bench\_21 (E), Czyszczone1\_20 (E), HanKaySha\_20 (E), Highbury\_20 (E), Moldemort\_20 (E), NoSleep\_20 (E), OrionPax\_20 (E), Saints25\_20 (E), Simpliphy\_20 (E), Xandras\_21 (E),

### **Summary by clusters:**

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 1 was manually annotated 9 times for cluster E.

### **Gene Information:**

Gene: AmericanBeauty\_21 Start: 11866, Stop: 12339, Start Num: 1

Candidate Starts for AmericanBeauty\_21:

(Start: 1 @11866 has 9 MA's), (2, 11899), (3, 11941), (4, 12022), (5, 12154), (6, 12259),

Gene: Bench\_21 Start: 11742, Stop: 12215, Start Num: 1

Candidate Starts for Bench\_21:

(Start: 1 @11742 has 9 MA's), (2, 11775), (3, 11817), (4, 11898), (5, 12030), (6, 12135),

Gene: Czyszczonek\_20 Start: 11624, Stop: 12097, Start Num: 1

Candidate Starts for Czyszczonek\_20:

(Start: 1 @11624 has 9 MA's), (2, 11657), (3, 11699), (4, 11780), (5, 11912), (6, 12017),

Gene: HanKaySha\_20 Start: 11624, Stop: 12097, Start Num: 1

Candidate Starts for HanKaySha\_20:

(Start: 1 @11624 has 9 MA's), (2, 11657), (3, 11699), (4, 11780), (5, 11912), (6, 12017),

Gene: Highbury\_20 Start: 11543, Stop: 12016, Start Num: 1

Candidate Starts for Highbury\_20:

(Start: 1 @11543 has 9 MA's), (2, 11576), (3, 11618), (4, 11699), (5, 11831), (6, 11936),

Gene: Moldemort\_20 Start: 11624, Stop: 12097, Start Num: 1

Candidate Starts for Moldemort\_20:

(Start: 1 @11624 has 9 MA's), (2, 11657), (3, 11699), (4, 11780), (5, 11912), (6, 12017),

Gene: NoSleep\_20 Start: 11621, Stop: 12094, Start Num: 1

Candidate Starts for NoSleep\_20:

(Start: 1 @11621 has 9 MA's), (2, 11654), (3, 11696), (4, 11777), (5, 11909), (6, 12014),

Gene: OrionPax\_20 Start: 11624, Stop: 12097, Start Num: 1

Candidate Starts for OrionPax\_20:

(Start: 1 @11624 has 9 MA's), (2, 11657), (3, 11699), (4, 11780), (5, 11912), (6, 12017),

Gene: Saints25\_20 Start: 11543, Stop: 12016, Start Num: 1

Candidate Starts for Saints25\_20:

(Start: 1 @11543 has 9 MA's), (2, 11576), (3, 11618), (4, 11699), (5, 11831), (6, 11936),

Gene: Simpliphy\_20 Start: 11624, Stop: 12097, Start Num: 1

Candidate Starts for Simpliphy\_20:

(Start: 1 @11624 has 9 MA's), (2, 11657), (3, 11699), (4, 11780), (5, 11912), (6, 12017),

Gene: Xandras\_21 Start: 11869, Stop: 12342, Start Num: 1

Candidate Starts for Xandras\_21:

(Start: 1 @11869 has 9 MA's), (2, 11902), (3, 11944), (4, 12025), (5, 12157), (6, 12262),