



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 87431 Report

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

Pham number 87431 has 12 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Angela\_251, LilMartin\_247, MulchMansion\_251
- Track 2 : WhereRU\_250, Braelyn\_239, Persimmon\_245, Paradiddles\_234, NootNoot\_239, Navo\_244, Bartholomune\_243
- Track 3 : Mildred21\_256
- Track 4 : Anedea\_256

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

Genes that call this "Most Annotated" start:

- Anedea\_256, Angela\_251, Bartholomune\_243, Braelyn\_239, LilMartin\_247, Mildred21\_256, MulchMansion\_251, Navo\_244, NootNoot\_239, Paradiddles\_234, Persimmon\_245, WhereRU\_250,

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 2:

- Found in 12 of 12 ( 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: Anedea\_256 (BE1), Angela\_251 (BE1), Bartholomune\_243 (BE1), Braelyn\_239 (BE1), LilMartin\_247 (BE1), Mildred21\_256 (BE1), MulchMansion\_251 (BE1), Navo\_244 (BE1), NootNoot\_239 (BE1), Paradiddles\_234 (BE1), Persimmon\_245 (BE1), WhereRU\_250 (BE1),

### **Summary by clusters:**

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:

- Start number 2 was manually annotated 9 times for cluster BE1.

**Gene Information:**

Gene: Anedea\_256 Start: 120701, Stop: 120862, Start Num: 2

Candidate Starts for Anedea\_256:

(1, 120617), (Start: 2 @120701 has 9 MA's), (3, 120704), (5, 120737),

Gene: Angela\_251 Start: 120046, Stop: 120207, Start Num: 2

Candidate Starts for Angela\_251:

(1, 119962), (Start: 2 @120046 has 9 MA's), (4, 120058), (9, 120193),

Gene: Bartholomune\_243 Start: 118705, Stop: 118869, Start Num: 2

Candidate Starts for Bartholomune\_243:

(Start: 2 @118705 has 9 MA's), (6, 118825), (7, 118831), (9, 118855),

Gene: Braelyn\_239 Start: 118039, Stop: 118203, Start Num: 2

Candidate Starts for Braelyn\_239:

(Start: 2 @118039 has 9 MA's), (6, 118159), (7, 118165), (9, 118189),

Gene: LilMartin\_247 Start: 118986, Stop: 119147, Start Num: 2

Candidate Starts for LilMartin\_247:

(1, 118902), (Start: 2 @118986 has 9 MA's), (4, 118998), (9, 119133),

Gene: Mildred21\_256 Start: 118602, Stop: 118766, Start Num: 2

Candidate Starts for Mildred21\_256:

(Start: 2 @118602 has 9 MA's), (3, 118605), (8, 118728),

Gene: MulchMansion\_251 Start: 120620, Stop: 120781, Start Num: 2

Candidate Starts for MulchMansion\_251:

(1, 120536), (Start: 2 @120620 has 9 MA's), (4, 120632), (9, 120767),

Gene: Navo\_244 Start: 117243, Stop: 117407, Start Num: 2

Candidate Starts for Navo\_244:

(Start: 2 @117243 has 9 MA's), (6, 117363), (7, 117369), (9, 117393),

Gene: NootNoot\_239 Start: 117938, Stop: 118102, Start Num: 2

Candidate Starts for NootNoot\_239:

(Start: 2 @117938 has 9 MA's), (6, 118058), (7, 118064), (9, 118088),

Gene: Paradiddles\_234 Start: 120313, Stop: 120477, Start Num: 2

Candidate Starts for Paradiddles\_234:

(Start: 2 @120313 has 9 MA's), (6, 120433), (7, 120439), (9, 120463),

Gene: Persimmon\_245 Start: 118440, Stop: 118604, Start Num: 2

Candidate Starts for Persimmon\_245:

(Start: 2 @118440 has 9 MA's), (6, 118560), (7, 118566), (9, 118590),

Gene: WhereRU\_250 Start: 118774, Stop: 118938, Start Num: 2  
Candidate Starts for WhereRU\_250:  
(Start: 2 @118774 has 9 MA's), (6, 118894), (7, 118900), (9, 118924),