



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 284401 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284401 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Braelyn\_161, Davielle\_159, WhereRU\_158, Persimmon\_159, Navo\_157
- Track 2 : Daubenski\_114
- Track 3 : Davielle\_141, WhereRU\_140, Persimmon\_141
- Track 4 : JimJam\_149

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

The start number called the most often in the published annotations is 8, it was called in 5 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Braelyn\_161, Davielle\_159, Navo\_157, Persimmon\_159, WhereRU\_158,

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

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

- Daubenski\_114, Davielle\_141, JimJam\_149, Persimmon\_141, WhereRU\_140,

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

Start 8:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 5 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Braelyn\_161 (BE1), Davielle\_159 (BE1), Navo\_157 (BE1), Persimmon\_159 (BE1), WhereRU\_158 (BE1),

Start 9:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Daubenski\_114 (BE1), JimJam\_149 (BE2),

Start 11:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Davielle\_141 (BE1), Persimmon\_141 (BE1), WhereRU\_140 (BE1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 8 was manually annotated 5 times for cluster BE1.
- Start number 9 was manually annotated 1 time for cluster BE1.
- Start number 11 was manually annotated 3 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 9 was manually annotated 1 time for cluster BE2.

### **Gene Information:**

Gene: Braelyn\_161 Start: 91079, Stop: 91384, Start Num: 8

Candidate Starts for Braelyn\_161:

(Start: 8 @91079 has 5 MA's), (Start: 9 @91100 has 2 MA's), (10, 91112), (15, 91277), (17, 91301),

Gene: Daubenski\_114 Start: 77002, Stop: 77292, Start Num: 9

Candidate Starts for Daubenski\_114:

(1, 76717), (2, 76738), (3, 76753), (4, 76777), (5, 76873), (Start: 9 @77002 has 2 MA's), (13, 77092), (14, 77161), (17, 77191), (18, 77257),

Gene: Davielle\_141 Start: 86167, Stop: 86424, Start Num: 11

Candidate Starts for Davielle\_141:

(6, 86089), (7, 86107), (Start: 11 @86167 has 3 MA's), (12, 86194), (16, 86305),

Gene: Davielle\_159 Start: 90528, Stop: 90833, Start Num: 8

Candidate Starts for Davielle\_159:

(Start: 8 @90528 has 5 MA's), (Start: 9 @90549 has 2 MA's), (10, 90561), (15, 90726), (17, 90750),

Gene: JimJam\_149 Start: 86635, Stop: 86916, Start Num: 9

Candidate Starts for JimJam\_149:

(Start: 9 @86635 has 2 MA's), (15, 86797), (19, 86905),

Gene: Navo\_157 Start: 90460, Stop: 90765, Start Num: 8

Candidate Starts for Navo\_157:

(Start: 8 @90460 has 5 MA's), (Start: 9 @90481 has 2 MA's), (10, 90493), (15, 90658), (17, 90682),

Gene: Persimmon\_141 Start: 85415, Stop: 85672, Start Num: 11

Candidate Starts for Persimmon\_141:

(6, 85337), (7, 85355), (Start: 11 @85415 has 3 MA's), (12, 85442), (16, 85553),

Gene: Persimmon\_159 Start: 89776, Stop: 90081, Start Num: 8

Candidate Starts for Persimmon\_159:

(Start: 8 @89776 has 5 MA's), (Start: 9 @89797 has 2 MA's), (10, 89809), (15, 89974), (17, 89998),

Gene: WhereRU\_140 Start: 86167, Stop: 86424, Start Num: 11

Candidate Starts for WhereRU\_140:

(6, 86089), (7, 86107), (Start: 11 @86167 has 3 MA's), (12, 86194), (16, 86305),

Gene: WhereRU\_158 Start: 90528, Stop: 90833, Start Num: 8

Candidate Starts for WhereRU\_158:

(Start: 8 @90528 has 5 MA's), (Start: 9 @90549 has 2 MA's), (10, 90561), (15, 90726), (17, 90750),