



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 305517 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305517 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : SeresaTree\_44, Faust\_45
- Track 2 : Patelgo\_45, Moab\_45
- Track 3 : Chaewon\_44
- Track 4 : Muntaha\_41, Wakanda\_41
- Track 5 : Circinus\_42, BillNye\_40

### ***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 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Faust\_45, Moab\_45, Patelgo\_45, SeresaTree\_44,

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:

- BillNye\_40, Chaewon\_44, Circinus\_42, Muntaha\_41, Wakanda\_41,

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

Start 1:

- Found in 3 of 9 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye\_40 (BK2), Chaewon\_44 (BK2), Circinus\_42 (BK2),

Start 2:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Muntaha\_41 (BK2), Wakanda\_41 (BK2),

Start 3:

- Found in 4 of 9 ( 44.4% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faust\_45 (BK1), Moab\_45 (BK1), Patelgo\_45 (BK1), SeresaTree\_44 (BK1),

**Summary by clusters:**

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:

- Start number 3 was manually annotated 3 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 1 was manually annotated 2 times for cluster BK2.
- Start number 2 was manually annotated 2 times for cluster BK2.

**Gene Information:**

Gene: BillNye\_40 Start: 43185, Stop: 43391, Start Num: 1

Candidate Starts for BillNye\_40:

(Start: 1 @43185 has 2 MA's), (6, 43305), (7, 43317),

Gene: Chaewon\_44 Start: 43322, Stop: 43528, Start Num: 1

Candidate Starts for Chaewon\_44:

(Start: 1 @43322 has 2 MA's), (6, 43442), (8, 43475),

Gene: Circinus\_42 Start: 43324, Stop: 43530, Start Num: 1

Candidate Starts for Circinus\_42:

(Start: 1 @43324 has 2 MA's), (6, 43444), (7, 43456),

Gene: Faust\_45 Start: 41234, Stop: 41452, Start Num: 3

Candidate Starts for Faust\_45:

(Start: 3 @41234 has 3 MA's), (4, 41252), (5, 41297), (6, 41348), (9, 41393), (10, 41426),

Gene: Moab\_45 Start: 41874, Stop: 42110, Start Num: 3

Candidate Starts for Moab\_45:

(Start: 3 @41874 has 3 MA's), (6, 41988), (11, 42093),

Gene: Muntaha\_41 Start: 41616, Stop: 41807, Start Num: 2

Candidate Starts for Muntaha\_41:

(Start: 2 @41616 has 2 MA's), (6, 41733),

Gene: Patelgo\_45 Start: 42061, Stop: 42297, Start Num: 3

Candidate Starts for Patelgo\_45:

(Start: 3 @42061 has 3 MA's), (6, 42175), (11, 42280),

Gene: SeresaTree\_44 Start: 40624, Stop: 40842, Start Num: 3

Candidate Starts for SeresaTree\_44:

(Start: 3 @40624 has 3 MA's), (4, 40642), (5, 40687), (6, 40738), (9, 40783), (10, 40816),

Gene: Wakanda\_41 Start: 41554, Stop: 41745, Start Num: 2

Candidate Starts for Wakanda\_41:

(Start: 2 @41554 has 2 MA's), (6, 41671),