



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 270207 Report

This analysis was run 02/07/26 on database version 634.

Pham number 270207 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Bumble\_60
- Track 2 : CalWood4100\_66, Lilmac1015\_66, Klevey\_65, Bolt007\_63
- Track 3 : Altadena\_61
- Track 4 : Nandito\_64
- Track 5 : Circuit\_60

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

The start number called the most often in the published annotations is 5, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bolt007\_63, Bumble\_60, CalWood4100\_66, Klevey\_65, Lilmac1015\_66, Nandito\_64,

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:

- Altadena\_61, Circuit\_60,

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

Start 3:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altadena\_61 (FH),

Start 4:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Circuit\_60 (FH),

Start 5:

- Found in 6 of 8 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 4 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bolt007\_63 (FH), Bumble\_60 (FH), CalWood4100\_66 (FH), Klevey\_65 (FH), Lilmac1015\_66 (FH), Nandito\_64 (FH),

### **Summary by clusters:**

There is one cluster represented in this pham: FH

Info for manual annotations of cluster FH:

- Start number 3 was manually annotated 1 time for cluster FH.
- Start number 4 was manually annotated 1 time for cluster FH.
- Start number 5 was manually annotated 4 times for cluster FH.

### **Gene Information:**

Gene: Altadena\_61 Start: 39462, Stop: 39623, Start Num: 3

Candidate Starts for Altadena\_61:

(1, 39333), (2, 39360), (Start: 3 @39462 has 1 MA's), (9, 39612),

Gene: Bolt007\_63 Start: 41703, Stop: 41837, Start Num: 5

Candidate Starts for Bolt007\_63:

(Start: 5 @41703 has 4 MA's),

Gene: Bumble\_60 Start: 40274, Stop: 40429, Start Num: 5

Candidate Starts for Bumble\_60:

(Start: 5 @40274 has 4 MA's), (6, 40280), (8, 40394),

Gene: CalWood4100\_66 Start: 41664, Stop: 41798, Start Num: 5

Candidate Starts for CalWood4100\_66:

(Start: 5 @41664 has 4 MA's),

Gene: Circuit\_60 Start: 40806, Stop: 40961, Start Num: 4

Candidate Starts for Circuit\_60:

(1, 40677), (2, 40704), (Start: 4 @40806 has 1 MA's), (6, 40812), (7, 40818), (8, 40926),

Gene: Klevey\_65 Start: 41409, Stop: 41543, Start Num: 5

Candidate Starts for Klevey\_65:

(Start: 5 @41409 has 4 MA's),

Gene: Lilmac1015\_66 Start: 41664, Stop: 41798, Start Num: 5

Candidate Starts for Lilmac1015\_66:

(Start: 5 @41664 has 4 MA's),

Gene: Nandito\_64 Start: 41807, Stop: 41956, Start Num: 5

Candidate Starts for Nandito\_64:

(Start: 5 @41807 has 4 MA's), (7, 41819),