



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 13622 Report

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

Pham number 13622 has 8 members, 5 are drafts.

Phages represented in each track:

- Track 1 : HangryHippo\_184, Larnav\_190, BlueOtter\_184, Pepperwood\_180
- Track 2 : PinkiePie\_179, Squillium\_182
- Track 3 : PacManQ\_184
- Track 4 : Gibbi\_200

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

Genes that call this "Most Annotated" start:

- PinkiePie\_179, Squillium\_182,

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

- BlueOtter\_184, HangryHippo\_184, Larnav\_190, PacManQ\_184, Pepperwood\_180,

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

- Gibbi\_200,

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

Start 1:

- Found in 7 of 8 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 2 of 3
- Called 28.6% of time when present
- Phage (with cluster) where this start called: PinkiePie\_179 (BE1), Squillium\_182 (BE1),

Start 3:

- Found in 7 of 8 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 71.4% of time when present
- Phage (with cluster) where this start called: BlueOtter\_184 (BE1), HangryHippo\_184 (BE1), Larnav\_190 (BE1), PacManQ\_184 (BE1), Pepperwood\_180 (BE1),

Start 4:

- Found in 7 of 8 ( 87.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Gibbi\_200 (BE2),

### **Summary by clusters:**

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

Info for manual annotations of cluster BE1:

- Start number 1 was manually annotated 2 times for cluster BE1.
- Start number 3 was manually annotated 1 time for cluster BE1.

### **Gene Information:**

Gene: BlueOtter\_184 Start: 96911, Stop: 97066, Start Num: 3

Candidate Starts for BlueOtter\_184:

(Start: 1 @96899 has 2 MA's), (2, 96908), (Start: 3 @96911 has 1 MA's), (4, 96950), (5, 96965), (6, 96980), (7, 97001),

Gene: Gibbi\_200 Start: 97921, Stop: 98043, Start Num: 4

Candidate Starts for Gibbi\_200:

(4, 97921), (5, 97936), (6, 97951), (7, 97972),

Gene: HangryHippo\_184 Start: 96911, Stop: 97066, Start Num: 3

Candidate Starts for HangryHippo\_184:

(Start: 1 @96899 has 2 MA's), (2, 96908), (Start: 3 @96911 has 1 MA's), (4, 96950), (5, 96965), (6, 96980), (7, 97001),

Gene: Larnav\_190 Start: 97530, Stop: 97685, Start Num: 3

Candidate Starts for Larnav\_190:

(Start: 1 @97518 has 2 MA's), (2, 97527), (Start: 3 @97530 has 1 MA's), (4, 97569), (5, 97584), (6, 97599), (7, 97620),

Gene: PacManQ\_184 Start: 96292, Stop: 96447, Start Num: 3

Candidate Starts for PacManQ\_184:

(Start: 1 @96280 has 2 MA's), (2, 96289), (Start: 3 @96292 has 1 MA's), (5, 96346), (6, 96361), (7, 96382),

Gene: Pepperwood\_180 Start: 97177, Stop: 97332, Start Num: 3

Candidate Starts for Pepperwood\_180:

(Start: 1 @97165 has 2 MA's), (2, 97174), (Start: 3 @97177 has 1 MA's), (4, 97216), (5, 97231), (6, 97246), (7, 97267),

Gene: PinkiePie\_179 Start: 96422, Stop: 96589, Start Num: 1

Candidate Starts for PinkiePie\_179:

(Start: 1 @96422 has 2 MA's), (2, 96431), (Start: 3 @96434 has 1 MA's), (4, 96473), (5, 96488), (6, 96503), (7, 96524),

Gene: Squillium\_182 Start: 96424, Stop: 96591, Start Num: 1

Candidate Starts for Squillium\_182:

(Start: 1 @96424 has 2 MA's), (2, 96433), (Start: 3 @96436 has 1 MA's), (4, 96475), (5, 96490), (6, 96505), (7, 96526),