

Pham 164062



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 164062 Report

This analysis was run 05/04/24 on database version 560.

Pham number 164062 has 12 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Margaery\_29
- Track 2 : Matzah\_30
- Track 3 : Cinna\_29, MementoMori\_30
- Track 4 : Kozie\_30
- Track 5 : Terij\_30
- Track 6 : Cressida\_31
- Track 7 : Dewdrop\_74, Leaf\_74
- Track 8 : Rasputia\_69
- Track 9 : Hendrix\_68
- Track 10 : FuzzBuster\_38

### ***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 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cinna\_29, Cressida\_31, Kozie\_30, Margaery\_29, Matzah\_30, MementoMori\_30, Terij\_30,

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

- Dewdrop\_74, Hendrix\_68, Leaf\_74,

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

- FuzzBuster\_38, Rasputia\_69,

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

Start 1:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop\_74 (GC), Hendrix\_68 (GC), Leaf\_74 (GC), Rasputia\_69 (GC),

#### Start 2:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 50.0% of time when present
- Phage (with cluster) where this start called: FuzzBuster\_38 (singleton),

#### Start 3:

- Found in 10 of 12 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 7 of 12
- Called 70.0% of time when present
- Phage (with cluster) where this start called: Cinna\_29 (EI), Cressida\_31 (EI), Kozie\_30 (EI), Margaery\_29 (EI), Matzah\_30 (EI), MementoMori\_30 (EI), Terij\_30 (EI),

### Summary by clusters:

There are 3 clusters represented in this pham: EI, singleton, GC,

Info for manual annotations of cluster EI:

- Start number 3 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster GC:

- Start number 1 was manually annotated 4 times for cluster GC.

### Gene Information:

Gene: Cinna\_29 Start: 19234, Stop: 19563, Start Num: 3

Candidate Starts for Cinna\_29:

(Start: 3 @19234 has 7 MA's), (17, 19402), (19, 19417), (23, 19486), (28, 19507), (31, 19528),

Gene: Cressida\_31 Start: 19293, Stop: 19622, Start Num: 3

Candidate Starts for Cressida\_31:

(Start: 3 @19293 has 7 MA's), (17, 19461), (19, 19476), (23, 19545), (25, 19554), (27, 19563), (28, 19566), (31, 19587),

Gene: Dewdrop\_74 Start: 40299, Stop: 40676, Start Num: 1

Candidate Starts for Dewdrop\_74:

(Start: 1 @40299 has 4 MA's), (Start: 3 @40362 has 7 MA's), (4, 40371), (6, 40401), (7, 40407), (10, 40434), (26, 40623), (28, 40632),

Gene: FuzzBuster\_38 Start: 19953, Stop: 20273, Start Num: 2

Candidate Starts for FuzzBuster\_38:

(Start: 2 @19953 has 1 MA's), (5, 19971), (15, 20112), (16, 20121), (21, 20169), (22, 20184), (26, 20220), (28, 20229),

Gene: Hendrix\_68 Start: 39565, Stop: 39939, Start Num: 1

Candidate Starts for Hendrix\_68:

(Start: 1 @39565 has 4 MA's), (Start: 2 @39619 has 1 MA's), (Start: 3 @39625 has 7 MA's), (6, 39664), (7, 39670), (8, 39682), (12, 39745), (18, 39799), (26, 39886), (28, 39895),

Gene: Kozie\_30 Start: 19523, Stop: 19852, Start Num: 3

Candidate Starts for Kozie\_30:

(Start: 3 @19523 has 7 MA's), (11, 19628), (13, 19667), (16, 19688), (17, 19691), (18, 19700), (23, 19775), (27, 19793), (28, 19796), (30, 19808), (31, 19817),

Gene: Leaf\_74 Start: 40299, Stop: 40676, Start Num: 1

Candidate Starts for Leaf\_74:

(Start: 1 @40299 has 4 MA's), (Start: 3 @40362 has 7 MA's), (4, 40371), (6, 40401), (7, 40407), (10, 40434), (26, 40623), (28, 40632),

Gene: Margaery\_29 Start: 19175, Stop: 19504, Start Num: 3

Candidate Starts for Margaery\_29:

(Start: 3 @19175 has 7 MA's), (14, 19325), (17, 19343), (19, 19358), (28, 19448), (29, 19457),

Gene: Matzah\_30 Start: 19210, Stop: 19539, Start Num: 3

Candidate Starts for Matzah\_30:

(Start: 3 @19210 has 7 MA's), (17, 19378), (19, 19393), (23, 19462), (28, 19483), (31, 19504),

Gene: MementoMori\_30 Start: 18940, Stop: 19269, Start Num: 3

Candidate Starts for MementoMori\_30:

(Start: 3 @18940 has 7 MA's), (17, 19108), (19, 19123), (23, 19192), (28, 19213), (31, 19234),

Gene: Rasputia\_69 Start: 39531, Stop: 39905, Start Num: 1

Candidate Starts for Rasputia\_69:

(Start: 1 @39531 has 4 MA's), (6, 39630), (7, 39636), (8, 39648), (9, 39657), (18, 39765), (20, 39783), (26, 39852), (28, 39861),

Gene: Terij\_30 Start: 19256, Stop: 19585, Start Num: 3

Candidate Starts for Terij\_30:

(Start: 3 @19256 has 7 MA's), (13, 19400), (14, 19406), (17, 19424), (18, 19433), (19, 19439), (24, 19511), (28, 19529),