



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 164038 Report

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

Pham number 164038 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : CaptainTrips\_46, MinionDave\_48, Beakin\_51, XFactor\_47, Melissauren88\_47, Ms6\_42, Hlubikazi\_46, Mandlovu\_46, Hegedechwinu\_49, StAnnes\_48, Bobi\_51
- Track 2 : Ovechkin\_46
- Track 3 : PhesterPhotato\_52, Phalconet\_48

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

Genes that call this "Most Annotated" start:

- Beakin\_51, Bobi\_51, CaptainTrips\_46, Hegedechwinu\_49, Hlubikazi\_46, Mandlovu\_46, Melissauren88\_47, MinionDave\_48, Ms6\_42, Ovechkin\_46, Phalconet\_48, PhesterPhotato\_52, StAnnes\_48, XFactor\_47,

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

- 

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

- 

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

Start 1:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beakin\_51 (F1), Bobi\_51 (F1), CaptainTrips\_46 (F1), Hegedechwinu\_49 (F1), Hlubikazi\_46 (F1), Mandlovu\_46 (F1), Melissauren88\_47 (F1), MinionDave\_48 (F1), Ms6\_42 (F1), Ovechkin\_46 (F1), Phalconet\_48 (F1), PhesterPhotato\_52 (F1), StAnnes\_48 (F1), XFactor\_47 (F1),

### **Summary by clusters:**

There is one cluster represented in this pham: F1

Info for manual annotations of cluster F1:

•Start number 1 was manually annotated 12 times for cluster F1.

**Gene Information:**

Gene: Beakin\_51 Start: 36341, Stop: 36463, Start Num: 1

Candidate Starts for Beakin\_51:

(Start: 1 @36341 has 12 MA's), (2, 36371), (3, 36407), (4, 36434),

Gene: Bobi\_51 Start: 37108, Stop: 37230, Start Num: 1

Candidate Starts for Bobi\_51:

(Start: 1 @37108 has 12 MA's), (2, 37138), (3, 37174), (4, 37201),

Gene: CaptainTrips\_46 Start: 35541, Stop: 35663, Start Num: 1

Candidate Starts for CaptainTrips\_46:

(Start: 1 @35541 has 12 MA's), (2, 35571), (3, 35607), (4, 35634),

Gene: Hegedechwinu\_49 Start: 35233, Stop: 35355, Start Num: 1

Candidate Starts for Hegedechwinu\_49:

(Start: 1 @35233 has 12 MA's), (2, 35263), (3, 35299), (4, 35326),

Gene: Hlubikazi\_46 Start: 34993, Stop: 35115, Start Num: 1

Candidate Starts for Hlubikazi\_46:

(Start: 1 @34993 has 12 MA's), (2, 35023), (3, 35059), (4, 35086),

Gene: Mandlovu\_46 Start: 34935, Stop: 35057, Start Num: 1

Candidate Starts for Mandlovu\_46:

(Start: 1 @34935 has 12 MA's), (2, 34965), (3, 35001), (4, 35028),

Gene: Melissauren88\_47 Start: 35779, Stop: 35901, Start Num: 1

Candidate Starts for Melissauren88\_47:

(Start: 1 @35779 has 12 MA's), (2, 35809), (3, 35845), (4, 35872),

Gene: MinionDave\_48 Start: 36316, Stop: 36438, Start Num: 1

Candidate Starts for MinionDave\_48:

(Start: 1 @36316 has 12 MA's), (2, 36346), (3, 36382), (4, 36409),

Gene: Ms6\_42 Start: 30845, Stop: 30967, Start Num: 1

Candidate Starts for Ms6\_42:

(Start: 1 @30845 has 12 MA's), (2, 30875), (3, 30911), (4, 30938),

Gene: Ovechkin\_46 Start: 36166, Stop: 36288, Start Num: 1

Candidate Starts for Ovechkin\_46:

(Start: 1 @36166 has 12 MA's), (2, 36196), (3, 36232), (4, 36259),

Gene: Phalconet\_48 Start: 36086, Stop: 36208, Start Num: 1

Candidate Starts for Phalconet\_48:

(Start: 1 @36086 has 12 MA's), (2, 36116), (3, 36152), (4, 36179),

Gene: PhesterPhotato\_52 Start: 37041, Stop: 37163, Start Num: 1  
Candidate Starts for PhesterPhotato\_52:  
(Start: 1 @37041 has 12 MA's), (2, 37071), (3, 37107), (4, 37134),

Gene: StAnnes\_48 Start: 36758, Stop: 36880, Start Num: 1  
Candidate Starts for StAnnes\_48:  
(Start: 1 @36758 has 12 MA's), (2, 36788), (3, 36824), (4, 36851),

Gene: XFactor\_47 Start: 35487, Stop: 35609, Start Num: 1  
Candidate Starts for XFactor\_47:  
(Start: 1 @35487 has 12 MA's), (2, 35517), (3, 35553), (4, 35580),