



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 293378 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293378 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Kumquat\_50, WRightOn\_53, Zeigle\_50
- Track 2 : RetrieverFever\_51, Gremlin23\_51, Fabian\_48, Geostin\_46, Vorvolakos\_51, FlowerPower\_51
- Track 3 : Stella\_54

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

The start number called the most often in the published annotations is 2, it was called in 6 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Fabian\_48, FlowerPower\_51, Geostin\_46, Gremlin23\_51, RetrieverFever\_51, Vorvolakos\_51,

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:

- Kumquat\_50, Stella\_54, WRightOn\_53, Zeigle\_50,

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

Start 1:

- Found in 4 of 10 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumquat\_50 (BF), Stella\_54 (BF), WRightOn\_53 (BF), Zeigle\_50 (BF),

Start 2:

- Found in 6 of 10 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 6 of 10
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Fabian\_48 (BF), FlowerPower\_51 (BF), Geostin\_46 (BF), Gremlin23\_51 (BF), RetrieverFever\_51 (BF), Vorvolakos\_51 (BF),

### **Summary by clusters:**

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:

- Start number 1 was manually annotated 4 times for cluster BF.
- Start number 2 was manually annotated 6 times for cluster BF.

### **Gene Information:**

Gene: Fabian\_48 Start: 28183, Stop: 27974, Start Num: 2

Candidate Starts for Fabian\_48:

(Start: 2 @28183 has 6 MA's), (4, 28054),

Gene: FlowerPower\_51 Start: 28183, Stop: 27974, Start Num: 2

Candidate Starts for FlowerPower\_51:

(Start: 2 @28183 has 6 MA's), (4, 28054),

Gene: Geostin\_46 Start: 28183, Stop: 27974, Start Num: 2

Candidate Starts for Geostin\_46:

(Start: 2 @28183 has 6 MA's), (4, 28054),

Gene: Gremlin23\_51 Start: 28183, Stop: 27974, Start Num: 2

Candidate Starts for Gremlin23\_51:

(Start: 2 @28183 has 6 MA's), (4, 28054),

Gene: Kumquat\_50 Start: 28403, Stop: 28197, Start Num: 1

Candidate Starts for Kumquat\_50:

(Start: 1 @28403 has 4 MA's), (5, 28262),

Gene: RetrieverFever\_51 Start: 28183, Stop: 27974, Start Num: 2

Candidate Starts for RetrieverFever\_51:

(Start: 2 @28183 has 6 MA's), (4, 28054),

Gene: Stella\_54 Start: 29102, Stop: 28878, Start Num: 1

Candidate Starts for Stella\_54:

(Start: 1 @29102 has 4 MA's), (3, 29057),

Gene: Vorvolakos\_51 Start: 28182, Stop: 27973, Start Num: 2

Candidate Starts for Vorvolakos\_51:

(Start: 2 @28182 has 6 MA's), (4, 28053),

Gene: WRightOn\_53 Start: 28559, Stop: 28353, Start Num: 1

Candidate Starts for WRightOn\_53:

(Start: 1 @28559 has 4 MA's), (5, 28418),

Gene: Zeigle\_50 Start: 28403, Stop: 28197, Start Num: 1

Candidate Starts for Zeigle\_50:

(Start: 1 @28403 has 4 MA's), (5, 28262),