



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 6320 Report

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

Pham number 6320 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Wayne3\_102, Phabia\_100, Wheelie\_100
- Track 2 : Tissue\_101
- Track 3 : Fizzles\_99
- Track 4 : WaterT\_124
- Track 5 : WaterT\_2
- Track 6 : Pumpernickel\_29, Pumpernickel\_330

### ***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 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Phabia\_100, Wayne3\_102, Wheelie\_100,

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

- Tissue\_101,

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

- Fizzles\_99, Pumpernickel\_29, Pumpernickel\_330, WaterT\_124, WaterT\_2,

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

Start 3:

- Found in 4 of 9 ( 44.4% ) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Phabia\_100 (EG), Wayne3\_102 (EG), Wheelie\_100 (EG),

Start 4:

- Found in 5 of 9 ( 55.6% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 40.0% of time when present

- Phage (with cluster) where this start called: Fizzles\_99 (EG), Tissue\_101 (EG),

Start 5:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WaterT\_124 (GB), WaterT\_2 (GB),

Start 6:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpernickel\_29 (GD4), Pumpernickel\_330 (GD4),

### **Summary by clusters:**

There are 3 clusters represented in this pham: EG, GD4, GB,

Info for manual annotations of cluster EG:

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

Info for manual annotations of cluster GB:

- Start number 5 was manually annotated 2 times for cluster GB.

Info for manual annotations of cluster GD4:

- Start number 6 was manually annotated 2 times for cluster GD4.

### **Gene Information:**

Gene: Fizzles\_99 Start: 59821, Stop: 59522, Start Num: 4

Candidate Starts for Fizzles\_99:

(Start: 4 @59821 has 1 MA's), (9, 59731), (12, 59602),

Gene: Phabia\_100 Start: 59602, Stop: 59294, Start Num: 3

Candidate Starts for Phabia\_100:

(Start: 3 @59602 has 3 MA's), (Start: 4 @59596 has 1 MA's), (9, 59503),

Gene: Pumpernickel\_29 Start: 11637, Stop: 11897, Start Num: 6

Candidate Starts for Pumpernickel\_29:

(2, 11598), (Start: 6 @11637 has 2 MA's), (7, 11658), (11, 11787), (12, 11817),

Gene: Pumpernickel\_330 Start: 177769, Stop: 178029, Start Num: 6

Candidate Starts for Pumpernickel\_330:

(2, 177730), (Start: 6 @177769 has 2 MA's), (7, 177790), (11, 177919), (12, 177949),

Gene: Tissue\_101 Start: 60366, Stop: 60064, Start Num: 4

Candidate Starts for Tissue\_101:

(Start: 3 @60372 has 3 MA's), (Start: 4 @60366 has 1 MA's), (9, 60273),

Gene: WaterT\_124 Start: 60186, Stop: 59896, Start Num: 5  
Candidate Starts for WaterT\_124:  
(Start: 5 @60186 has 2 MA's), (8, 60126), (10, 60039), (13, 59931),

Gene: WaterT\_2 Start: 641, Stop: 351, Start Num: 5  
Candidate Starts for WaterT\_2:  
(1, 698), (Start: 5 @641 has 2 MA's), (8, 581), (10, 494), (13, 386),

Gene: Wayne3\_102 Start: 60171, Stop: 59863, Start Num: 3  
Candidate Starts for Wayne3\_102:  
(Start: 3 @60171 has 3 MA's), (Start: 4 @60165 has 1 MA's), (9, 60072),

Gene: Wheelie\_100 Start: 59492, Stop: 59184, Start Num: 3  
Candidate Starts for Wheelie\_100:  
(Start: 3 @59492 has 3 MA's), (Start: 4 @59486 has 1 MA's), (9, 59393),