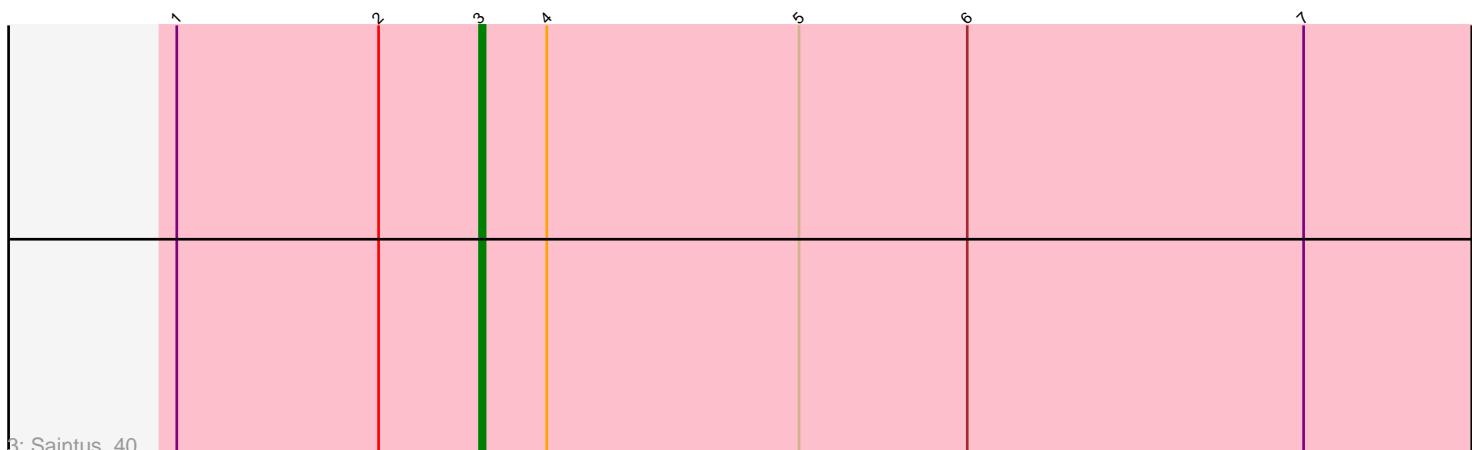
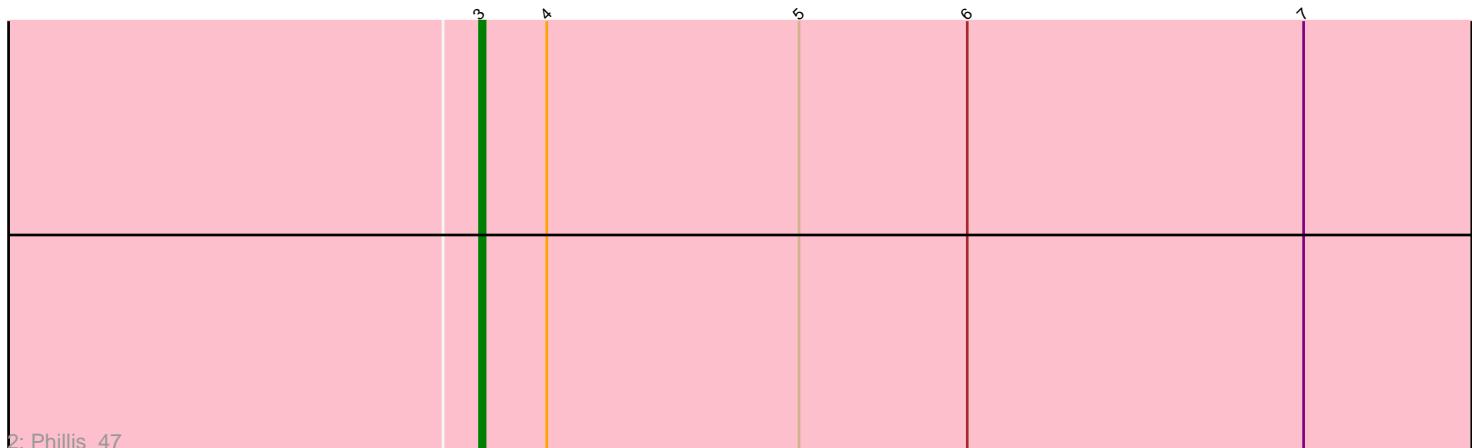
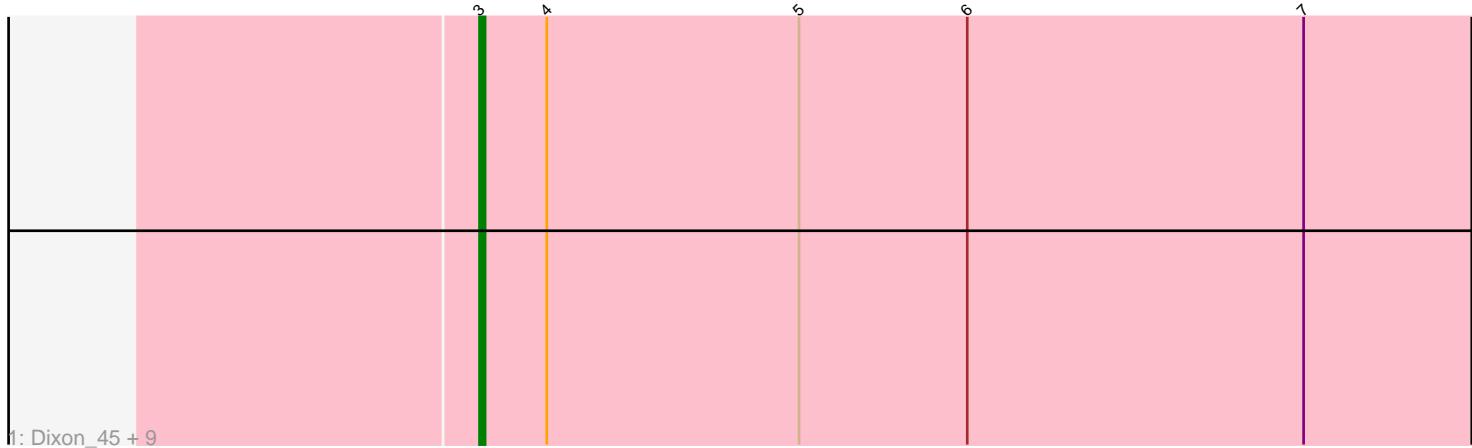


Pham 270088



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 270088 Report

This analysis was run 02/07/26 on database version 634.

Pham number 270088 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Dixon\_45, Smeadley\_46, NearlyHeadless\_45, Astro\_45, Danforth\_45, Groundhog\_44, Roary\_46, Stephig9\_46, Caitlin\_44, Expelliarmus\_45
- Track 2 : Phyllis\_47
- Track 3 : Saintus\_40

### ***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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Astro\_45, Caitlin\_44, Danforth\_45, Dixon\_45, Expelliarmus\_45, Groundhog\_44, NearlyHeadless\_45, Phyllis\_47, Roary\_46, Saintus\_40, Smeadley\_46, Stephig9\_46,

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 3:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro\_45 (A8), Caitlin\_44 (A8), Danforth\_45 (A8), Dixon\_45 (A8), Expelliarmus\_45 (A8), Groundhog\_44 (A8), NearlyHeadless\_45 (A8), Phyllis\_47 (A8), Roary\_46 (A8), Saintus\_40 (A8), Smeadley\_46 (A8), Stephig9\_46 (A8),

### **Summary by clusters:**

There is one cluster represented in this pham: A8

Info for manual annotations of cluster A8:

- Start number 3 was manually annotated 11 times for cluster A8.

***Gene Information:***

Gene: Astro\_45 Start: 31320, Stop: 31138, Start Num: 3

Candidate Starts for Astro\_45:

(Start: 3 @31320 has 11 MA's), (4, 31308), (5, 31263), (6, 31233), (7, 31173),

Gene: Caitlin\_44 Start: 31313, Stop: 31131, Start Num: 3

Candidate Starts for Caitlin\_44:

(Start: 3 @31313 has 11 MA's), (4, 31301), (5, 31256), (6, 31226), (7, 31166),

Gene: Danforth\_45 Start: 31349, Stop: 31167, Start Num: 3

Candidate Starts for Danforth\_45:

(Start: 3 @31349 has 11 MA's), (4, 31337), (5, 31292), (6, 31262), (7, 31202),

Gene: Dixon\_45 Start: 31222, Stop: 31040, Start Num: 3

Candidate Starts for Dixon\_45:

(Start: 3 @31222 has 11 MA's), (4, 31210), (5, 31165), (6, 31135), (7, 31075),

Gene: Expelliarmus\_45 Start: 31378, Stop: 31196, Start Num: 3

Candidate Starts for Expelliarmus\_45:

(Start: 3 @31378 has 11 MA's), (4, 31366), (5, 31321), (6, 31291), (7, 31231),

Gene: Groundhog\_44 Start: 31285, Stop: 31103, Start Num: 3

Candidate Starts for Groundhog\_44:

(Start: 3 @31285 has 11 MA's), (4, 31273), (5, 31228), (6, 31198), (7, 31138),

Gene: NearlyHeadless\_45 Start: 31124, Stop: 30942, Start Num: 3

Candidate Starts for NearlyHeadless\_45:

(Start: 3 @31124 has 11 MA's), (4, 31112), (5, 31067), (6, 31037), (7, 30977),

Gene: Phillis\_47 Start: 31667, Stop: 31485, Start Num: 3

Candidate Starts for Phillis\_47:

(Start: 3 @31667 has 11 MA's), (4, 31655), (5, 31610), (6, 31580), (7, 31520),

Gene: Roary\_46 Start: 31334, Stop: 31152, Start Num: 3

Candidate Starts for Roary\_46:

(Start: 3 @31334 has 11 MA's), (4, 31322), (5, 31277), (6, 31247), (7, 31187),

Gene: Saintus\_40 Start: 28055, Stop: 27873, Start Num: 3

Candidate Starts for Saintus\_40:

(1, 28109), (2, 28073), (Start: 3 @28055 has 11 MA's), (4, 28043), (5, 27998), (6, 27968), (7, 27908),

Gene: Smeadley\_46 Start: 31500, Stop: 31318, Start Num: 3

Candidate Starts for Smeadley\_46:

(Start: 3 @31500 has 11 MA's), (4, 31488), (5, 31443), (6, 31413), (7, 31353),

Gene: Stephig9\_46 Start: 31338, Stop: 31156, Start Num: 3

Candidate Starts for Stephig9\_46:

(Start: 3 @31338 has 11 MA's), (4, 31326), (5, 31281), (6, 31251), (7, 31191),