



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 27904 Report

This analysis was run 04/05/24 on database version 557.

Pham number 27904 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Nova\_51, KandZ\_51, Gumball\_51, Erk16\_51, SirHarley\_53, PLOT\_52
- Track 2 : Penelope2018\_52, Delton\_53, Helpful\_55
- Track 3 : Hawkeye\_55

### ***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 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Delton\_53, Erk16\_51, Gumball\_51, Hawkeye\_55, Helpful\_55, KandZ\_51, Nova\_51, PLOT\_52, Penelope2018\_52, SirHarley\_53,

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 2:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Delton\_53 (D1), Erk16\_51 (D1), Gumball\_51 (D1), Hawkeye\_55 (D2), Helpful\_55 (D1), KandZ\_51 (D1), Nova\_51 (D1), PLOT\_52 (D1), Penelope2018\_52 (D1), SirHarley\_53 (D1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: D2, D1,

Info for manual annotations of cluster D1:

- Start number 2 was manually annotated 9 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 2 was manually annotated 1 time for cluster D2.

***Gene Information:***

Gene: Delton\_53 Start: 39867, Stop: 40130, Start Num: 2

Candidate Starts for Delton\_53:

(Start: 2 @39867 has 10 MA's), (3, 39882), (4, 39909),

Gene: Erk16\_51 Start: 39627, Stop: 39878, Start Num: 2

Candidate Starts for Erk16\_51:

(Start: 2 @39627 has 10 MA's), (6, 39762), (8, 39819),

Gene: Gumball\_51 Start: 39675, Stop: 39926, Start Num: 2

Candidate Starts for Gumball\_51:

(Start: 2 @39675 has 10 MA's), (6, 39810), (8, 39867),

Gene: Hawkeye\_55 Start: 39300, Stop: 39563, Start Num: 2

Candidate Starts for Hawkeye\_55:

(1, 39276), (Start: 2 @39300 has 10 MA's), (5, 39396), (7, 39459),

Gene: Helpful\_55 Start: 39842, Stop: 40105, Start Num: 2

Candidate Starts for Helpful\_55:

(Start: 2 @39842 has 10 MA's), (3, 39857), (4, 39884),

Gene: KandZ\_51 Start: 39609, Stop: 39860, Start Num: 2

Candidate Starts for KandZ\_51:

(Start: 2 @39609 has 10 MA's), (6, 39744), (8, 39801),

Gene: Nova\_51 Start: 39935, Stop: 40186, Start Num: 2

Candidate Starts for Nova\_51:

(Start: 2 @39935 has 10 MA's), (6, 40070), (8, 40127),

Gene: PLOT\_52 Start: 39508, Stop: 39759, Start Num: 2

Candidate Starts for PLOT\_52:

(Start: 2 @39508 has 10 MA's), (6, 39643), (8, 39700),

Gene: Penelope2018\_52 Start: 39514, Stop: 39777, Start Num: 2

Candidate Starts for Penelope2018\_52:

(Start: 2 @39514 has 10 MA's), (3, 39529), (4, 39556),

Gene: SirHarley\_53 Start: 39657, Stop: 39908, Start Num: 2

Candidate Starts for SirHarley\_53:

(Start: 2 @39657 has 10 MA's), (6, 39792), (8, 39849),