



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 6537 Report

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

Pham number 6537 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Dori\_85, Mao1\_90
- Track 2 : Mask\_88, Sejanus\_90
- Track 3 : Syra333\_93, Sunflower1121\_94, Phrank\_97, TribeTrouble\_92, Tierra\_97, Krueger\_94, Shadow1\_94
- Track 4 : Hammy\_89, MacnCheese\_93

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

Genes that call this "Most Annotated" start:

- Hammy\_89, Krueger\_94, MacnCheese\_93, Phrank\_97, Shadow1\_94, Sunflower1121\_94, Syra333\_93, Tierra\_97, TribeTrouble\_92,

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:

- Dori\_85, Mao1\_90, Mask\_88, Sejanus\_90,

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

Start 1:

- Found in 9 of 13 ( 69.2% ) of genes in pham
- Manual Annotations of this start: 9 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hammy\_89 (K6), Krueger\_94 (K6), MacnCheese\_93 (K3), Phrank\_97 (K6), Shadow1\_94 (K6), Sunflower1121\_94 (K6), Syra333\_93 (K6), Tierra\_97 (K6), TribeTrouble\_92 (K3),

Start 2:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 1 of 12

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dori\_85 (AD), Mao1\_90 (AD),

Start 3:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mask\_88 (AD), Sejanus\_90 (AD),

### **Summary by clusters:**

There are 3 clusters represented in this pham: K3, K6, AD,

Info for manual annotations of cluster AD:

- Start number 2 was manually annotated 1 time for cluster AD.
- Start number 3 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster K3:

- Start number 1 was manually annotated 2 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 1 was manually annotated 7 times for cluster K6.

### **Gene Information:**

Gene: Dori\_85 Start: 59834, Stop: 59992, Start Num: 2

Candidate Starts for Dori\_85:

(Start: 2 @59834 has 1 MA's), (5, 59900),

Gene: Hammy\_89 Start: 58164, Stop: 58340, Start Num: 1

Candidate Starts for Hammy\_89:

(Start: 1 @58164 has 9 MA's), (4, 58218), (6, 58284),

Gene: Krueger\_94 Start: 57539, Stop: 57715, Start Num: 1

Candidate Starts for Krueger\_94:

(Start: 1 @57539 has 9 MA's), (4, 57593),

Gene: MacnCheese\_93 Start: 57608, Stop: 57784, Start Num: 1

Candidate Starts for MacnCheese\_93:

(Start: 1 @57608 has 9 MA's), (4, 57662), (6, 57728),

Gene: Mao1\_90 Start: 58936, Stop: 59094, Start Num: 2

Candidate Starts for Mao1\_90:

(Start: 2 @58936 has 1 MA's), (5, 59002),

Gene: Mask\_88 Start: 61575, Stop: 61721, Start Num: 3

Candidate Starts for Mask\_88:

(Start: 3 @61575 has 2 MA's),

Gene: Phrank\_97 Start: 58328, Stop: 58504, Start Num: 1

Candidate Starts for Phrank\_97:

(Start: 1 @58328 has 9 MA's), (4, 58382),

Gene: Sejanus\_90 Start: 60595, Stop: 60741, Start Num: 3

Candidate Starts for Sejanus\_90:

(Start: 3 @60595 has 2 MA's),

Gene: Shadow1\_94 Start: 57674, Stop: 57850, Start Num: 1

Candidate Starts for Shadow1\_94:

(Start: 1 @57674 has 9 MA's), (4, 57728),

Gene: Sunflower1121\_94 Start: 57433, Stop: 57609, Start Num: 1

Candidate Starts for Sunflower1121\_94:

(Start: 1 @57433 has 9 MA's), (4, 57487),

Gene: Syra333\_93 Start: 57495, Stop: 57671, Start Num: 1

Candidate Starts for Syra333\_93:

(Start: 1 @57495 has 9 MA's), (4, 57549),

Gene: Tierra\_97 Start: 58961, Stop: 59137, Start Num: 1

Candidate Starts for Tierra\_97:

(Start: 1 @58961 has 9 MA's), (4, 59015),

Gene: TribbleTrouble\_92 Start: 58504, Stop: 58680, Start Num: 1

Candidate Starts for TribbleTrouble\_92:

(Start: 1 @58504 has 9 MA's), (4, 58558),