



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 158342 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158342 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Chris\_2
- Track 2 : Phrank\_2, Tierra\_2
- Track 3 : Shadow1\_2
- Track 4 : Cain\_2, Bryler\_2
- Track 5 : Krueger\_3
- Track 6 : Yuna\_3
- Track 7 : Syra333\_3
- Track 8 : Sunflower1121\_2
- Track 9 : DyoEdafos\_104

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

The start number called the most often in the published annotations is 8, it was called in 8 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bryler\_2, Cain\_2, Krueger\_3, Phrank\_2, Shadow1\_2, Syra333\_3, Tierra\_2, Yuna\_3,

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

- Sunflower1121\_2,

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

- Chris\_2, DyoEdafos\_104,

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

Start 4:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Sunflower1121\_2 (K6),

Start 6:

- Found in 1 of 11 ( 9.1% ) of genes in pham

- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chris\_2 (K1),

Start 8:

- Found in 9 of 11 ( 81.8% ) of genes in pham
- Manual Annotations of this start: 8 of 11
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Bryler\_2 (K6), Cain\_2 (K6), Krueger\_3 (K6), Phrank\_2 (K6), Shadow1\_2 (K6), Syra333\_3 (K6), Tierra\_2 (K6), Yuna\_3 (K6),

Start 9:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DyoEdafos\_104 (L4),

### **Summary by clusters:**

There are 3 clusters represented in this pham: K1, L4, K6,

Info for manual annotations of cluster K1:

- Start number 6 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K6:

- Start number 4 was manually annotated 1 time for cluster K6.
- Start number 8 was manually annotated 8 times for cluster K6.

Info for manual annotations of cluster L4:

- Start number 9 was manually annotated 1 time for cluster L4.

### **Gene Information:**

Gene: Bryler\_2 Start: 388, Stop: 648, Start Num: 8

Candidate Starts for Bryler\_2:

(2, 241), (Start: 8 @388 has 8 MA's), (11, 472), (15, 523),

Gene: Cain\_2 Start: 388, Stop: 648, Start Num: 8

Candidate Starts for Cain\_2:

(2, 241), (Start: 8 @388 has 8 MA's), (11, 472), (15, 523),

Gene: Chris\_2 Start: 375, Stop: 665, Start Num: 6

Candidate Starts for Chris\_2:

(5, 369), (Start: 6 @375 has 1 MA's), (7, 411), (11, 507), (17, 609), (18, 618), (19, 621),

Gene: DyoEdafos\_104 Start: 61681, Stop: 61965, Start Num: 9

Candidate Starts for DyoEdafos\_104:

(Start: 9 @61681 has 1 MA's), (10, 61684), (14, 61828), (16, 61852), (21, 61924),

Gene: Krueger\_3 Start: 500, Stop: 760, Start Num: 8

Candidate Starts for Krueger\_3:

(Start: 8 @500 has 8 MA's), (11, 584), (15, 635), (20, 719),

Gene: Phrank\_2 Start: 394, Stop: 654, Start Num: 8

Candidate Starts for Phrank\_2:

(2, 247), (Start: 8 @394 has 8 MA's), (11, 478), (15, 529),

Gene: Shadow1\_2 Start: 396, Stop: 665, Start Num: 8

Candidate Starts for Shadow1\_2:

(Start: 4 @330 has 1 MA's), (Start: 8 @396 has 8 MA's),

Gene: Sunflower1121\_2 Start: 329, Stop: 664, Start Num: 4

Candidate Starts for Sunflower1121\_2:

(Start: 4 @329 has 1 MA's), (Start: 8 @395 has 8 MA's),

Gene: Syra333\_3 Start: 509, Stop: 769, Start Num: 8

Candidate Starts for Syra333\_3:

(Start: 8 @509 has 8 MA's), (11, 593), (15, 644), (20, 728),

Gene: Tierra\_2 Start: 395, Stop: 655, Start Num: 8

Candidate Starts for Tierra\_2:

(2, 248), (Start: 8 @395 has 8 MA's), (11, 479), (15, 530),

Gene: Yuna\_3 Start: 525, Stop: 797, Start Num: 8

Candidate Starts for Yuna\_3:

(1, 201), (3, 378), (Start: 8 @525 has 8 MA's), (12, 627), (13, 657), (20, 756),