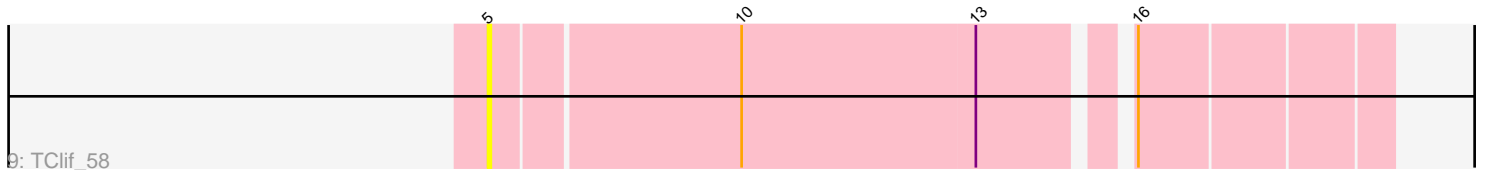
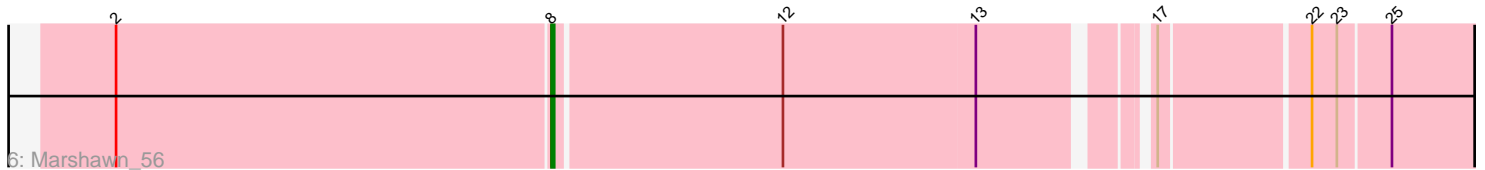
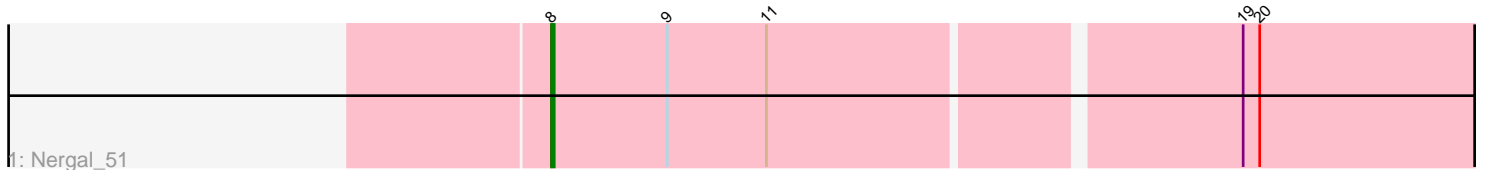


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 156738 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156738 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Nergal\_51
- Track 2 : Ageofdapage\_56
- Track 3 : Curiosium\_56
- Track 4 : PhelpsODU\_56, Krueger\_61, Unicorn\_56
- Track 5 : Bryler\_58, Cain\_58, Phrank\_58, Tierra\_58
- Track 6 : Marshawn\_56
- Track 7 : Sunflower1121\_61, Shadow1\_60
- Track 8 : Ximenita\_61, Syra333\_60
- Track 9 : TClif\_58

### ***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 4 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ageofdapage\_56, Curiosium\_56, Marshawn\_56, Nergal\_51,

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

- 

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

- Bryler\_58, Cain\_58, Krueger\_61, PhelpsODU\_56, Phrank\_58, Shadow1\_60, Sunflower1121\_61, Syra333\_60, TClif\_58, Tierra\_58, Unicorn\_56, Ximenita\_61,

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

Start 4:

- Found in 4 of 16 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 4 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shadow1\_60 (K6), Sunflower1121\_61 (K6), Syra333\_60 (K6), Ximenita\_61 (K6),

Start 5:

- Found in 4 of 16 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Krueger\_61 (K6), PhelpsODU\_56 (K6), TClif\_58 (K6), Unicorn\_56 (K6),

Start 6:

- Found in 4 of 16 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 4 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bryler\_58 (K6), Cain\_58 (K6), Phrank\_58 (K6), Tierra\_58 (K6),

Start 8:

- Found in 4 of 16 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 4 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ageofdapage\_56 (K1), Curiosium\_56 (K1), Marshawn\_56 (K6), Nergal\_51 (AG),

**Summary by clusters:**

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

Info for manual annotations of cluster AG:

- Start number 8 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster K1:

- Start number 8 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 4 was manually annotated 4 times for cluster K6.
- Start number 5 was manually annotated 3 times for cluster K6.
- Start number 6 was manually annotated 4 times for cluster K6.
- Start number 8 was manually annotated 1 time for cluster K6.

**Gene Information:**

Gene: Ageofdapage\_56 Start: 40108, Stop: 40389, Start Num: 8

Candidate Starts for Ageofdapage\_56:

(1, 39943), (3, 39994), (Start: 8 @40108 has 4 MA's), (21, 40354),

Gene: Bryler\_58 Start: 38878, Stop: 39183, Start Num: 6

Candidate Starts for Bryler\_58:

(Start: 6 @38878 has 4 MA's), (14, 39082), (15, 39085),

Gene: Cain\_58 Start: 38866, Stop: 39171, Start Num: 6

Candidate Starts for Cain\_58:

(Start: 6 @38866 has 4 MA's), (14, 39070), (15, 39073),

Gene: Curiosium\_56 Start: 38035, Stop: 38376, Start Num: 8

Candidate Starts for Curiosium\_56:

(Start: 8 @38035 has 4 MA's), (16, 38242), (24, 38320),

Gene: Krueger\_61 Start: 39855, Stop: 40163, Start Num: 5

Candidate Starts for Krueger\_61:

(Start: 5 @39855 has 3 MA's), (14, 40062), (15, 40065),

Gene: Marshawn\_56 Start: 39609, Stop: 39935, Start Num: 8

Candidate Starts for Marshawn\_56:

(2, 39453), (Start: 8 @39609 has 4 MA's), (12, 39690), (13, 39759), (17, 39810), (22, 39861), (23, 39870), (25, 39888),

Gene: Nergal\_51 Start: 37133, Stop: 37462, Start Num: 8

Candidate Starts for Nergal\_51:

(Start: 8 @37133 has 4 MA's), (9, 37175), (11, 37211), (19, 37373), (20, 37379),

Gene: PhelpsODU\_56 Start: 38793, Stop: 39101, Start Num: 5

Candidate Starts for PhelpsODU\_56:

(Start: 5 @38793 has 3 MA's), (14, 39000), (15, 39003),

Gene: Phrank\_58 Start: 38856, Stop: 39161, Start Num: 6

Candidate Starts for Phrank\_58:

(Start: 6 @38856 has 4 MA's), (14, 39060), (15, 39063),

Gene: Shadow1\_60 Start: 39700, Stop: 40008, Start Num: 4

Candidate Starts for Shadow1\_60:

(Start: 4 @39700 has 4 MA's), (7, 39721), (14, 39913), (15, 39916), (18, 39946),

Gene: Sunflower1121\_61 Start: 39846, Stop: 40154, Start Num: 4

Candidate Starts for Sunflower1121\_61:

(Start: 4 @39846 has 4 MA's), (7, 39867), (14, 40059), (15, 40062), (18, 40092),

Gene: Syra333\_60 Start: 39867, Stop: 40175, Start Num: 4

Candidate Starts for Syra333\_60:

(Start: 4 @39867 has 4 MA's), (7, 39888), (14, 40080), (15, 40083), (18, 40113),

Gene: TClif\_58 Start: 39529, Stop: 39831, Start Num: 5

Candidate Starts for TClif\_58:

(Start: 5 @39529 has 3 MA's), (10, 39616), (13, 39700), (16, 39745),

Gene: Tierra\_58 Start: 39667, Stop: 39972, Start Num: 6

Candidate Starts for Tierra\_58:

(Start: 6 @39667 has 4 MA's), (14, 39871), (15, 39874),

Gene: Unicorn\_56 Start: 38793, Stop: 39101, Start Num: 5

Candidate Starts for Unicorn\_56:

(Start: 5 @38793 has 3 MA's), (14, 39000), (15, 39003),

Gene: Ximenita\_61 Start: 39864, Stop: 40172, Start Num: 4

Candidate Starts for Ximenita\_61:

(Start: 4 @39864 has 4 MA's), (7, 39885), (14, 40077), (15, 40080), (18, 40110),