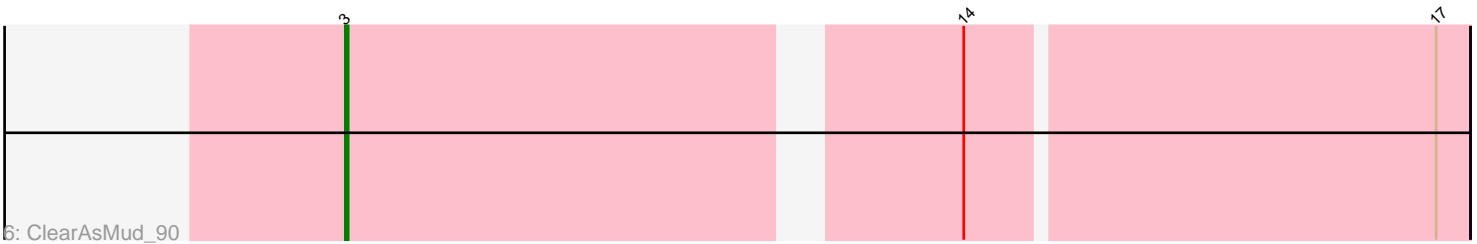
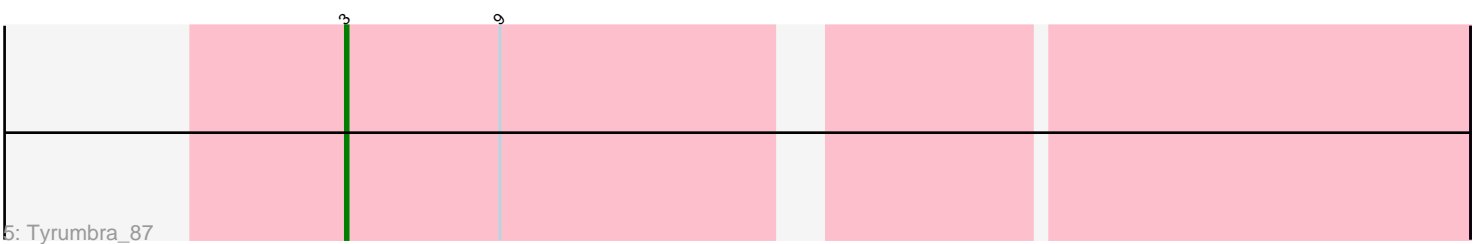
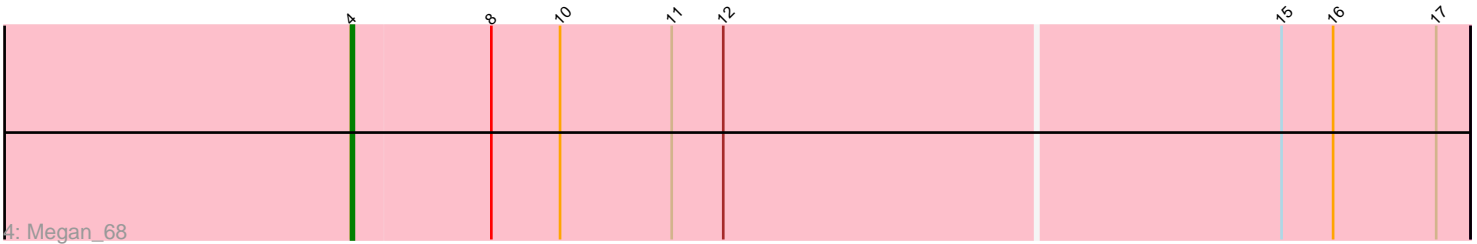
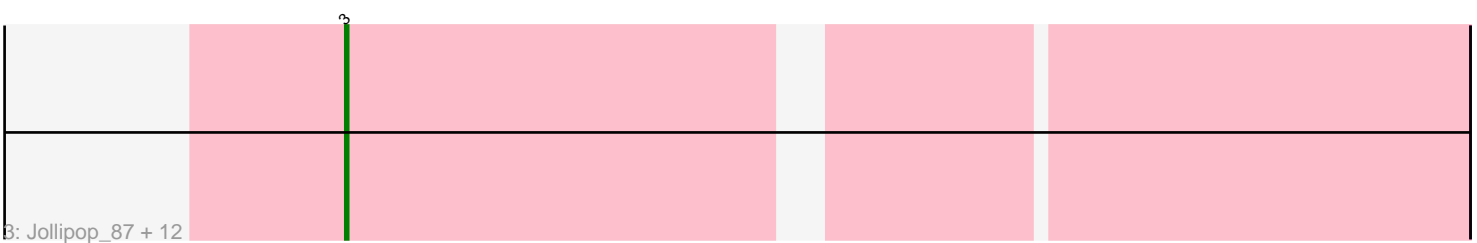
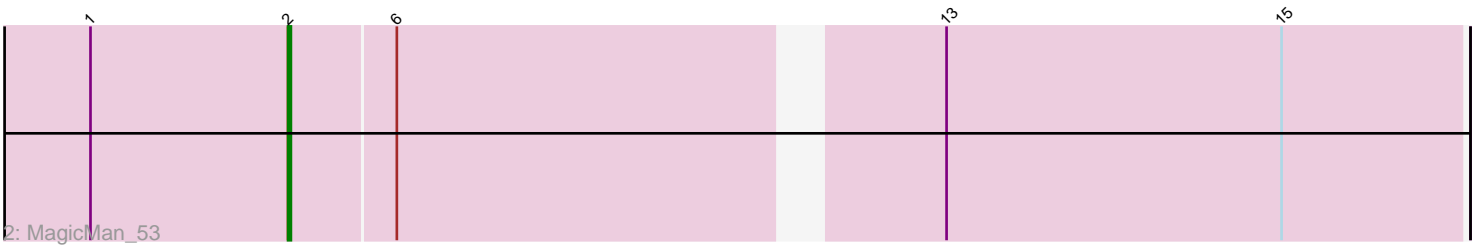
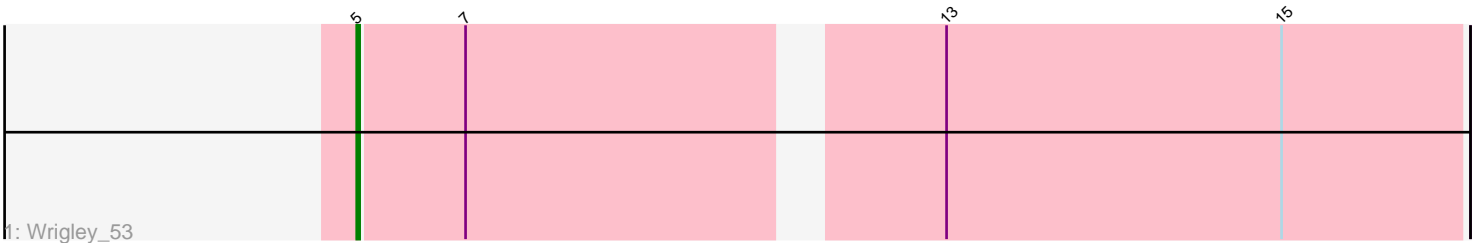


Pham 86950



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 86950 Report

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

Pham number 86950 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Wrigley\_53
- Track 2 : MagicMan\_53
- Track 3 : Jollipop\_87, Cranjis\_88, BrazzalePHS\_87, Savannah\_86, Hermeonysus\_87, Scumberland\_89, Ramiel05\_87, Jefe\_88, Paschalis\_87, Kowalski\_87, Shotgun\_87, Onika\_87, PiperSansNom\_89
- Track 4 : Megan\_68
- Track 5 : Tyumbra\_87
- Track 6 : ClearAsMud\_90

### ***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 13 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BrazzalePHS\_87, ClearAsMud\_90, Cranjis\_88, Hermeonysus\_87, Jefe\_88, Jollipop\_87, Kowalski\_87, Onika\_87, Paschalis\_87, PiperSansNom\_89, Ramiel05\_87, Savannah\_86, Scumberland\_89, Shotgun\_87, Tyumbra\_87,

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

- 

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

- MagicMan\_53, Megan\_68, Wrigley\_53,

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

Start 2:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MagicMan\_53 (DB),

Start 3:

- Found in 15 of 18 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 13 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrazzalePHS\_87 (EC), ClearAsMud\_90 (EC), Cranjis\_88 (EC), Hermeonysus\_87 (EC), Jefe\_88 (EC), Jollipop\_87 (EC), Kowalski\_87 (EC), Onika\_87 (EC), Paschalis\_87 (EC), PiperSansNom\_89 (EC), Ramiel05\_87 (EC), Savannah\_86 (EC), Scumberland\_89 (EC), Shotgun\_87 (EC), Tyumbra\_87 (EC),

Start 4:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan\_68 (EC),

Start 5:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wrigley\_53 (CY),

### **Summary by clusters:**

There are 3 clusters represented in this pham: CY, DB, EC,

Info for manual annotations of cluster CY:

- Start number 5 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster DB:

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

Info for manual annotations of cluster EC:

- Start number 3 was manually annotated 13 times for cluster EC.
- Start number 4 was manually annotated 1 time for cluster EC.

### **Gene Information:**

Gene: BrazzalePHS\_87 Start: 51967, Stop: 52335, Start Num: 3

Candidate Starts for BrazzalePHS\_87:

(Start: 3 @51967 has 13 MA's),

Gene: ClearAsMud\_90 Start: 51973, Stop: 52341, Start Num: 3

Candidate Starts for ClearAsMud\_90:

(Start: 3 @51973 has 13 MA's), (14, 52171), (17, 52330),

Gene: Cranjis\_88 Start: 51934, Stop: 52302, Start Num: 3

Candidate Starts for Cranjis\_88:

(Start: 3 @51934 has 13 MA's),

Gene: Hermeonysus\_87 Start: 51655, Stop: 52023, Start Num: 3

Candidate Starts for Hermeonysus\_87:

(Start: 3 @51655 has 13 MA's),

Gene: Jefe\_88 Start: 51930, Stop: 52298, Start Num: 3

Candidate Starts for Jefe\_88:

(Start: 3 @51930 has 13 MA's),

Gene: Jollipop\_87 Start: 52075, Stop: 52443, Start Num: 3

Candidate Starts for Jollipop\_87:

(Start: 3 @52075 has 13 MA's),

Gene: Kowalski\_87 Start: 51962, Stop: 52330, Start Num: 3

Candidate Starts for Kowalski\_87:

(Start: 3 @51962 has 13 MA's),

Gene: MagicMan\_53 Start: 37884, Stop: 38273, Start Num: 2

Candidate Starts for MagicMan\_53:

(1, 37815), (Start: 2 @37884 has 1 MA's), (6, 37920), (13, 38094), (15, 38211),

Gene: Megan\_68 Start: 47434, Stop: 47820, Start Num: 4

Candidate Starts for Megan\_68:

(Start: 4 @47434 has 1 MA's), (8, 47482), (10, 47506), (11, 47545), (12, 47563), (15, 47755), (16, 47773), (17, 47809),

Gene: Onika\_87 Start: 51933, Stop: 52301, Start Num: 3

Candidate Starts for Onika\_87:

(Start: 3 @51933 has 13 MA's),

Gene: Paschalis\_87 Start: 51740, Stop: 52108, Start Num: 3

Candidate Starts for Paschalis\_87:

(Start: 3 @51740 has 13 MA's),

Gene: PiperSansNom\_89 Start: 52263, Stop: 52631, Start Num: 3

Candidate Starts for PiperSansNom\_89:

(Start: 3 @52263 has 13 MA's),

Gene: Ramiel05\_87 Start: 51962, Stop: 52330, Start Num: 3

Candidate Starts for Ramiel05\_87:

(Start: 3 @51962 has 13 MA's),

Gene: Savannah\_86 Start: 51934, Stop: 52302, Start Num: 3

Candidate Starts for Savannah\_86:

(Start: 3 @51934 has 13 MA's),

Gene: Scumberland\_89 Start: 51988, Stop: 52356, Start Num: 3

Candidate Starts for Scumberland\_89:

(Start: 3 @51988 has 13 MA's),

Gene: Shotgun\_87 Start: 51464, Stop: 51832, Start Num: 3

Candidate Starts for Shotgun\_87:

(Start: 3 @51464 has 13 MA's),

Gene: Tyrumbra\_87 Start: 52425, Stop: 52793, Start Num: 3

Candidate Starts for Tyrumbra\_87:

(Start: 3 @52425 has 13 MA's), (9, 52479),

Gene: Wrigley\_53 Start: 37696, Stop: 38061, Start Num: 5

Candidate Starts for Wrigley\_53:

(Start: 5 @37696 has 1 MA's), (7, 37732), (13, 37882), (15, 37999),