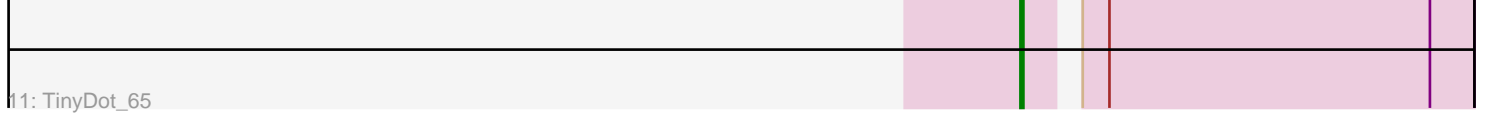
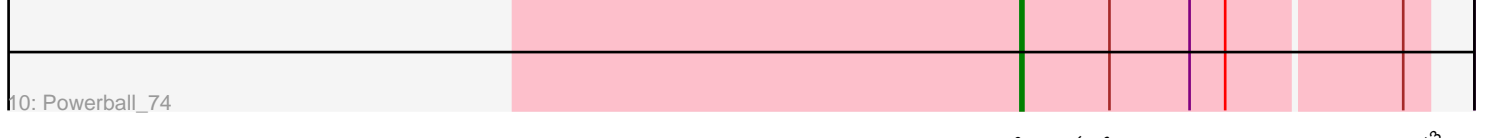
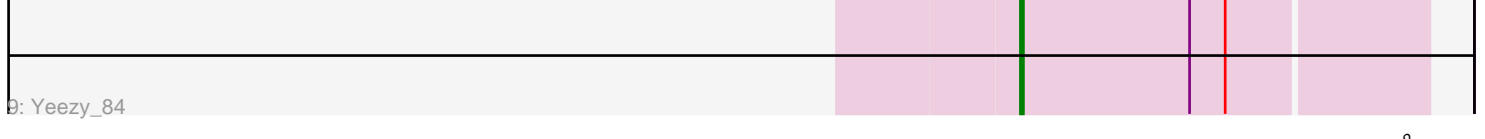
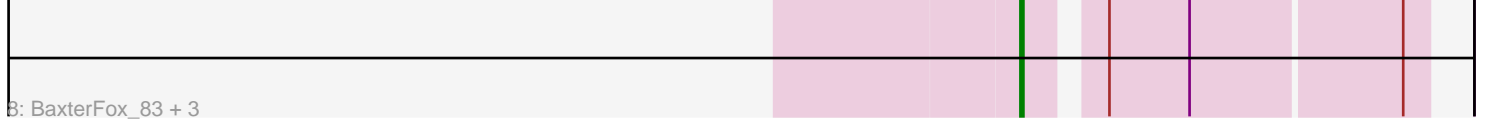
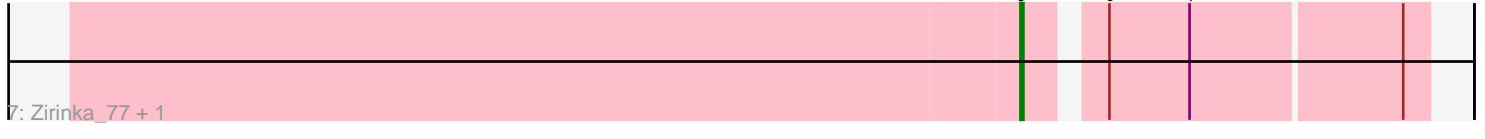
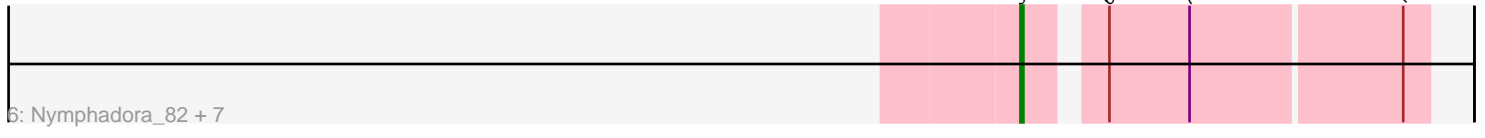
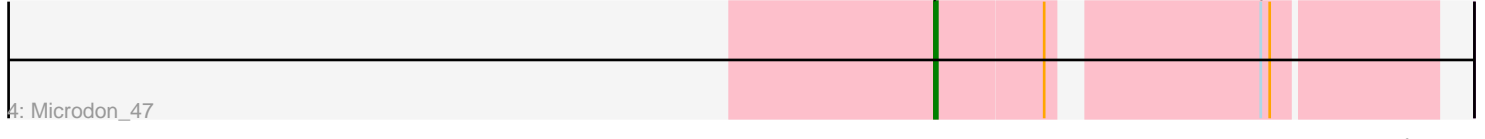
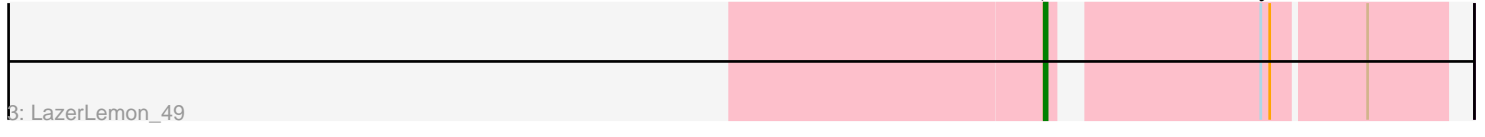
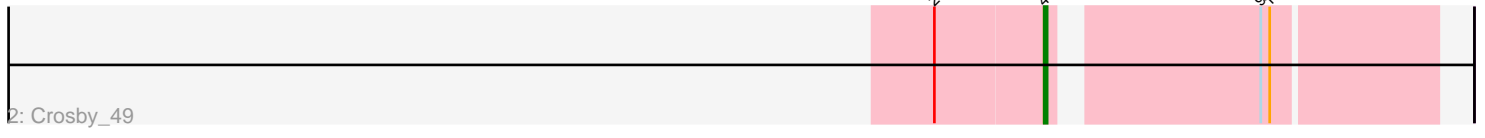
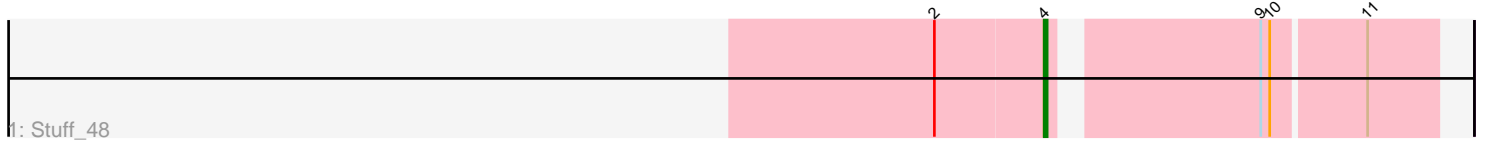


Pham 305302



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 305302 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305302 has 22 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Stuff\_48
- Track 2 : Crosby\_49
- Track 3 : LazerLemon\_49
- Track 4 : Microdon\_47
- Track 5 : SushiChef\_80
- Track 6 : Nymphadora\_82, Agueybana\_83, TimTam\_82, Hugley\_80, Eviarto\_82, BatStarr\_81, Bosnia\_80, Herod\_82
- Track 7 : Zirinka\_77, Bialota\_77
- Track 8 : BaxterFox\_83, AlumE\_80, BoyNamedSue\_80, Ohgeesy\_82
- Track 9 : Yeezy\_84
- Track 10 : Powerball\_74
- Track 11 : TinyDot\_65

### ***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 16 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana\_83, AlumE\_80, BatStarr\_81, BaxterFox\_83, Bialota\_77, Bosnia\_80, BoyNamedSue\_80, Eviarto\_82, Herod\_82, Hugley\_80, Nymphadora\_82, Ohgeesy\_82, Powerball\_74, SushiChef\_80, TimTam\_82, TinyDot\_65, Yeezy\_84, Zirinka\_77,

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

- 

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

- Crosby\_49, LazerLemon\_49, Microdon\_47, Stuff\_48,

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

Start 2:

- Found in 3 of 22 ( 13.6% ) of genes in pham

- Manual Annotations of this start: 1 of 20
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Microdon\_47 (BH),

#### Start 3:

- Found in 18 of 22 ( 81.8% ) of genes in pham
- Manual Annotations of this start: 16 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana\_83 (CZ1), AlumE\_80 (CZ1), BatStarr\_81 (CZ1), BaxterFox\_83 (CZ3), Bialota\_77 (CZ1), Bosnia\_80 (CZ1), BoyNamedSue\_80 (CZ1), Eviarto\_82 (CZ1), Herod\_82 (CZ1), Hugley\_80 (CZ1), Nymphadora\_82 (CZ1), Ohgeesy\_82 (CZ), Powerball\_74 (CZ4), SushiChef\_80 (CZ), TimTam\_82 (CZ1), TinyDot\_65 (singleton), Yeezy\_84 (CZ3), Zirinka\_77 (CZ1),

#### Start 4:

- Found in 4 of 22 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Crosby\_49 (BH), LazerLemon\_49 (BH), Stuff\_48 (BH),

### **Summary by clusters:**

There are 6 clusters represented in this pham: singleton, CZ3, CZ1, BH, CZ4, CZ,

Info for manual annotations of cluster BH:

- Start number 2 was manually annotated 1 time for cluster BH.
- Start number 4 was manually annotated 3 times for cluster BH.

Info for manual annotations of cluster CZ:

- Start number 3 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 3 was manually annotated 11 times for cluster CZ1.

Info for manual annotations of cluster CZ3:

- Start number 3 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 3 was manually annotated 1 time for cluster CZ4.

### **Gene Information:**

Gene: Agueybana\_83 Start: 51988, Stop: 52113, Start Num: 3

Candidate Starts for Agueybana\_83:

(Start: 3 @51988 has 16 MA's), (6, 52009), (7, 52036), (12, 52105),

Gene: AlumE\_80 Start: 51879, Stop: 52004, Start Num: 3

Candidate Starts for AlumE\_80:

(Start: 3 @51879 has 16 MA's), (6, 51900), (7, 51927), (12, 51996),

Gene: BatStarr\_81 Start: 52613, Stop: 52738, Start Num: 3  
Candidate Starts for BatStarr\_81:  
(Start: 3 @52613 has 16 MA's), (6, 52634), (7, 52661), (12, 52730),

Gene: BaxterFox\_83 Start: 52809, Stop: 52934, Start Num: 3  
Candidate Starts for BaxterFox\_83:  
(Start: 3 @52809 has 16 MA's), (6, 52830), (7, 52857), (12, 52926),

Gene: Bialota\_77 Start: 51273, Stop: 51398, Start Num: 3  
Candidate Starts for Bialota\_77:  
(Start: 3 @51273 has 16 MA's), (6, 51294), (7, 51321), (12, 51390),

Gene: Bosnia\_80 Start: 53727, Stop: 53852, Start Num: 3  
Candidate Starts for Bosnia\_80:  
(Start: 3 @53727 has 16 MA's), (6, 53748), (7, 53775), (12, 53844),

Gene: BoyNamedSue\_80 Start: 51879, Stop: 52004, Start Num: 3  
Candidate Starts for BoyNamedSue\_80:  
(Start: 3 @51879 has 16 MA's), (6, 51900), (7, 51927), (12, 51996),

Gene: Crosby\_49 Start: 35531, Stop: 35650, Start Num: 4  
Candidate Starts for Crosby\_49:  
(Start: 2 @35495 has 1 MA's), (Start: 4 @35531 has 3 MA's), (9, 35594), (10, 35597),

Gene: Eviarto\_82 Start: 52588, Stop: 52713, Start Num: 3  
Candidate Starts for Eviarto\_82:  
(Start: 3 @52588 has 16 MA's), (6, 52609), (7, 52636), (12, 52705),

Gene: Herod\_82 Start: 53007, Stop: 53132, Start Num: 3  
Candidate Starts for Herod\_82:  
(Start: 3 @53007 has 16 MA's), (6, 53028), (7, 53055), (12, 53124),

Gene: Hugley\_80 Start: 52987, Stop: 53112, Start Num: 3  
Candidate Starts for Hugley\_80:  
(Start: 3 @52987 has 16 MA's), (6, 53008), (7, 53035), (12, 53104),

Gene: LazerLemon\_49 Start: 35882, Stop: 36004, Start Num: 4  
Candidate Starts for LazerLemon\_49:  
(Start: 4 @35882 has 3 MA's), (9, 35945), (10, 35948), (11, 35978),

Gene: Microdon\_47 Start: 35242, Stop: 35397, Start Num: 2  
Candidate Starts for Microdon\_47:  
(Start: 2 @35242 has 1 MA's), (Start: 4 @35278 has 3 MA's), (9, 35341), (10, 35344),

Gene: Nymphadora\_82 Start: 52612, Stop: 52737, Start Num: 3  
Candidate Starts for Nymphadora\_82:  
(Start: 3 @52612 has 16 MA's), (6, 52633), (7, 52660), (12, 52729),

Gene: Ohgeesy\_82 Start: 52151, Stop: 52276, Start Num: 3  
Candidate Starts for Ohgeesy\_82:  
(Start: 3 @52151 has 16 MA's), (6, 52172), (7, 52199), (12, 52268),

Gene: Powerball\_74 Start: 46806, Stop: 46940, Start Num: 3

Candidate Starts for Powerball\_74:

(Start: 3 @46806 has 16 MA's), (6, 46836), (7, 46863), (8, 46875), (12, 46932),

Gene: Stuff\_48 Start: 35770, Stop: 35889, Start Num: 4

Candidate Starts for Stuff\_48:

(Start: 2 @35734 has 1 MA's), (Start: 4 @35770 has 3 MA's), (9, 35833), (10, 35836), (11, 35866),

Gene: SushiChef\_80 Start: 51989, Stop: 52114, Start Num: 3

Candidate Starts for SushiChef\_80:

(1, 51680), (Start: 3 @51989 has 16 MA's), (6, 52010), (7, 52037), (12, 52106),

Gene: TimTam\_82 Start: 52612, Stop: 52737, Start Num: 3

Candidate Starts for TimTam\_82:

(Start: 3 @52612 has 16 MA's), (6, 52633), (7, 52660), (12, 52729),

Gene: TinyDot\_65 Start: 39794, Stop: 39937, Start Num: 3

Candidate Starts for TinyDot\_65:

(Start: 3 @39794 has 16 MA's), (5, 39806), (6, 39815), (13, 39923),

Gene: Yeezy\_84 Start: 50665, Stop: 50799, Start Num: 3

Candidate Starts for Yeezy\_84:

(Start: 3 @50665 has 16 MA's), (7, 50722), (8, 50734),

Gene: Zirinka\_77 Start: 51261, Stop: 51386, Start Num: 3

Candidate Starts for Zirinka\_77:

(Start: 3 @51261 has 16 MA's), (6, 51282), (7, 51309), (12, 51378),