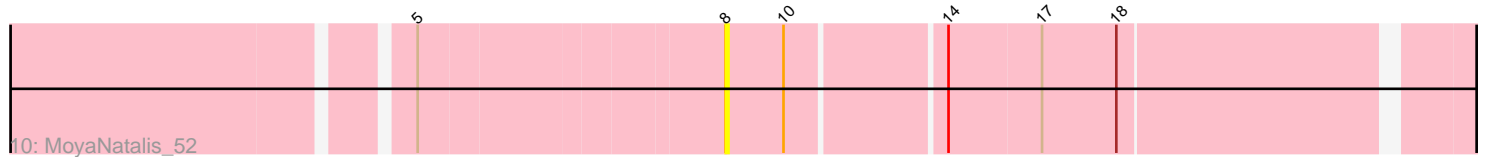
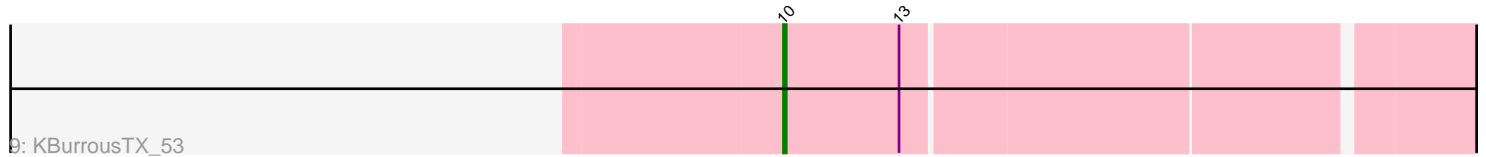
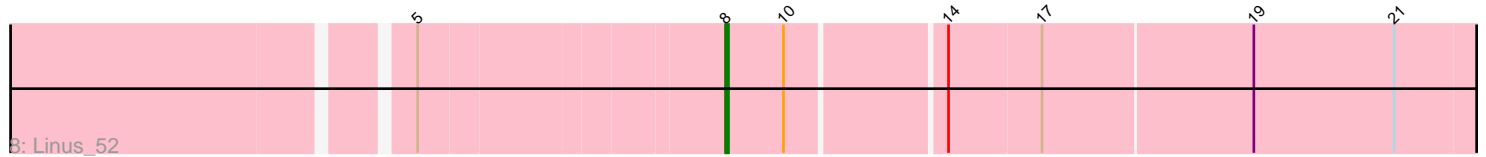
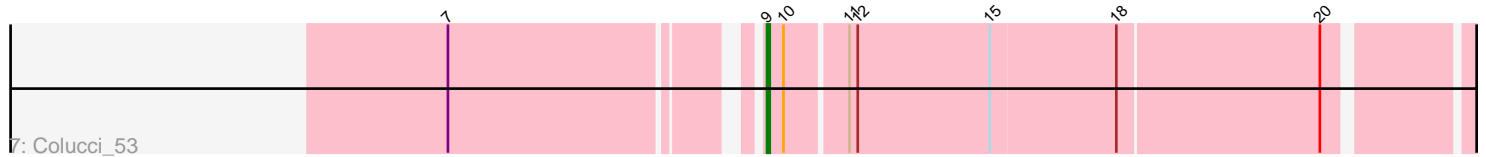
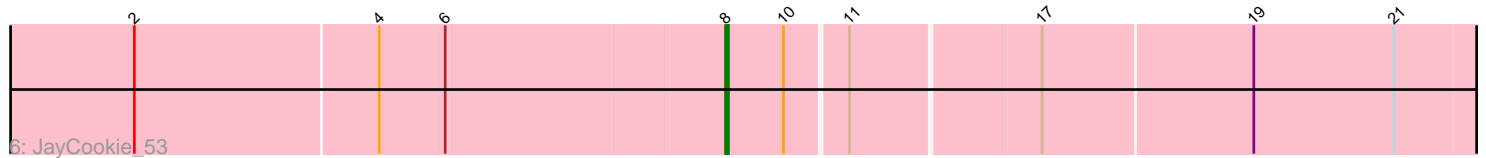
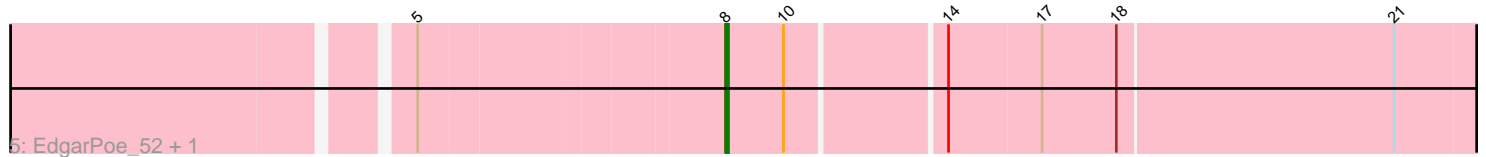
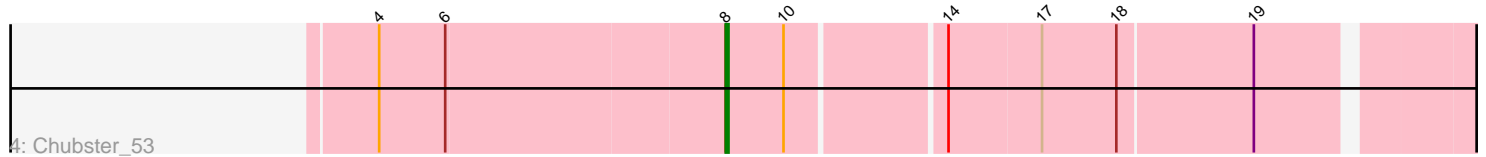
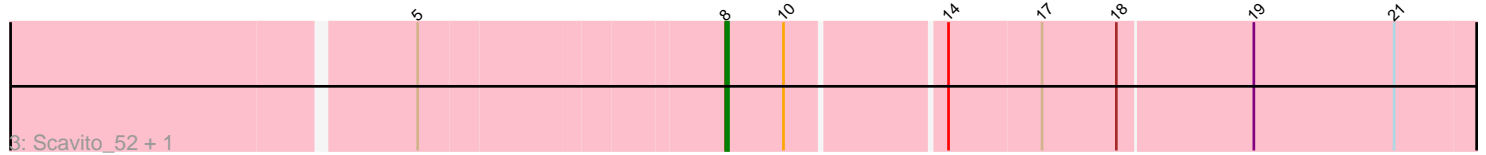
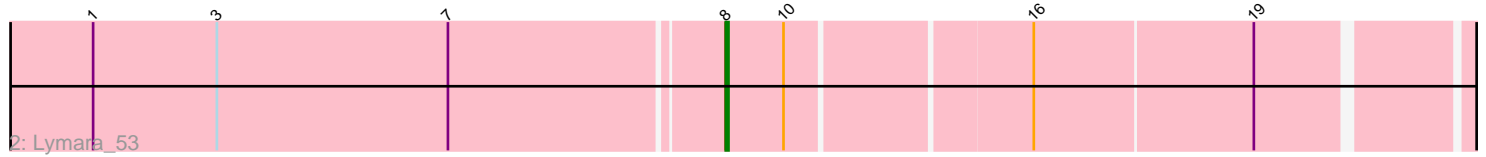
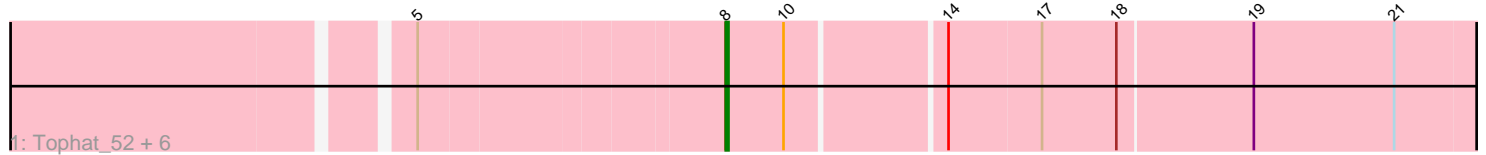


# Pham 86802



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 86802 Report

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

Pham number 86802 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Tophat\_52, HumptyDumpty\_52, Kabreeze\_52, Chipper1996\_520, Chocolat\_52, Mordred\_52, RosiePosie\_52
- Track 2 : Lymara\_53
- Track 3 : Scavito\_52, JaNo\_52
- Track 4 : Chubster\_53
- Track 5 : EdgarPoe\_52, Conboy\_52
- Track 6 : JayCookie\_53
- Track 7 : Colucci\_53
- Track 8 : Linus\_52
- Track 9 : KBurrousTX\_53
- Track 10 : MoyaNatalis\_52

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

Genes that call this "Most Annotated" start:

- Chipper1996\_520, Chocolat\_52, Chubster\_53, Conboy\_52, EdgarPoe\_52, HumptyDumpty\_52, JaNo\_52, JayCookie\_53, Kabreeze\_52, Linus\_52, Lymara\_53, Mordred\_52, MoyaNatalis\_52, RosiePosie\_52, Scavito\_52, Tophat\_52,

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

- 

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

- Colucci\_53, KBurrousTX\_53,

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

Start 8:

- Found in 16 of 18 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 14 of 16
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Chipper1996\_520 (AR), Chocolat\_52 (AR), Chubster\_53 (AR), Conboy\_52 (AR), EdgarPoe\_52 (AR), HumptyDumpty\_52 (AR), JaNo\_52 (AR), JayCookie\_53 (AR), Kabreeze\_52 (AR), Linus\_52 (AR), Lymara\_53 (AR), Mordred\_52 (AR), MoyaNatalis\_52 (AR), RosiePosie\_52 (AR), Scavito\_52 (AR), Tophat\_52 (AR),

Start 9:

- 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: Colucci\_53 (AR),

Start 10:

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

### **Summary by clusters:**

There is one cluster represented in this pham: AR

Info for manual annotations of cluster AR:

- Start number 8 was manually annotated 14 times for cluster AR.
- Start number 9 was manually annotated 1 time for cluster AR.
- Start number 10 was manually annotated 1 time for cluster AR.

### **Gene Information:**

Gene: Chipper1996\_520 Start: 40045, Stop: 40404, Start Num: 8

Candidate Starts for Chipper1996\_520:

(5, 39940), (Start: 8 @40045 has 14 MA's), (Start: 10 @40066 has 1 MA's), (14, 40120), (17, 40153), (18, 40180), (19, 40228), (21, 40279),

Gene: Chocolat\_52 Start: 40025, Stop: 40384, Start Num: 8

Candidate Starts for Chocolat\_52:

(5, 39920), (Start: 8 @40025 has 14 MA's), (Start: 10 @40046 has 1 MA's), (14, 40100), (17, 40133), (18, 40160), (19, 40208), (21, 40259),

Gene: Chubster\_53 Start: 40189, Stop: 40536, Start Num: 8

Candidate Starts for Chubster\_53:

(4, 40066), (6, 40090), (Start: 8 @40189 has 14 MA's), (Start: 10 @40210 has 1 MA's), (14, 40264), (17, 40297), (18, 40324), (19, 40372),

Gene: Colucci\_53 Start: 40130, Stop: 40462, Start Num: 9

Candidate Starts for Colucci\_53:

(7, 40031), (Start: 9 @40130 has 1 MA's), (Start: 10 @40136 has 1 MA's), (11, 40157), (12, 40160), (15, 40208), (18, 40253), (20, 40325),

Gene: Conboy\_52 Start: 40173, Stop: 40532, Start Num: 8

Candidate Starts for Conboy\_52:

(5, 40068), (Start: 8 @40173 has 14 MA's), (Start: 10 @40194 has 1 MA's), (14, 40248), (17, 40281), (18, 40308), (21, 40407),

Gene: EdgarPoe\_52 Start: 40173, Stop: 40532, Start Num: 8

Candidate Starts for EdgarPoe\_52:

(5, 40068), (Start: 8 @40173 has 14 MA's), (Start: 10 @40194 has 1 MA's), (14, 40248), (17, 40281), (18, 40308), (21, 40407),

Gene: HumptyDumpty\_52 Start: 40043, Stop: 40402, Start Num: 8

Candidate Starts for HumptyDumpty\_52:

(5, 39938), (Start: 8 @40043 has 14 MA's), (Start: 10 @40064 has 1 MA's), (14, 40118), (17, 40151), (18, 40178), (19, 40226), (21, 40277),

Gene: JaNo\_52 Start: 40049, Stop: 40408, Start Num: 8

Candidate Starts for JaNo\_52:

(5, 39944), (Start: 8 @40049 has 14 MA's), (Start: 10 @40070 has 1 MA's), (14, 40124), (17, 40157), (18, 40184), (19, 40232), (21, 40283),

Gene: JayCookie\_53 Start: 40436, Stop: 40795, Start Num: 8

Candidate Starts for JayCookie\_53:

(2, 40226), (4, 40313), (6, 40337), (Start: 8 @40436 has 14 MA's), (Start: 10 @40457 has 1 MA's), (11, 40478), (17, 40544), (19, 40619), (21, 40670),

Gene: KBurrousTX\_53 Start: 41481, Stop: 41816, Start Num: 10

Candidate Starts for KBurrousTX\_53:

(Start: 10 @41481 has 1 MA's), (13, 41523),

Gene: Kabreeze\_52 Start: 40043, Stop: 40402, Start Num: 8

Candidate Starts for Kabreeze\_52:

(5, 39938), (Start: 8 @40043 has 14 MA's), (Start: 10 @40064 has 1 MA's), (14, 40118), (17, 40151), (18, 40178), (19, 40226), (21, 40277),

Gene: Linus\_52 Start: 40166, Stop: 40525, Start Num: 8

Candidate Starts for Linus\_52:

(5, 40061), (Start: 8 @40166 has 14 MA's), (Start: 10 @40187 has 1 MA's), (14, 40241), (17, 40274), (19, 40349), (21, 40400),

Gene: Lymara\_53 Start: 40394, Stop: 40741, Start Num: 8

Candidate Starts for Lymara\_53:

(1, 40169), (3, 40214), (7, 40298), (Start: 8 @40394 has 14 MA's), (Start: 10 @40415 has 1 MA's), (16, 40499), (19, 40577),

Gene: Mordred\_52 Start: 40043, Stop: 40402, Start Num: 8

Candidate Starts for Mordred\_52:

(5, 39938), (Start: 8 @40043 has 14 MA's), (Start: 10 @40064 has 1 MA's), (14, 40118), (17, 40151), (18, 40178), (19, 40226), (21, 40277),

Gene: MoyaNatalis\_52 Start: 40024, Stop: 40371, Start Num: 8

Candidate Starts for MoyaNatalis\_52:

(5, 39919), (Start: 8 @40024 has 14 MA's), (Start: 10 @40045 has 1 MA's), (14, 40099), (17, 40132), (18, 40159),

Gene: RosiePosie\_52 Start: 40046, Stop: 40405, Start Num: 8

Candidate Starts for RosiePosie\_52:

(5, 39941), (Start: 8 @40046 has 14 MA's), (Start: 10 @40067 has 1 MA's), (14, 40121), (17, 40154), (18, 40181), (19, 40229), (21, 40280),

Gene: Scavito\_52 Start: 40050, Stop: 40409, Start Num: 8

Candidate Starts for Scavito\_52:

(5, 39945), (Start: 8 @40050 has 14 MA's), (Start: 10 @40071 has 1 MA's), (14, 40125), (17, 40158), (18, 40185), (19, 40233), (21, 40284),

Gene: Tophat\_52 Start: 40045, Stop: 40404, Start Num: 8

Candidate Starts for Tophat\_52:

(5, 39940), (Start: 8 @40045 has 14 MA's), (Start: 10 @40066 has 1 MA's), (14, 40120), (17, 40153), (18, 40180), (19, 40228), (21, 40279),