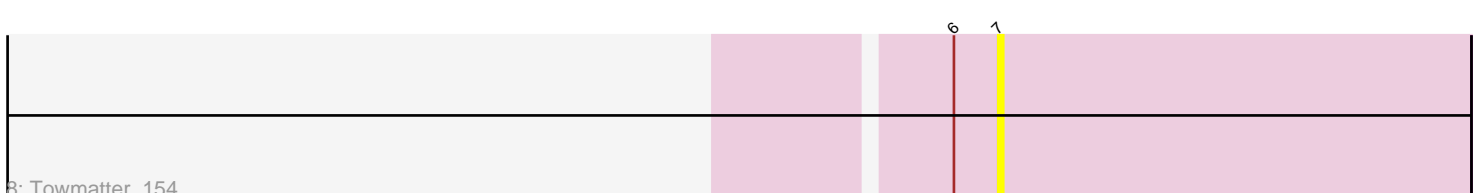
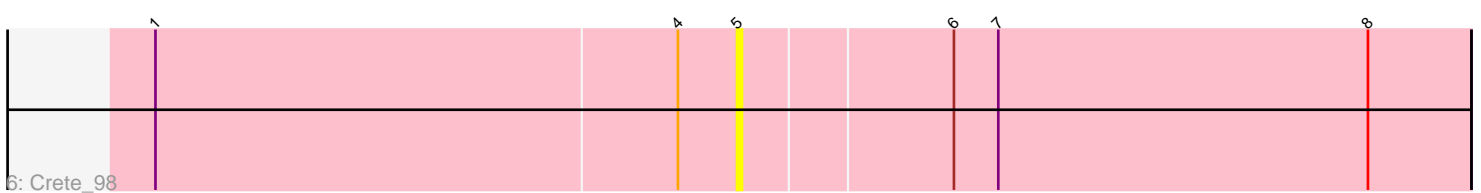
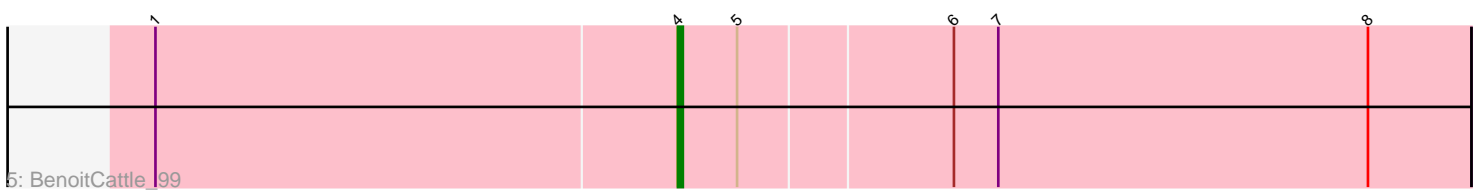
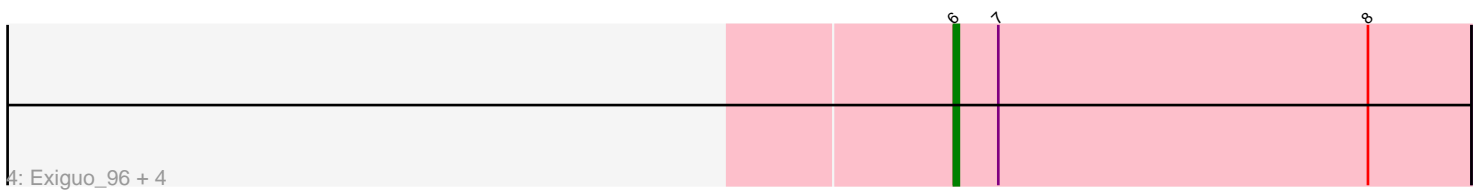
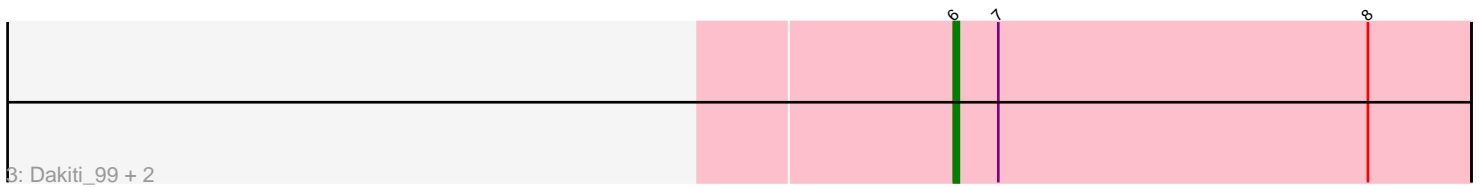
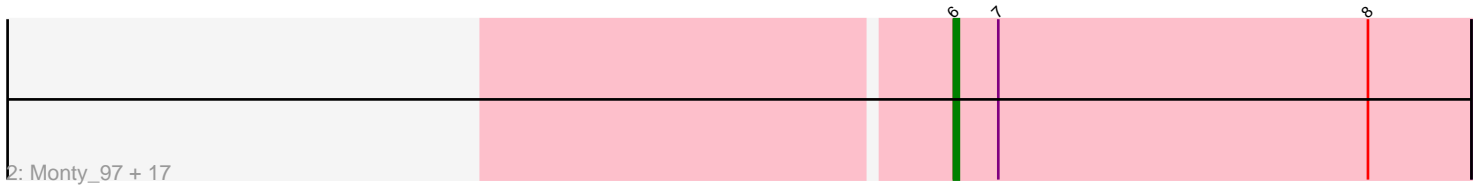
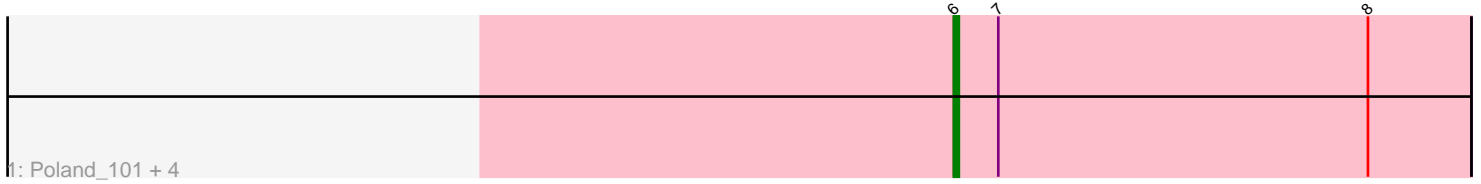


Pham 223304



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 223304 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223304 has 35 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Poland\_101, BirksAndSocks\_100, Boneham\_99, Msay19\_101, Butterball\_98
- Track 2 : Monty\_97, Barbochs\_96, Flakey\_98, Adgers\_99, Breezic\_98, FelixAlejandro\_100, BigShaq\_98, Gorko\_95, John316\_100, CinnamonToast\_101, RemRem\_100, Ekhein\_99, Linetti\_97, Jellybones\_98, Worcestershire\_96, Sombrero\_98, Squibbles\_97, Beaver\_100
- Track 3 : Dakiti\_99, Chelms\_97, PierreThree\_97
- Track 4 : Exiguo\_96, Sam12\_96, CathyBurgh\_96, GourdThymes\_97, Lizzo\_97
- Track 5 : BenoitCattle\_99
- Track 6 : Crete\_98
- Track 7 : Daredevil\_153
- Track 8 : Towmatter\_154

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

The start number called the most often in the published annotations is 6, it was called in 27 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers\_99, Barbochs\_96, Beaver\_100, BigShaq\_98, BirksAndSocks\_100, Boneham\_99, Breezic\_98, Butterball\_98, CathyBurgh\_96, Chelms\_97, CinnamonToast\_101, Dakiti\_99, Daredevil\_153, Ekhein\_99, Exiguo\_96, FelixAlejandro\_100, Flakey\_98, Gorko\_95, GourdThymes\_97, Jellybones\_98, John316\_100, Linetti\_97, Lizzo\_97, Monty\_97, Msay19\_101, PierreThree\_97, Poland\_101, RemRem\_100, Sam12\_96, Sombrero\_98, Squibbles\_97, Worcestershire\_96,

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

- BenoitCattle\_99, Crete\_98, Towmatter\_154,

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

- 

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

Start 4:

- Found in 2 of 35 ( 5.7% ) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BenoitCattle\_99 (CS2),

Start 5:

- Found in 2 of 35 ( 5.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Crete\_98 (CS2),

Start 6:

- Found in 35 of 35 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 27 of 28
- Called 91.4% of time when present
- Phage (with cluster) where this start called: Adgers\_99 (CS2), Barbochs\_96 (CS2), Beaver\_100 (CS2), BigShaq\_98 (CS2), BirksAndSocks\_100 (CS2), Boneham\_99 (CS2), Breezic\_98 (CS2), Butterball\_98 (CS2), CathyBurgh\_96 (CS2), Chelms\_97 (CS2), CinnamonToast\_101 (CS2), Dakiti\_99 (CS2), Daredevil\_153 (DL), Ekhein\_99 (CS2), Exiguo\_96 (CS2), FelixAlejandro\_100 (CS2), Flakey\_98 (CS2), Gorko\_95 (CS2), GourdThymes\_97 (CS2), Jellybones\_98 (CS2), John316\_100 (CS2), Linetti\_97 (CS2), Lizzo\_97 (CS2), Monty\_97 (CS2), Msay19\_101 (CS2), PierreThree\_97 (CS2), Poland\_101 (CS2), RemRem\_100 (CS2), Sam12\_96 (CS2), Sombrero\_98 (CS2), Squibbles\_97 (CS2), Worcestershire\_96 (CS2),

Start 7:

- Found in 35 of 35 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Towmatter\_154 (DL),

**Summary by clusters:**

There are 2 clusters represented in this pham: DL, CS2,

Info for manual annotations of cluster CS2:

- Start number 4 was manually annotated 1 time for cluster CS2.
- Start number 6 was manually annotated 26 times for cluster CS2.

Info for manual annotations of cluster DL:

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

**Gene Information:**

Gene: Adgers\_99 Start: 70858, Stop: 70754, Start Num: 6

Candidate Starts for Adgers\_99:

(Start: 6 @70858 has 27 MA's), (7, 70849), (8, 70774),

Gene: Barbochs\_96 Start: 70046, Stop: 69942, Start Num: 6

Candidate Starts for Barbochs\_96:  
(Start: 6 @70046 has 27 MA's), (7, 70037), (8, 69962),

Gene: Beaver\_100 Start: 72199, Stop: 72095, Start Num: 6  
Candidate Starts for Beaver\_100:  
(Start: 6 @72199 has 27 MA's), (7, 72190), (8, 72115),

Gene: BenoitCattle\_99 Start: 71650, Stop: 71492, Start Num: 4  
Candidate Starts for BenoitCattle\_99:  
(1, 71755), (Start: 4 @71650 has 1 MA's), (5, 71638), (Start: 6 @71596 has 27 MA's), (7, 71587), (8, 71512),

Gene: BigShaq\_98 Start: 71195, Stop: 71091, Start Num: 6  
Candidate Starts for BigShaq\_98:  
(Start: 6 @71195 has 27 MA's), (7, 71186), (8, 71111),

Gene: BirksAndSocks\_100 Start: 71813, Stop: 71709, Start Num: 6  
Candidate Starts for BirksAndSocks\_100:  
(Start: 6 @71813 has 27 MA's), (7, 71804), (8, 71729),

Gene: Boneham\_99 Start: 71738, Stop: 71634, Start Num: 6  
Candidate Starts for Boneham\_99:  
(Start: 6 @71738 has 27 MA's), (7, 71729), (8, 71654),

Gene: Breezic\_98 Start: 70747, Stop: 70643, Start Num: 6  
Candidate Starts for Breezic\_98:  
(Start: 6 @70747 has 27 MA's), (7, 70738), (8, 70663),

Gene: Butterball\_98 Start: 71743, Stop: 71639, Start Num: 6  
Candidate Starts for Butterball\_98:  
(Start: 6 @71743 has 27 MA's), (7, 71734), (8, 71659),

Gene: CathyBurgh\_96 Start: 70776, Stop: 70672, Start Num: 6  
Candidate Starts for CathyBurgh\_96:  
(Start: 6 @70776 has 27 MA's), (7, 70767), (8, 70692),

Gene: Chelms\_97 Start: 71333, Stop: 71229, Start Num: 6  
Candidate Starts for Chelms\_97:  
(Start: 6 @71333 has 27 MA's), (7, 71324), (8, 71249),

Gene: CinnamonToast\_101 Start: 72303, Stop: 72199, Start Num: 6  
Candidate Starts for CinnamonToast\_101:  
(Start: 6 @72303 has 27 MA's), (7, 72294), (8, 72219),

Gene: Crete\_98 Start: 71477, Stop: 71331, Start Num: 5  
Candidate Starts for Crete\_98:  
(1, 71594), (Start: 4 @71489 has 1 MA's), (5, 71477), (Start: 6 @71435 has 27 MA's), (7, 71426), (8, 71351),

Gene: Dakiti\_99 Start: 72276, Stop: 72172, Start Num: 6  
Candidate Starts for Dakiti\_99:  
(Start: 6 @72276 has 27 MA's), (7, 72267), (8, 72192),

Gene: Daredevil\_153 Start: 83969, Stop: 83865, Start Num: 6  
Candidate Starts for Daredevil\_153:  
(2, 84113), (3, 84047), (Start: 6 @83969 has 27 MA's), (7, 83960),

Gene: Ekhein\_99 Start: 70794, Stop: 70690, Start Num: 6  
Candidate Starts for Ekhein\_99:  
(Start: 6 @70794 has 27 MA's), (7, 70785), (8, 70710),

Gene: Exiguo\_96 Start: 70207, Stop: 70103, Start Num: 6  
Candidate Starts for Exiguo\_96:  
(Start: 6 @70207 has 27 MA's), (7, 70198), (8, 70123),

Gene: FelixAlejandro\_100 Start: 72256, Stop: 72152, Start Num: 6  
Candidate Starts for FelixAlejandro\_100:  
(Start: 6 @72256 has 27 MA's), (7, 72247), (8, 72172),

Gene: Flakey\_98 Start: 71688, Stop: 71584, Start Num: 6  
Candidate Starts for Flakey\_98:  
(Start: 6 @71688 has 27 MA's), (7, 71679), (8, 71604),

Gene: Gorko\_95 Start: 69960, Stop: 69856, Start Num: 6  
Candidate Starts for Gorko\_95:  
(Start: 6 @69960 has 27 MA's), (7, 69951), (8, 69876),

Gene: GourdThymes\_97 Start: 70803, Stop: 70699, Start Num: 6  
Candidate Starts for GourdThymes\_97:  
(Start: 6 @70803 has 27 MA's), (7, 70794), (8, 70719),

Gene: Jellybones\_98 Start: 71944, Stop: 71840, Start Num: 6  
Candidate Starts for Jellybones\_98:  
(Start: 6 @71944 has 27 MA's), (7, 71935), (8, 71860),

Gene: John316\_100 Start: 71918, Stop: 71814, Start Num: 6  
Candidate Starts for John316\_100:  
(Start: 6 @71918 has 27 MA's), (7, 71909), (8, 71834),

Gene: Linetti\_97 Start: 72359, Stop: 72255, Start Num: 6  
Candidate Starts for Linetti\_97:  
(Start: 6 @72359 has 27 MA's), (7, 72350), (8, 72275),

Gene: Lizzo\_97 Start: 70776, Stop: 70672, Start Num: 6  
Candidate Starts for Lizzo\_97:  
(Start: 6 @70776 has 27 MA's), (7, 70767), (8, 70692),

Gene: Monty\_97 Start: 70479, Stop: 70375, Start Num: 6  
Candidate Starts for Monty\_97:  
(Start: 6 @70479 has 27 MA's), (7, 70470), (8, 70395),

Gene: Msay19\_101 Start: 72539, Stop: 72435, Start Num: 6  
Candidate Starts for Msay19\_101:  
(Start: 6 @72539 has 27 MA's), (7, 72530), (8, 72455),

Gene: PierreThree\_97 Start: 71907, Stop: 71803, Start Num: 6

Candidate Starts for PierreThree\_97:  
(Start: 6 @71907 has 27 MA's), (7, 71898), (8, 71823),

Gene: Poland\_101 Start: 72521, Stop: 72417, Start Num: 6  
Candidate Starts for Poland\_101:  
(Start: 6 @72521 has 27 MA's), (7, 72512), (8, 72437),

Gene: RemRem\_100 Start: 70768, Stop: 70664, Start Num: 6  
Candidate Starts for RemRem\_100:  
(Start: 6 @70768 has 27 MA's), (7, 70759), (8, 70684),

Gene: Sam12\_96 Start: 70204, Stop: 70100, Start Num: 6  
Candidate Starts for Sam12\_96:  
(Start: 6 @70204 has 27 MA's), (7, 70195), (8, 70120),

Gene: Sombrero\_98 Start: 70823, Stop: 70719, Start Num: 6  
Candidate Starts for Sombrero\_98:  
(Start: 6 @70823 has 27 MA's), (7, 70814), (8, 70739),

Gene: Squibbles\_97 Start: 71294, Stop: 71190, Start Num: 6  
Candidate Starts for Squibbles\_97:  
(Start: 6 @71294 has 27 MA's), (7, 71285), (8, 71210),

Gene: Towmatter\_154 Start: 84142, Stop: 84047, Start Num: 7  
Candidate Starts for Towmatter\_154:  
(Start: 6 @84151 has 27 MA's), (7, 84142),

Gene: Worcestershire\_96 Start: 70202, Stop: 70098, Start Num: 6  
Candidate Starts for Worcestershire\_96:  
(Start: 6 @70202 has 27 MA's), (7, 70193), (8, 70118),