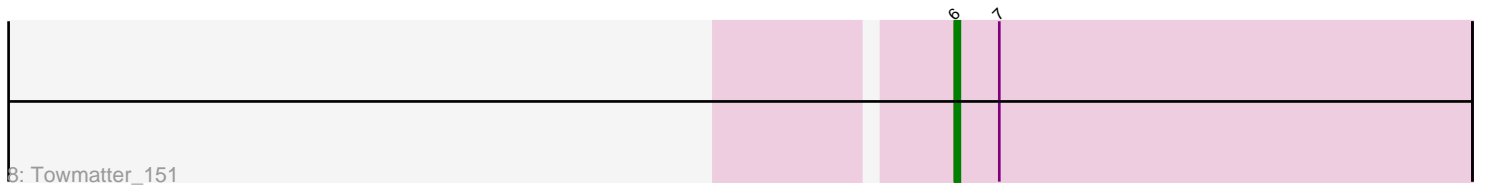
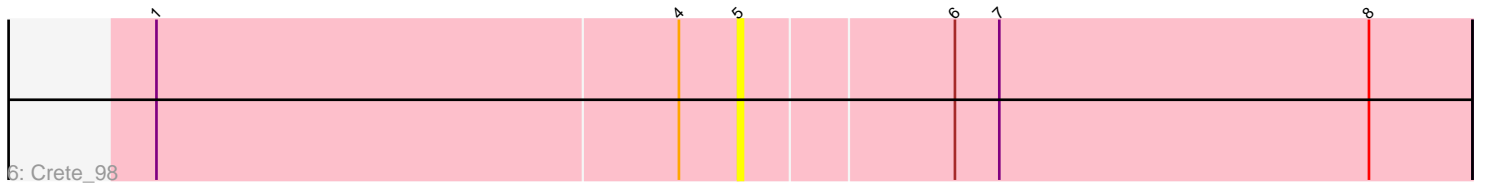
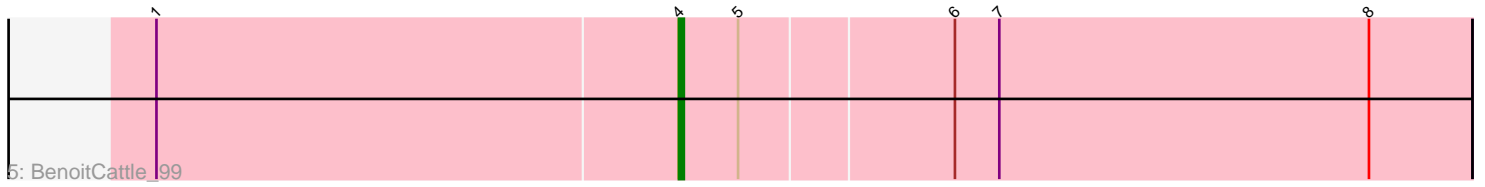
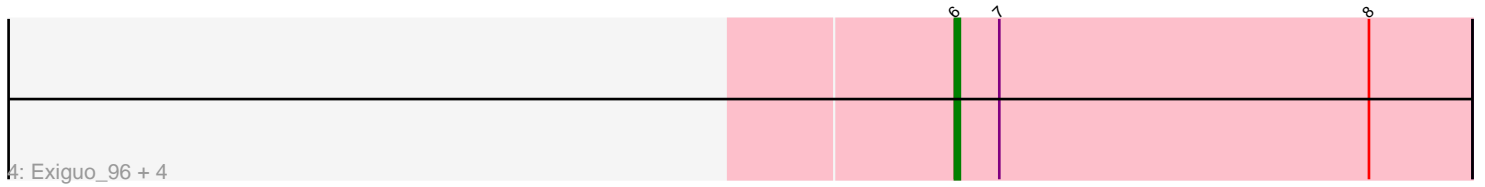
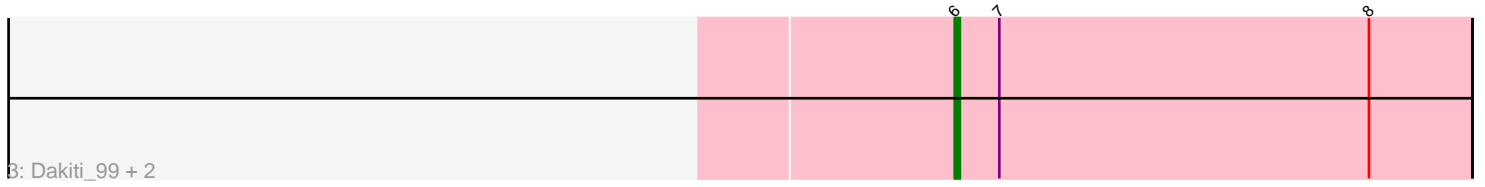
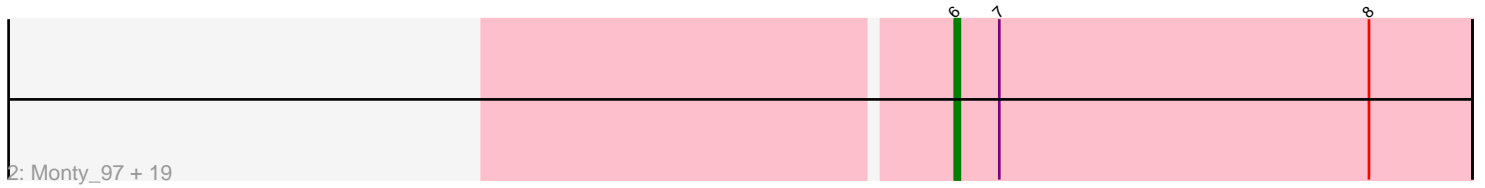
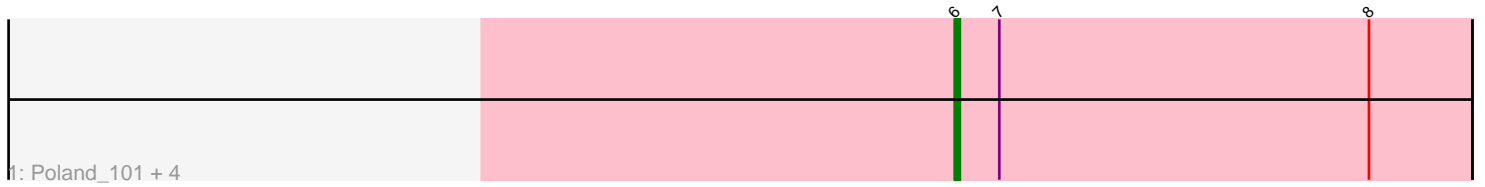


Pham 300218



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 300218 Report

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

Pham number 300218 has 37 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Poland_101, BirksAndSocks_100, Boneham_99, Msay19_101, Butterball_98
- Track 2 : Monty_97, Flakey_98, Adgers_99, Breezic_98, FelixAlejandro_100, BigShaq_98, Gorko_95, John316_100, CinnamonToast_101, RemRem_100, Ekhein_99, Barbochs_94, Linetti_97, Jellybones_98, Worcestershire_96, Sombrero_98, Kelzog_99, Squibbles_97, Beaver_100, BillyBobJr_101
- Track 3 : Dakiti_99, Chelms_97, PierreThree_97
- Track 4 : Exiguo_96, Sam12_96, CathyBurgh_97, GourdThymes_97, Lizzo_97
- Track 5 : BenoitCattle_99
- Track 6 : Crete_98
- Track 7 : Daredevil_153
- Track 8 : Towmatter_151

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 31 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adgers_99, Barbochs_94, Beaver_100, BigShaq_98, BillyBobJr_101, BirksAndSocks_100, Boneham_99, Breezic_98, Butterball_98, CathyBurgh_97, Chelms_97, CinnamonToast_101, Dakiti_99, Daredevil_153, Ekhein_99, Exiguo_96, FelixAlejandro_100, Flakey_98, Gorko_95, GourdThymes_97, Jellybones_98, John316_100, Kelzog_99, Linetti_97, Lizzo_97, Monty_97, Msay19_101, PierreThree_97, Poland_101, RemRem_100, Sam12_96, Sombrero_98, Squibbles_97, Towmatter_151, Worcestershire_96,

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

- BenoitCattle_99, Crete_98,

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

-

Summary by start number:

Start 4:

- Found in 2 of 37 (5.4%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BenoitCattle_99 (CS2),

Start 5:

- Found in 2 of 37 (5.4%) 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 37 of 37 (100.0%) of genes in pham
- Manual Annotations of this start: 31 of 32
- Called 94.6% of time when present
- Phage (with cluster) where this start called: Adgers_99 (CS2), Barbochs_94 (CS2), Beaver_100 (CS2), BigShaq_98 (CS2), BillyBobJr_101 (CS2), BirksAndSocks_100 (CS2), Boneham_99 (CS2), Breezic_98 (CS2), Butterball_98 (CS2), CathyBurgh_97 (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), Kelzog_99 (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), Towmatter_151 (DL), Worcestershire_96 (CS2),

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 29 times for cluster CS2.

Info for manual annotations of cluster DL:

- Start number 6 was manually annotated 2 times for cluster DL.

Gene Information:

Gene: Adgers_99 Start: 70858, Stop: 70754, Start Num: 6

Candidate Starts for Adgers_99:

(Start: 6 @70858 has 31 MA's), (7, 70849), (8, 70774),

Gene: Barbochs_94 Start: 70046, Stop: 69942, Start Num: 6

Candidate Starts for Barbochs_94:

(Start: 6 @70046 has 31 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 31 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 31 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 31 MA's), (7, 71186), (8, 71111),

Gene: BillyBobJr_101 Start: 72303, Stop: 72199, Start Num: 6

Candidate Starts for BillyBobJr_101:

(Start: 6 @72303 has 31 MA's), (7, 72294), (8, 72219),

Gene: BirksAndSocks_100 Start: 71813, Stop: 71709, Start Num: 6

Candidate Starts for BirksAndSocks_100:

(Start: 6 @71813 has 31 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 31 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 31 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 31 MA's), (7, 71734), (8, 71659),

Gene: CathyBurgh_97 Start: 70776, Stop: 70672, Start Num: 6

Candidate Starts for CathyBurgh_97:

(Start: 6 @70776 has 31 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 31 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 31 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 31 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 31 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 31 MA's), (7, 83960),

Gene: Ekhein_99 Start: 70794, Stop: 70690, Start Num: 6
Candidate Starts for Ekhein_99:
(Start: 6 @70794 has 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 MA's), (7, 71909), (8, 71834),

Gene: Kelzog_99 Start: 71185, Stop: 71081, Start Num: 6
Candidate Starts for Kelzog_99:
(Start: 6 @71185 has 31 MA's), (7, 71176), (8, 71101),

Gene: Linetti_97 Start: 72359, Stop: 72255, Start Num: 6
Candidate Starts for Linetti_97:
(Start: 6 @72359 has 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 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 31 MA's), (7, 71285), (8, 71210),

Gene: Towmatter_151 Start: 84151, Stop: 84047, Start Num: 6

Candidate Starts for Towmatter_151:

(Start: 6 @84151 has 31 MA's), (7, 84142),

Gene: Worcestershire_96 Start: 70202, Stop: 70098, Start Num: 6

Candidate Starts for Worcestershire_96:

(Start: 6 @70202 has 31 MA's), (7, 70193), (8, 70118),