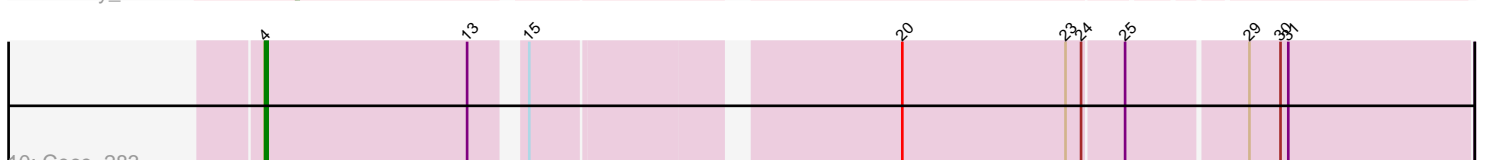
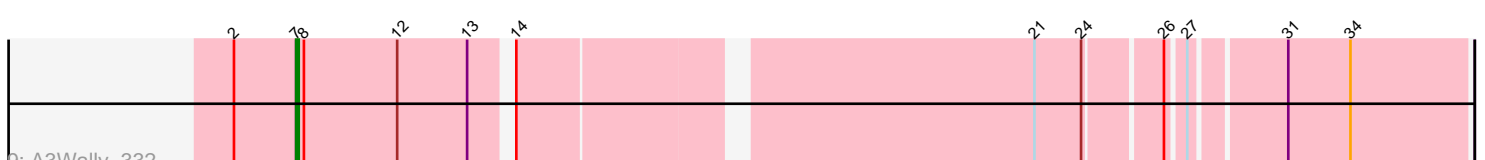
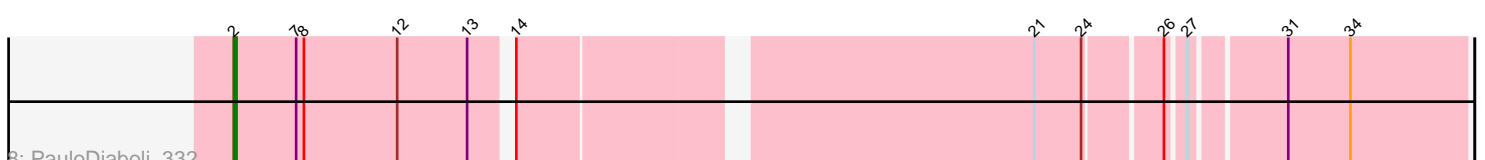
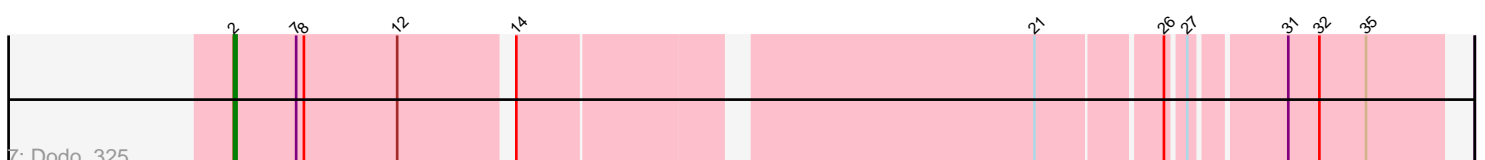
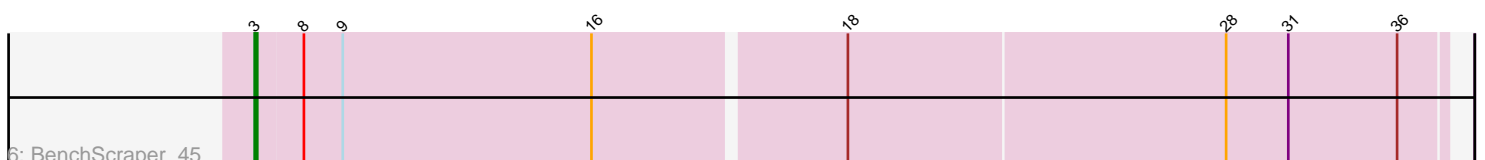
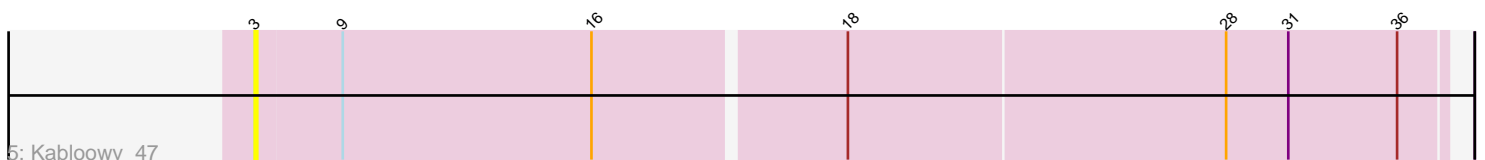
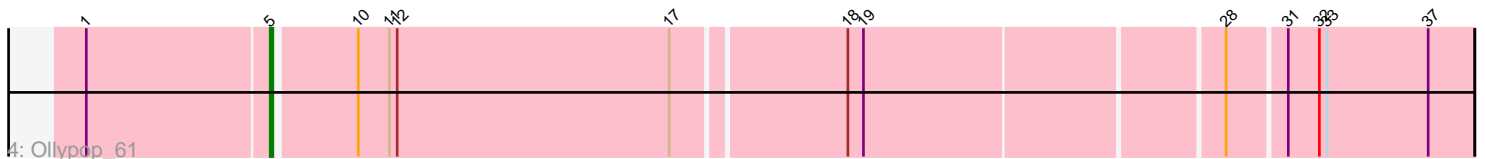
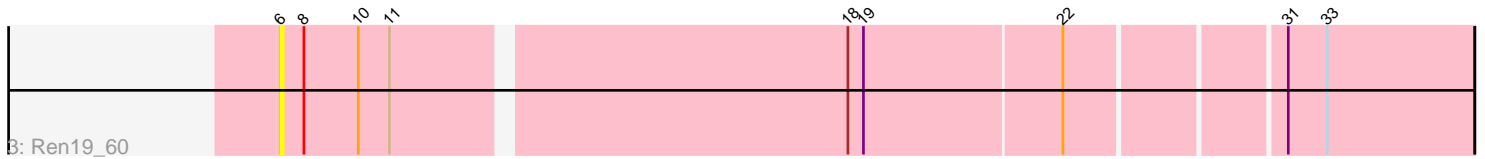
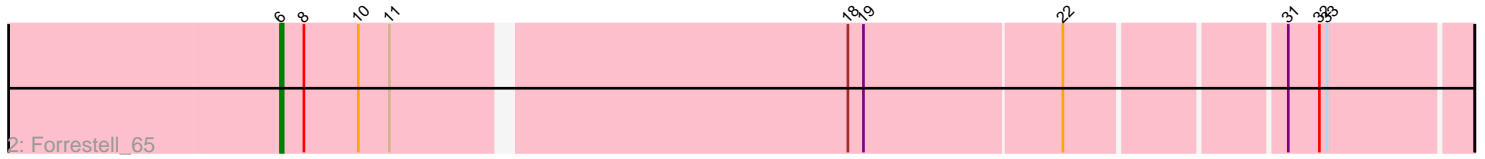
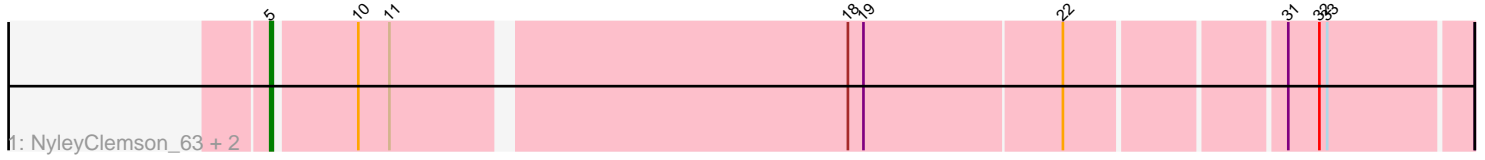


Pham 303808



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 303808 Report

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

Pham number 303808 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : NyleyClemson_63, MellowYellow_65, RazzB_64
- Track 2 : Forrestell_65
- Track 3 : Ren19_60
- Track 4 : Ollypop_61
- Track 5 : Kabloowy_47
- Track 6 : BenchScraper_45
- Track 7 : Dodo_325
- Track 8 : PauloDiaboli_332
- Track 9 : A3Wally_332
- Track 10 : Cece_283

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

The start number called the most often in the published annotations is 5, it was called in 4 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- MellowYellow_65, NyleyClemson_63, Ollypop_61, RazzB_64,

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

-

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

- A3Wally_332, BenchScraper_45, Cece_283, Dodo_325, Forrestell_65, Kabloowy_47, PauloDiaboli_332, Ren19_60,

Summary by start number:

Start 2:

- Found in 3 of 12 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Dodo_325 (GD1), PauloDiaboli_332 (GD1),

Start 3:

- Found in 2 of 12 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BenchScraper_45 (AY), Kabloowy_47 (AY),

Start 4:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_283 (GD3),

Start 5:

- Found in 4 of 12 (33.3%) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MellowYellow_65 (AP2), NyleyClemson_63 (AP2), Ollypop_61 (AP2), RazzB_64 (AP2),

Start 6:

- Found in 2 of 12 (16.7%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Forrestell_65 (AP2), Ren19_60 (AP2),

Start 7:

- Found in 3 of 12 (25.0%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 33.3% of time when present
- Phage (with cluster) where this start called: A3Wally_332 (GD1),

Summary by clusters:

There are 4 clusters represented in this pham: AY, AP2, GD3, GD1,

Info for manual annotations of cluster AP2:

- Start number 5 was manually annotated 4 times for cluster AP2.
- Start number 6 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster GD1:

- Start number 2 was manually annotated 2 times for cluster GD1.
- Start number 7 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster GD3:

- Start number 4 was manually annotated 1 time for cluster GD3.

Gene Information:

Gene: A3Wally_332 Start: 172961, Stop: 173377, Start Num: 7

Candidate Starts for A3Wally_332:

(Start: 2 @172937 has 2 MA's), (Start: 7 @172961 has 1 MA's), (8, 172964), (12, 173000), (13, 173027), (14, 173039), (21, 173225), (24, 173243), (26, 173270), (27, 173276), (31, 173309), (34, 173333),

Gene: BenchScraper_45 Start: 28867, Stop: 29316, Start Num: 3

Candidate Starts for BenchScraper_45:

(Start: 3 @28867 has 1 MA's), (8, 28885), (9, 28900), (16, 28996), (18, 29089), (28, 29233), (31, 29257), (36, 29299),

Gene: Cece_283 Start: 159777, Stop: 160211, Start Num: 4

Candidate Starts for Cece_283:

(Start: 4 @159777 has 1 MA's), (13, 159855), (15, 159870), (20, 159999), (23, 160062), (24, 160068), (25, 160083), (29, 160128), (30, 160140), (31, 160143),

Gene: Dodo_325 Start: 172003, Stop: 172434, Start Num: 2

Candidate Starts for Dodo_325:

(Start: 2 @172003 has 2 MA's), (Start: 7 @172027 has 1 MA's), (8, 172030), (12, 172066), (14, 172105), (21, 172291), (26, 172336), (27, 172342), (31, 172375), (32, 172387), (35, 172405),

Gene: Forrestell_65 Start: 41629, Stop: 41192, Start Num: 6

Candidate Starts for Forrestell_65:

(Start: 6 @41629 has 1 MA's), (8, 41620), (10, 41599), (11, 41587), (18, 41419), (19, 41413), (22, 41338), (31, 41260), (32, 41248), (33, 41245),

Gene: Kabloowy_47 Start: 30339, Stop: 30788, Start Num: 3

Candidate Starts for Kabloowy_47:

(Start: 3 @30339 has 1 MA's), (9, 30372), (16, 30468), (18, 30561), (28, 30705), (31, 30729), (36, 30771),

Gene: MellowYellow_65 Start: 42090, Stop: 41653, Start Num: 5

Candidate Starts for MellowYellow_65:

(Start: 5 @42090 has 4 MA's), (10, 42060), (11, 42048), (18, 41880), (19, 41874), (22, 41799), (31, 41721), (32, 41709), (33, 41706),

Gene: NyleyClemson_63 Start: 41705, Stop: 41268, Start Num: 5

Candidate Starts for NyleyClemson_63:

(Start: 5 @41705 has 4 MA's), (10, 41675), (11, 41663), (18, 41495), (19, 41489), (22, 41414), (31, 41336), (32, 41324), (33, 41321),

Gene: Ollypop_61 Start: 42649, Stop: 42206, Start Num: 5

Candidate Starts for Ollypop_61:

(1, 42718), (Start: 5 @42649 has 4 MA's), (10, 42619), (11, 42607), (12, 42604), (17, 42499), (18, 42436), (19, 42430), (28, 42298), (31, 42277), (32, 42265), (33, 42262), (37, 42223),

Gene: PauloDiaboli_332 Start: 170160, Stop: 170600, Start Num: 2

Candidate Starts for PauloDiaboli_332:

(Start: 2 @170160 has 2 MA's), (Start: 7 @170184 has 1 MA's), (8, 170187), (12, 170223), (13, 170250), (14, 170262), (21, 170448), (24, 170466), (26, 170493), (27, 170499), (31, 170532), (34, 170556),

Gene: RazzB_64 Start: 41836, Stop: 41399, Start Num: 5

Candidate Starts for RazzB_64:

(Start: 5 @41836 has 4 MA's), (10, 41806), (11, 41794), (18, 41626), (19, 41620), (22, 41545), (31, 41467), (32, 41455), (33, 41452),

Gene: Ren19_60 Start: 41819, Stop: 41379, Start Num: 6

Candidate Starts for Ren19_60:

(Start: 6 @41819 has 1 MA's), (8, 41810), (10, 41789), (11, 41777), (18, 41609), (19, 41603), (22, 41528), (31, 41450), (33, 41435),