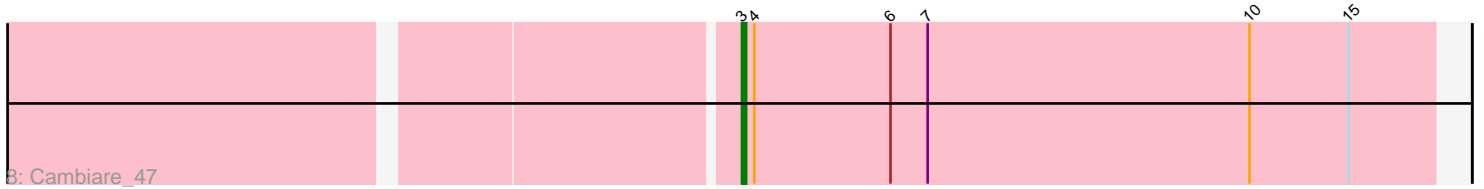
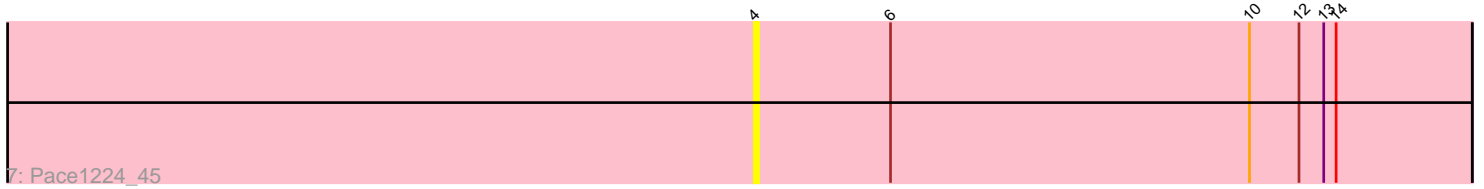
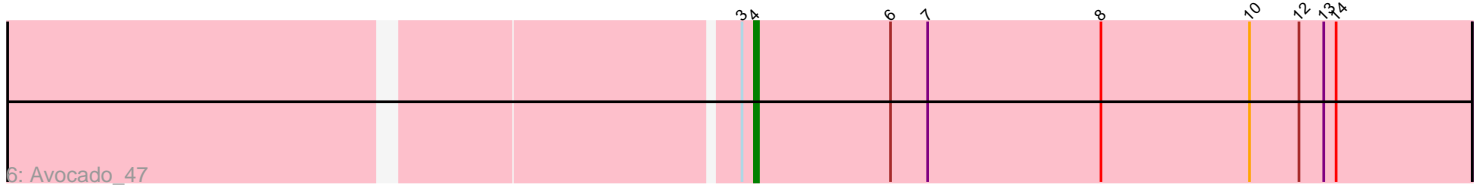
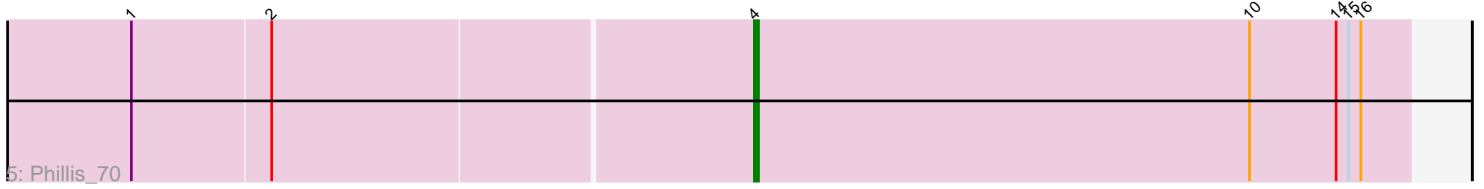
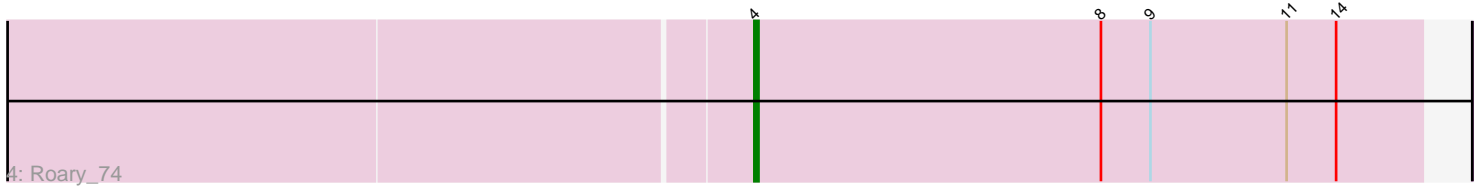
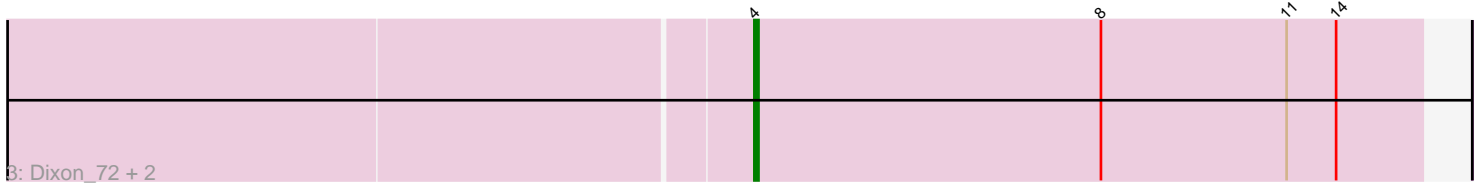
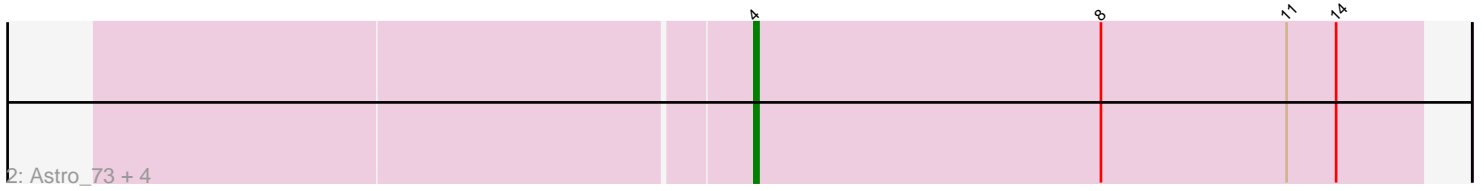
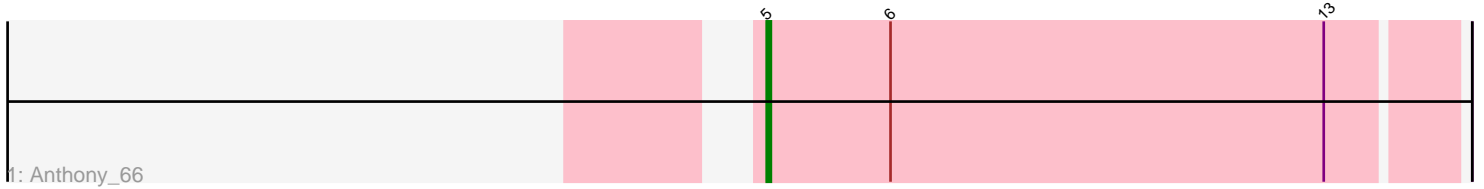


Pham 203453



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 203453 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203453 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Anthony_66
- Track 2 : Astro_73, Expelliarmus_70, Danforth_73, Groundhog_72, Smeadley_73
- Track 3 : Dixon_72, Saintus_68, NearlyHeadless_73
- Track 4 : Roary_74
- Track 5 : Phillis_70
- Track 6 : Avocado_47
- Track 7 : Pace1224_45
- Track 8 : Cambiare_47

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

The start number called the most often in the published annotations is 4, it was called in 11 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Astro_73, Avocado_47, Danforth_73, Dixon_72, Expelliarmus_70, Groundhog_72, NearlyHeadless_73, Pace1224_45, Phillis_70, Roary_74, Saintus_68, Smeadley_73,

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

- Cambiare_47,

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

- Anthony_66,

Summary by start number:

Start 3:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cambiare_47 (G2),

Start 4:

- Found in 13 of 14 (92.9%) of genes in pham

- Manual Annotations of this start: 11 of 13
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Astro_73 (A8), Avocado_47 (G2), Danforth_73 (A8), Dixon_72 (A8), Expelliarmus_70 (A8), Groundhog_72 (A8), NearlyHeadless_73 (A8), Pace1224_45 (G2), Phillis_70 (A8), Roary_74 (A8), Saintus_68 (A8), Smeadley_73 (A8),

Start 5:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_66 (A20),

Summary by clusters:

There are 3 clusters represented in this pham: A20, A8, G2,

Info for manual annotations of cluster A20:

- Start number 5 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A8:

- Start number 4 was manually annotated 10 times for cluster A8.

Info for manual annotations of cluster G2:

- Start number 3 was manually annotated 1 time for cluster G2.
- Start number 4 was manually annotated 1 time for cluster G2.

Gene Information:

Gene: Anthony_66 Start: 40829, Stop: 40665, Start Num: 5

Candidate Starts for Anthony_66:

(Start: 5 @40829 has 1 MA's), (6, 40799), (13, 40694),

Gene: Astro_73 Start: 40939, Stop: 40778, Start Num: 4

Candidate Starts for Astro_73:

(Start: 4 @40939 has 11 MA's), (8, 40855), (11, 40810), (14, 40798),

Gene: Avocado_47 Start: 37189, Stop: 37362, Start Num: 4

Candidate Starts for Avocado_47:

(Start: 3 @37186 has 1 MA's), (Start: 4 @37189 has 11 MA's), (6, 37222), (7, 37231), (8, 37273), (10, 37309), (12, 37321), (13, 37327), (14, 37330),

Gene: Cambiare_47 Start: 37281, Stop: 37448, Start Num: 3

Candidate Starts for Cambiare_47:

(Start: 3 @37281 has 1 MA's), (Start: 4 @37284 has 11 MA's), (6, 37317), (7, 37326), (10, 37404), (15, 37428),

Gene: Danforth_73 Start: 40987, Stop: 40826, Start Num: 4

Candidate Starts for Danforth_73:

(Start: 4 @40987 has 11 MA's), (8, 40903), (11, 40858), (14, 40846),

Gene: Dixon_72 Start: 40507, Stop: 40346, Start Num: 4
Candidate Starts for Dixon_72:
(Start: 4 @40507 has 11 MA's), (8, 40423), (11, 40378), (14, 40366),

Gene: Expelliarmus_70 Start: 40711, Stop: 40550, Start Num: 4
Candidate Starts for Expelliarmus_70:
(Start: 4 @40711 has 11 MA's), (8, 40627), (11, 40582), (14, 40570),

Gene: Groundhog_72 Start: 40917, Stop: 40756, Start Num: 4
Candidate Starts for Groundhog_72:
(Start: 4 @40917 has 11 MA's), (8, 40833), (11, 40788), (14, 40776),

Gene: NearlyHeadless_73 Start: 40753, Stop: 40592, Start Num: 4
Candidate Starts for NearlyHeadless_73:
(Start: 4 @40753 has 11 MA's), (8, 40669), (11, 40624), (14, 40612),

Gene: Pace1224_45 Start: 36103, Stop: 36276, Start Num: 4
Candidate Starts for Pace1224_45:
(Start: 4 @36103 has 11 MA's), (6, 36136), (10, 36223), (12, 36235), (13, 36241), (14, 36244),

Gene: Phillis_70 Start: 40207, Stop: 40049, Start Num: 4
Candidate Starts for Phillis_70:
(1, 40354), (2, 40321), (Start: 4 @40207 has 11 MA's), (10, 40087), (14, 40066), (15, 40063), (16, 40060),

Gene: Roary_74 Start: 40972, Stop: 40811, Start Num: 4
Candidate Starts for Roary_74:
(Start: 4 @40972 has 11 MA's), (8, 40888), (9, 40876), (11, 40843), (14, 40831),

Gene: Saintus_68 Start: 37637, Stop: 37476, Start Num: 4
Candidate Starts for Saintus_68:
(Start: 4 @37637 has 11 MA's), (8, 37553), (11, 37508), (14, 37496),

Gene: Smeadley_73 Start: 40833, Stop: 40672, Start Num: 4
Candidate Starts for Smeadley_73:
(Start: 4 @40833 has 11 MA's), (8, 40749), (11, 40704), (14, 40692),