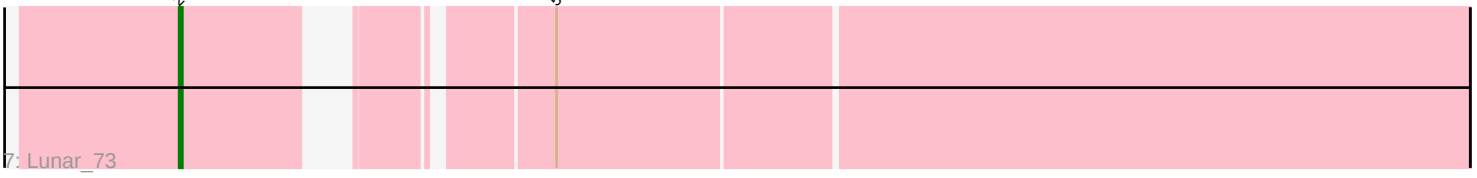
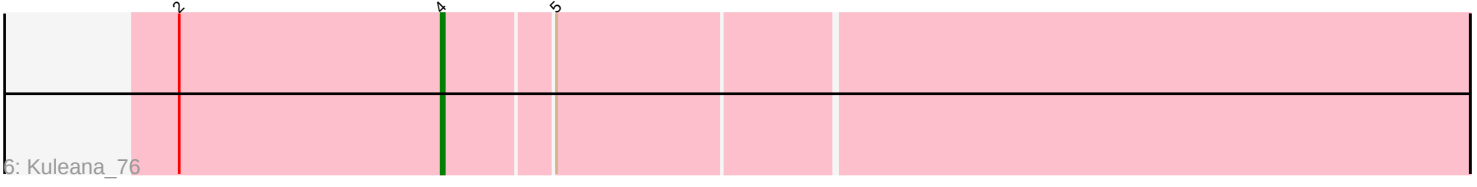
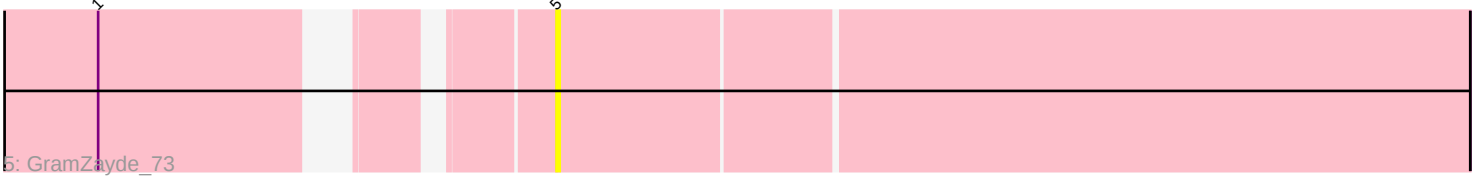
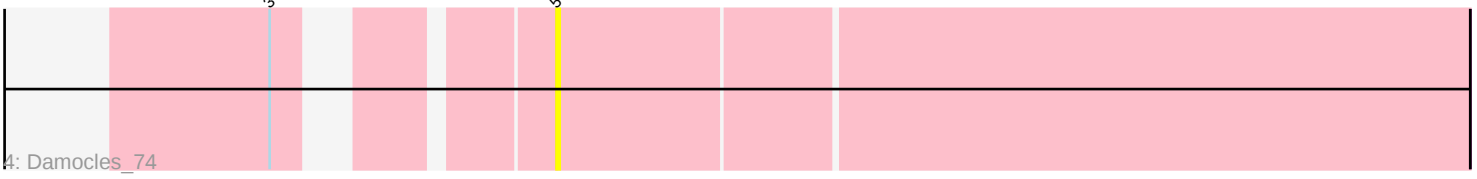
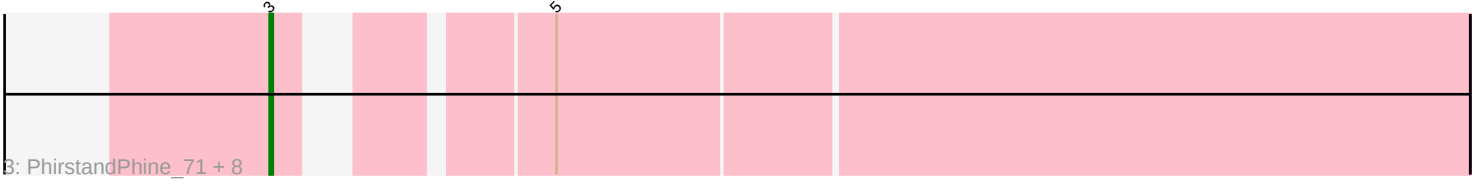
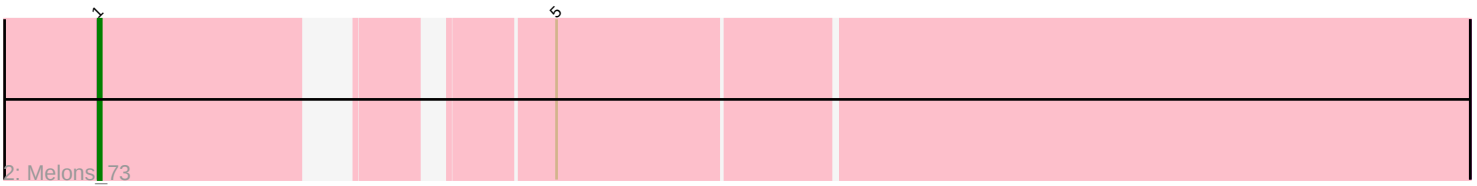
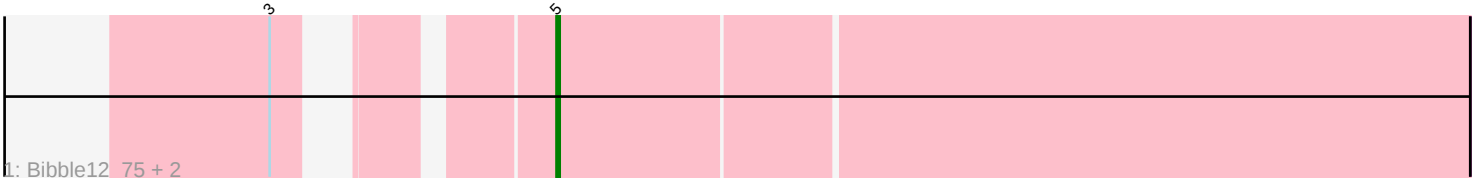


Pham 331315



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 331315 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331315 has 18 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Bibble12_75, BadWillHunting_77, Pineda_72
- Track 2 : Melons_73
- Track 3 : PhirstandPhine_71, OtsoOtso_72, Coral_72, Kepler_75, Cote_75, Colusalem_71, Amelia_71, Polka_71, Daob_71
- Track 4 : Damocles_74
- Track 5 : GramZayde_73
- Track 6 : Kuleana_76
- Track 7 : Lunar_73
- Track 8 : BigSherm_68

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

The start number called the most often in the published annotations is 3, it was called in 9 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amelia_71, Colusalem_71, Coral_72, Cote_75, Daob_71, Kepler_75, OtsoOtso_72, PhirstandPhine_71, Polka_71,

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

- BadWillHunting_77, Bibble12_75, Damocles_74, Pineda_72,

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

- BigSherm_68, GramZayde_73, Kuleana_76, Lunar_73, Melons_73,

Summary by start number:

Start 1:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Melons_73 (AS2),

Start 2:

- Found in 3 of 18 (16.7%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BigSherm_68 (FF), Lunar_73 (AS2),

Start 3:

- Found in 13 of 18 (72.2%) of genes in pham
- Manual Annotations of this start: 9 of 14
- Called 69.2% of time when present
- Phage (with cluster) where this start called: Amelia_71 (AS2), Colusalem_71 (AS2), Coral_72 (AS2), Cote_75 (AS2), Daob_71 (AS2), Kepler_75 (AS2), OtsoOtso_72 (AS2), PhirstandPhine_71 (AS2), Polka_71 (AS2),

Start 4:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kuleana_76 (AS2),

Start 5:

- Found in 17 of 18 (94.4%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 29.4% of time when present
- Phage (with cluster) where this start called: BadWillHunting_77 (AS2), Bibble12_75 (AS2), Damocles_74 (AS2), GramZayde_73 (AS2), Pineda_72 (AS2),

Summary by clusters:

There are 2 clusters represented in this pham: AS2, FF,

Info for manual annotations of cluster AS2:

- Start number 1 was manually annotated 1 time for cluster AS2.
- Start number 2 was manually annotated 1 time for cluster AS2.
- Start number 3 was manually annotated 9 times for cluster AS2.
- Start number 4 was manually annotated 1 time for cluster AS2.
- Start number 5 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster FF:

- Start number 2 was manually annotated 1 time for cluster FF.

Gene Information:

Gene: Amelia_71 Start: 37701, Stop: 38054, Start Num: 3

Candidate Starts for Amelia_71:

(Start: 3 @37701 has 9 MA's), (Start: 5 @37767 has 1 MA's),

Gene: BadWillHunting_77 Start: 38368, Stop: 38655, Start Num: 5

Candidate Starts for BadWillHunting_77:

(Start: 3 @38305 has 9 MA's), (Start: 5 @38368 has 1 MA's),

Gene: Bibble12_75 Start: 38337, Stop: 38624, Start Num: 5

Candidate Starts for Bibble12_75:

(Start: 3 @38274 has 9 MA's), (Start: 5 @38337 has 1 MA's),

Gene: BigSherm_68 Start: 41205, Stop: 41600, Start Num: 2

Candidate Starts for BigSherm_68:

(Start: 2 @41205 has 2 MA's), (6, 41400), (7, 41460), (8, 41532), (9, 41574),

Gene: Colusalem_71 Start: 37678, Stop: 38028, Start Num: 3

Candidate Starts for Colusalem_71:

(Start: 3 @37678 has 9 MA's), (Start: 5 @37741 has 1 MA's),

Gene: Coral_72 Start: 37893, Stop: 38243, Start Num: 3

Candidate Starts for Coral_72:

(Start: 3 @37893 has 9 MA's), (Start: 5 @37956 has 1 MA's),

Gene: Cote_75 Start: 38617, Stop: 38970, Start Num: 3

Candidate Starts for Cote_75:

(Start: 3 @38617 has 9 MA's), (Start: 5 @38683 has 1 MA's),

Gene: Damocles_74 Start: 37903, Stop: 38190, Start Num: 5

Candidate Starts for Damocles_74:

(Start: 3 @37837 has 9 MA's), (Start: 5 @37903 has 1 MA's),

Gene: Daob_71 Start: 37543, Stop: 37893, Start Num: 3

Candidate Starts for Daob_71:

(Start: 3 @37543 has 9 MA's), (Start: 5 @37606 has 1 MA's),

Gene: GramZayde_73 Start: 38451, Stop: 38738, Start Num: 5

Candidate Starts for GramZayde_73:

(Start: 1 @38334 has 1 MA's), (Start: 5 @38451 has 1 MA's),

Gene: Kepler_75 Start: 38025, Stop: 38375, Start Num: 3

Candidate Starts for Kepler_75:

(Start: 3 @38025 has 9 MA's), (Start: 5 @38088 has 1 MA's),

Gene: Kuleana_76 Start: 38455, Stop: 38775, Start Num: 4

Candidate Starts for Kuleana_76:

(Start: 2 @38371 has 2 MA's), (Start: 4 @38455 has 1 MA's), (Start: 5 @38488 has 1 MA's),

Gene: Lunar_73 Start: 37996, Stop: 38376, Start Num: 2

Candidate Starts for Lunar_73:

(Start: 2 @37996 has 2 MA's), (Start: 5 @38089 has 1 MA's),

Gene: Melons_73 Start: 37979, Stop: 38383, Start Num: 1

Candidate Starts for Melons_73:

(Start: 1 @37979 has 1 MA's), (Start: 5 @38096 has 1 MA's),

Gene: OtsoOtso_72 Start: 37650, Stop: 38003, Start Num: 3

Candidate Starts for OtsoOtso_72:

(Start: 3 @37650 has 9 MA's), (Start: 5 @37716 has 1 MA's),

Gene: PhirstandPhine_71 Start: 37839, Stop: 38192, Start Num: 3

Candidate Starts for PhirstandPhine_71:

(Start: 3 @37839 has 9 MA's), (Start: 5 @37905 has 1 MA's),

Gene: Pineda_72 Start: 38058, Stop: 38345, Start Num: 5

Candidate Starts for Pineda_72:

(Start: 3 @37995 has 9 MA's), (Start: 5 @38058 has 1 MA's),

Gene: Polka_71 Start: 37650, Stop: 38003, Start Num: 3

Candidate Starts for Polka_71:

(Start: 3 @37650 has 9 MA's), (Start: 5 @37716 has 1 MA's),