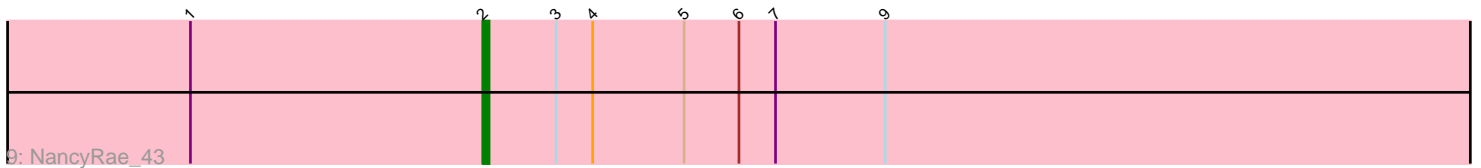
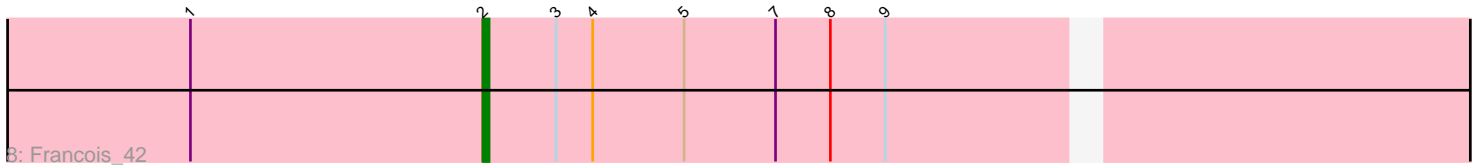
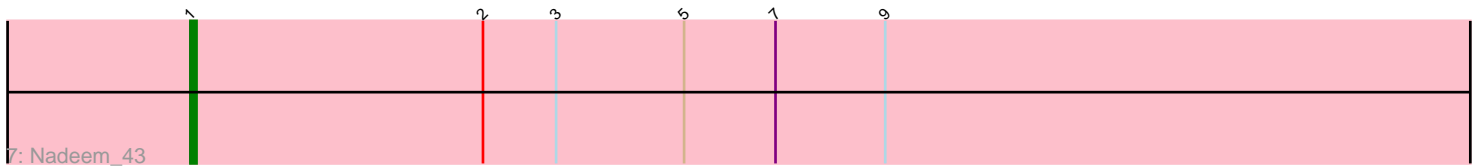
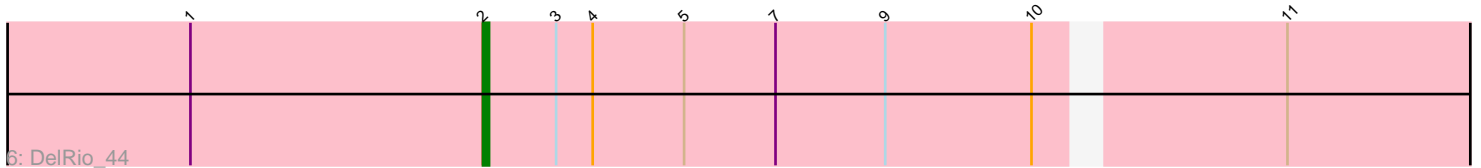
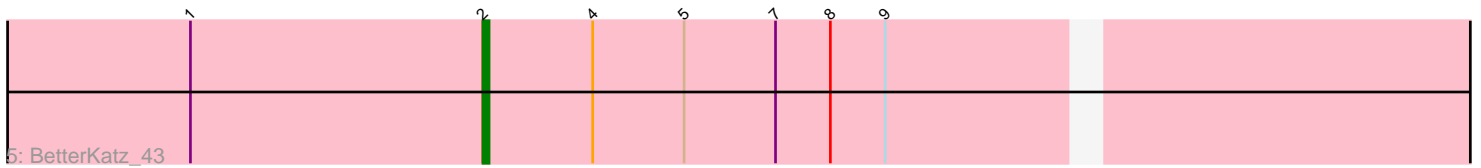
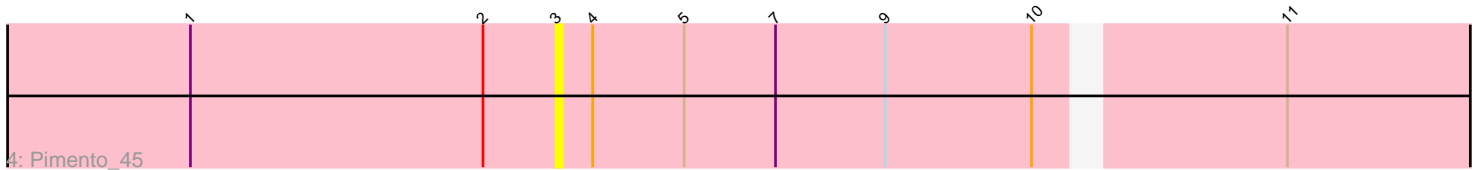
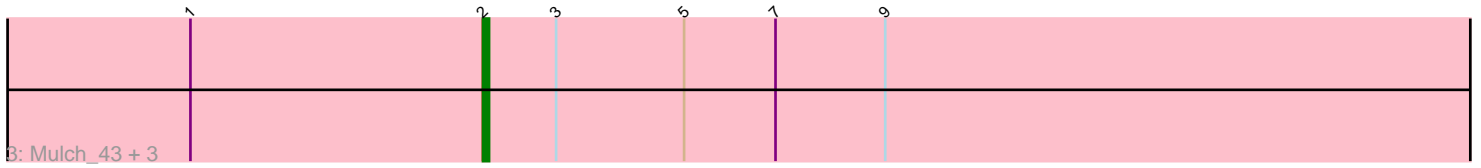
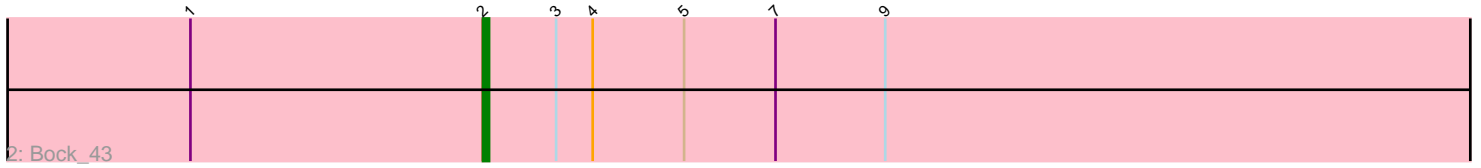
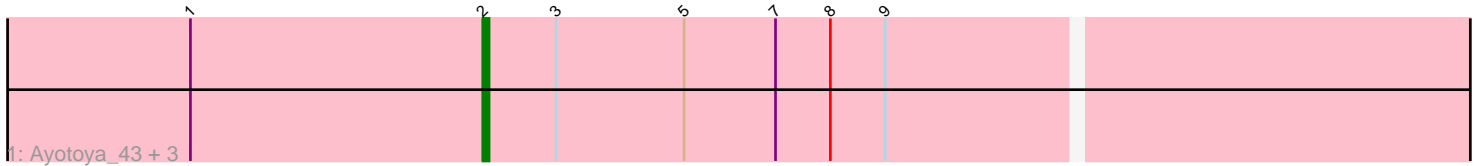


Pham 171856



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 171856 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171856 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Ayotoya\_43, Hamood\_43, Chop\_43, GrandSlam\_43
- Track 2 : Bock\_43
- Track 3 : Mulch\_43, WheatThin\_43, Brylie\_43, Parada\_43
- Track 4 : Pimento\_45
- Track 5 : BetterKatz\_43
- Track 6 : DelRio\_44
- Track 7 : Nadeem\_43
- Track 8 : Francois\_42
- Track 9 : NancyRae\_43

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya\_43, BetterKatz\_43, Bock\_43, Brylie\_43, Chop\_43, DelRio\_44, Francois\_42, GrandSlam\_43, Hamood\_43, Mulch\_43, NancyRae\_43, Parada\_43, WheatThin\_43,

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

- Nadeem\_43, Pimento\_45,

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

- 

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

Start 1:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Nadeem\_43 (DI),

#### Start 2:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Ayotoya\_43 (DI), BetterKatz\_43 (DI), Bock\_43 (DI), Brylie\_43 (DI), Chop\_43 (DI), DelRio\_44 (DI), Francois\_42 (DI), GrandSlam\_43 (DI), Hamood\_43 (DI), Mulch\_43 (DI), NancyRae\_43 (DI), Parada\_43 (DI), WheatThin\_43 (DI),

#### Start 3:

- Found in 14 of 15 ( 93.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Pimento\_45 (DI),

#### Summary by clusters:

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:

- Start number 1 was manually annotated 1 time for cluster DI.
- Start number 2 was manually annotated 12 times for cluster DI.

#### **Gene Information:**

Gene: Ayotoya\_43 Start: 33629, Stop: 33799, Start Num: 2

Candidate Starts for Ayotoya\_43:

(Start: 1 @33581 has 1 MA's), (Start: 2 @33629 has 12 MA's), (3, 33641), (5, 33662), (7, 33677), (8, 33686), (9, 33695),

Gene: BetterKatz\_43 Start: 33157, Stop: 33324, Start Num: 2

Candidate Starts for BetterKatz\_43:

(Start: 1 @33109 has 1 MA's), (Start: 2 @33157 has 12 MA's), (4, 33175), (5, 33190), (7, 33205), (8, 33214), (9, 33223),

Gene: Bock\_43 Start: 32849, Stop: 33022, Start Num: 2

Candidate Starts for Bock\_43:

(Start: 1 @32801 has 1 MA's), (Start: 2 @32849 has 12 MA's), (3, 32861), (4, 32867), (5, 32882), (7, 32897), (9, 32915),

Gene: Brylie\_43 Start: 32896, Stop: 33069, Start Num: 2

Candidate Starts for Brylie\_43:

(Start: 1 @32848 has 1 MA's), (Start: 2 @32896 has 12 MA's), (3, 32908), (5, 32929), (7, 32944), (9, 32962),

Gene: Chop\_43 Start: 33376, Stop: 33546, Start Num: 2

Candidate Starts for Chop\_43:

(Start: 1 @33328 has 1 MA's), (Start: 2 @33376 has 12 MA's), (3, 33388), (5, 33409), (7, 33424), (8, 33433), (9, 33442),

Gene: DelRio\_44 Start: 34084, Stop: 34251, Start Num: 2

Candidate Starts for DelRio\_44:

(Start: 1 @34036 has 1 MA's), (Start: 2 @34084 has 12 MA's), (3, 34096), (4, 34102), (5, 34117), (7, 34132), (9, 34150), (10, 34174), (11, 34210),

Gene: Francois\_42 Start: 32980, Stop: 33147, Start Num: 2

Candidate Starts for Francois\_42:

(Start: 1 @32932 has 1 MA's), (Start: 2 @32980 has 12 MA's), (3, 32992), (4, 32998), (5, 33013), (7, 33028), (8, 33037), (9, 33046),

Gene: GrandSlam\_43 Start: 33376, Stop: 33546, Start Num: 2

Candidate Starts for GrandSlam\_43:

(Start: 1 @33328 has 1 MA's), (Start: 2 @33376 has 12 MA's), (3, 33388), (5, 33409), (7, 33424), (8, 33433), (9, 33442),

Gene: Hamood\_43 Start: 33376, Stop: 33546, Start Num: 2

Candidate Starts for Hamood\_43:

(Start: 1 @33328 has 1 MA's), (Start: 2 @33376 has 12 MA's), (3, 33388), (5, 33409), (7, 33424), (8, 33433), (9, 33442),

Gene: Mulch\_43 Start: 32896, Stop: 33069, Start Num: 2

Candidate Starts for Mulch\_43:

(Start: 1 @32848 has 1 MA's), (Start: 2 @32896 has 12 MA's), (3, 32908), (5, 32929), (7, 32944), (9, 32962),

Gene: Nadeem\_43 Start: 32848, Stop: 33069, Start Num: 1

Candidate Starts for Nadeem\_43:

(Start: 1 @32848 has 1 MA's), (Start: 2 @32896 has 12 MA's), (3, 32908), (5, 32929), (7, 32944), (9, 32962),

Gene: NancyRae\_43 Start: 32906, Stop: 33079, Start Num: 2

Candidate Starts for NancyRae\_43:

(Start: 1 @32858 has 1 MA's), (Start: 2 @32906 has 12 MA's), (3, 32918), (4, 32924), (5, 32939), (6, 32948), (7, 32954), (9, 32972),

Gene: Parada\_43 Start: 32896, Stop: 33069, Start Num: 2

Candidate Starts for Parada\_43:

(Start: 1 @32848 has 1 MA's), (Start: 2 @32896 has 12 MA's), (3, 32908), (5, 32929), (7, 32944), (9, 32962),

Gene: Pimento\_45 Start: 32565, Stop: 32720, Start Num: 3

Candidate Starts for Pimento\_45:

(Start: 1 @32505 has 1 MA's), (Start: 2 @32553 has 12 MA's), (3, 32565), (4, 32571), (5, 32586), (7, 32601), (9, 32619), (10, 32643), (11, 32679),

Gene: WheatThin\_43 Start: 32896, Stop: 33069, Start Num: 2

Candidate Starts for WheatThin\_43:

(Start: 1 @32848 has 1 MA's), (Start: 2 @32896 has 12 MA's), (3, 32908), (5, 32929), (7, 32944), (9, 32962),