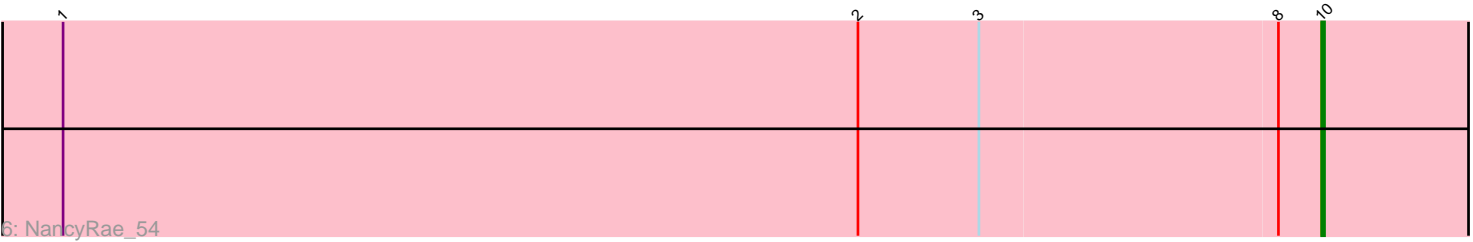
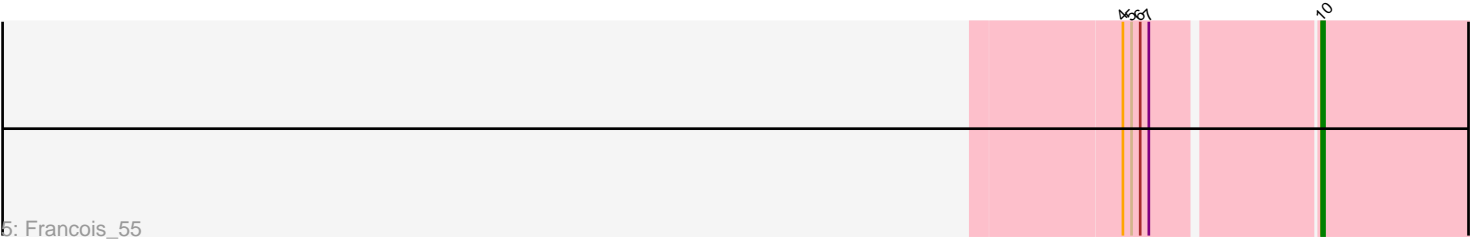
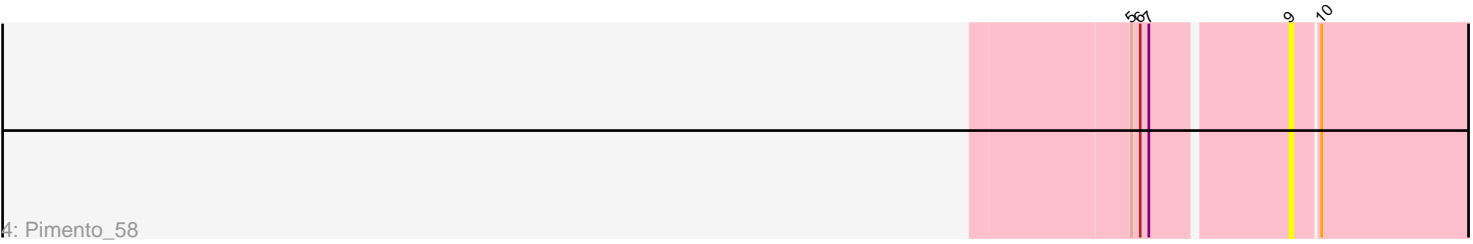
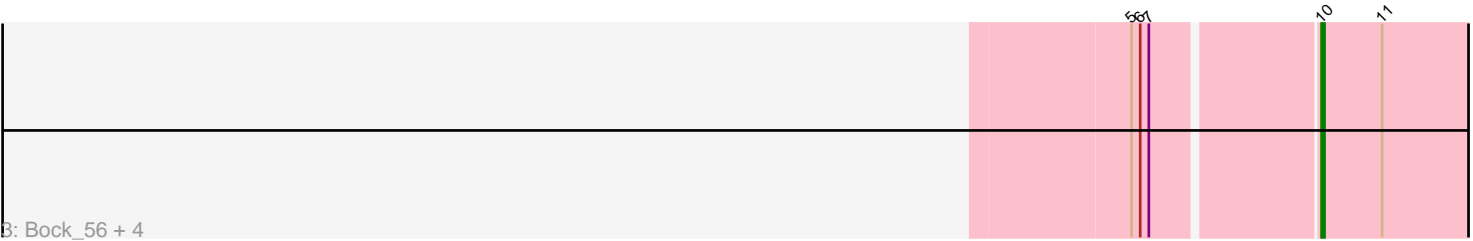
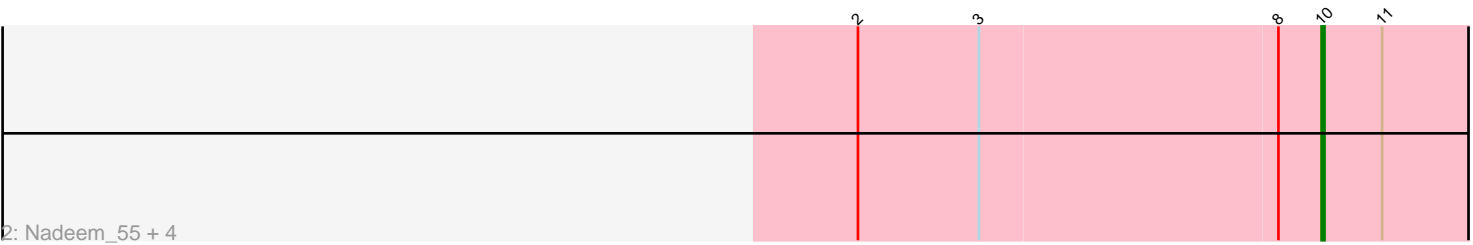
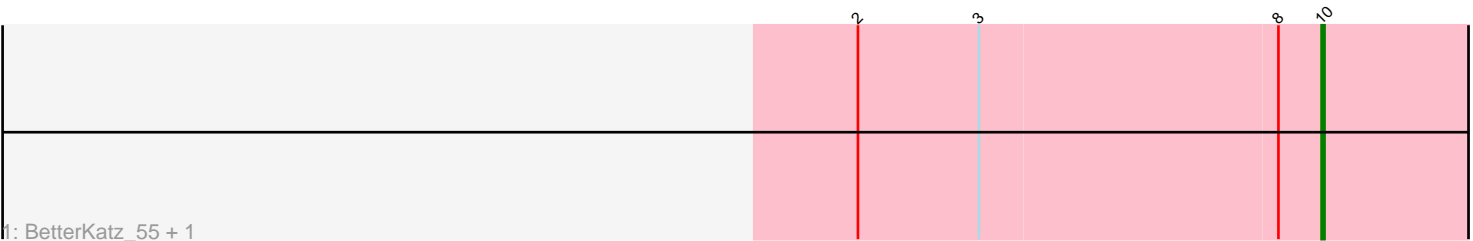


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 4670 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4670 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BetterKatz\_55, DelRio\_56
- Track 2 : Nadeem\_55, Brylie\_55, Parada\_55, WheatThin\_54, Mulch\_55
- Track 3 : Bock\_56, GrandSlam\_56, Hamood\_56, Ayotoya\_56, Chop\_56
- Track 4 : Pimento\_58
- Track 5 : Francois\_55
- Track 6 : NancyRae\_54

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

The start number called the most often in the published annotations is 10, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya\_56, BetterKatz\_55, Bock\_56, Brylie\_55, Chop\_56, DelRio\_56, Francois\_55, GrandSlam\_56, Hamood\_56, Mulch\_55, Nadeem\_55, NancyRae\_54, Parada\_55, WheatThin\_54,

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

- Pimento\_58,

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

- 

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

Start 9:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pimento\_58 (DI),

Start 10:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13

- Called 93.3% of time when present
- Phage (with cluster) where this start called: Ayotoya\_56 (DI), BetterKatz\_55 (DI), Bock\_56 (DI), Brylie\_55 (DI), Chop\_56 (DI), DelRio\_56 (DI), Francois\_55 (DI), GrandSlam\_56 (DI), Hamood\_56 (DI), Mulch\_55 (DI), Nadeem\_55 (DI), NancyRae\_54 (DI), Parada\_55 (DI), WheatThin\_54 (DI),

### **Summary by clusters:**

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:

- Start number 10 was manually annotated 13 times for cluster DI.

### **Gene Information:**

Gene: Ayotoya\_56 Start: 39560, Stop: 39673, Start Num: 10

Candidate Starts for Ayotoya\_56:

(5, 39500), (6, 39503), (7, 39506), (Start: 10 @39560 has 13 MA's), (11, 39581),

Gene: BetterKatz\_55 Start: 38759, Stop: 38872, Start Num: 10

Candidate Starts for BetterKatz\_55:

(2, 38600), (3, 38642), (8, 38744), (Start: 10 @38759 has 13 MA's),

Gene: Bock\_56 Start: 38792, Stop: 38905, Start Num: 10

Candidate Starts for Bock\_56:

(5, 38732), (6, 38735), (7, 38738), (Start: 10 @38792 has 13 MA's), (11, 38813),

Gene: Brylie\_55 Start: 38540, Stop: 38653, Start Num: 10

Candidate Starts for Brylie\_55:

(2, 38381), (3, 38423), (8, 38525), (Start: 10 @38540 has 13 MA's), (11, 38561),

Gene: Chop\_56 Start: 39311, Stop: 39424, Start Num: 10

Candidate Starts for Chop\_56:

(5, 39251), (6, 39254), (7, 39257), (Start: 10 @39311 has 13 MA's), (11, 39332),

Gene: DelRio\_56 Start: 39722, Stop: 39835, Start Num: 10

Candidate Starts for DelRio\_56:

(2, 39563), (3, 39605), (8, 39707), (Start: 10 @39722 has 13 MA's),

Gene: Francois\_55 Start: 38798, Stop: 38911, Start Num: 10

Candidate Starts for Francois\_55:

(4, 38735), (5, 38738), (6, 38741), (7, 38744), (Start: 10 @38798 has 13 MA's),

Gene: GrandSlam\_56 Start: 39311, Stop: 39424, Start Num: 10

Candidate Starts for GrandSlam\_56:

(5, 39251), (6, 39254), (7, 39257), (Start: 10 @39311 has 13 MA's), (11, 39332),

Gene: Hamood\_56 Start: 39311, Stop: 39424, Start Num: 10

Candidate Starts for Hamood\_56:

(5, 39251), (6, 39254), (7, 39257), (Start: 10 @39311 has 13 MA's), (11, 39332),

Gene: Mulch\_55 Start: 38540, Stop: 38653, Start Num: 10

Candidate Starts for Mulch\_55:

(2, 38381), (3, 38423), (8, 38525), (Start: 10 @38540 has 13 MA's), (11, 38561),

Gene: Nadeem\_55 Start: 38528, Stop: 38641, Start Num: 10

Candidate Starts for Nadeem\_55:

(2, 38369), (3, 38411), (8, 38513), (Start: 10 @38528 has 13 MA's), (11, 38549),

Gene: NancyRae\_54 Start: 38526, Stop: 38639, Start Num: 10

Candidate Starts for NancyRae\_54:

(1, 38091), (2, 38367), (3, 38409), (8, 38511), (Start: 10 @38526 has 13 MA's),

Gene: Parada\_55 Start: 38540, Stop: 38653, Start Num: 10

Candidate Starts for Parada\_55:

(2, 38381), (3, 38423), (8, 38525), (Start: 10 @38540 has 13 MA's), (11, 38561),

Gene: Pimento\_58 Start: 38430, Stop: 38552, Start Num: 9

Candidate Starts for Pimento\_58:

(5, 38379), (6, 38382), (7, 38385), (9, 38430), (Start: 10 @38439 has 13 MA's),

Gene: WheatThin\_54 Start: 38528, Stop: 38641, Start Num: 10

Candidate Starts for WheatThin\_54:

(2, 38369), (3, 38411), (8, 38513), (Start: 10 @38528 has 13 MA's), (11, 38549),