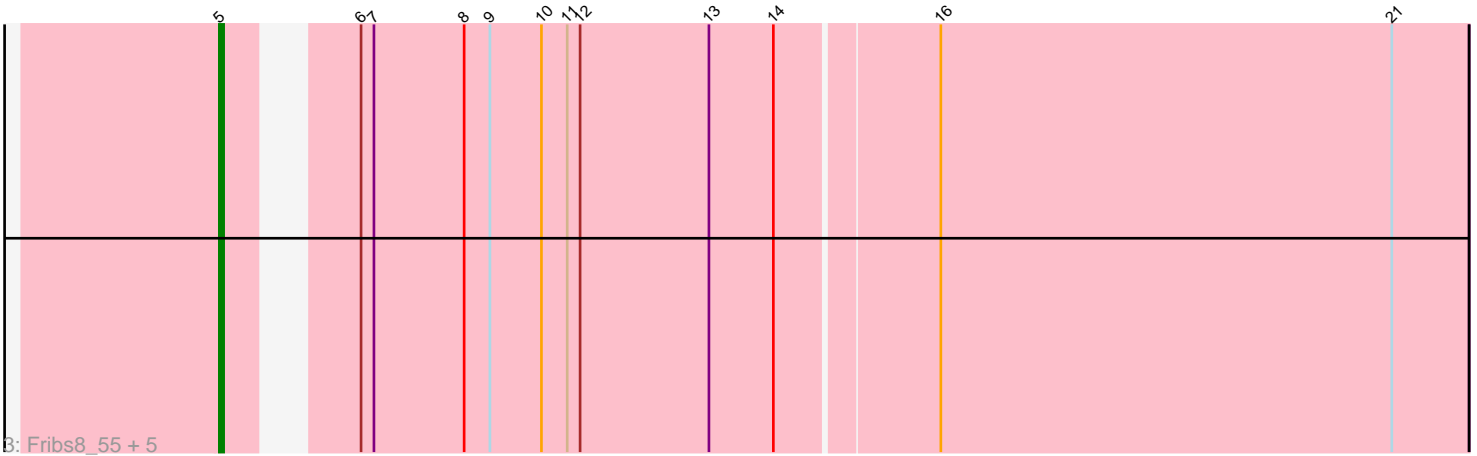
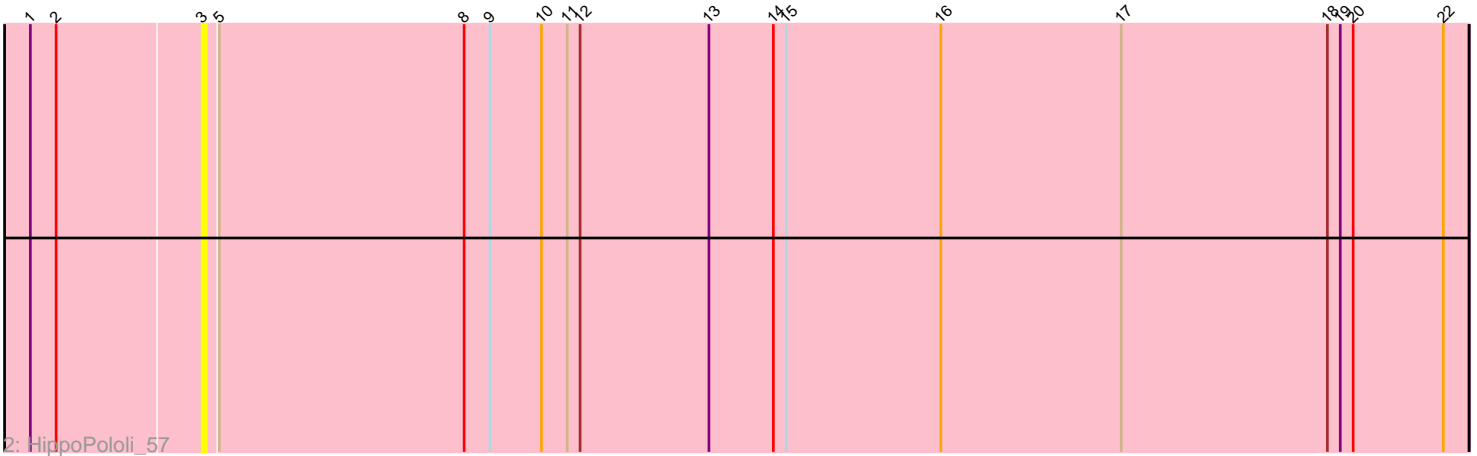
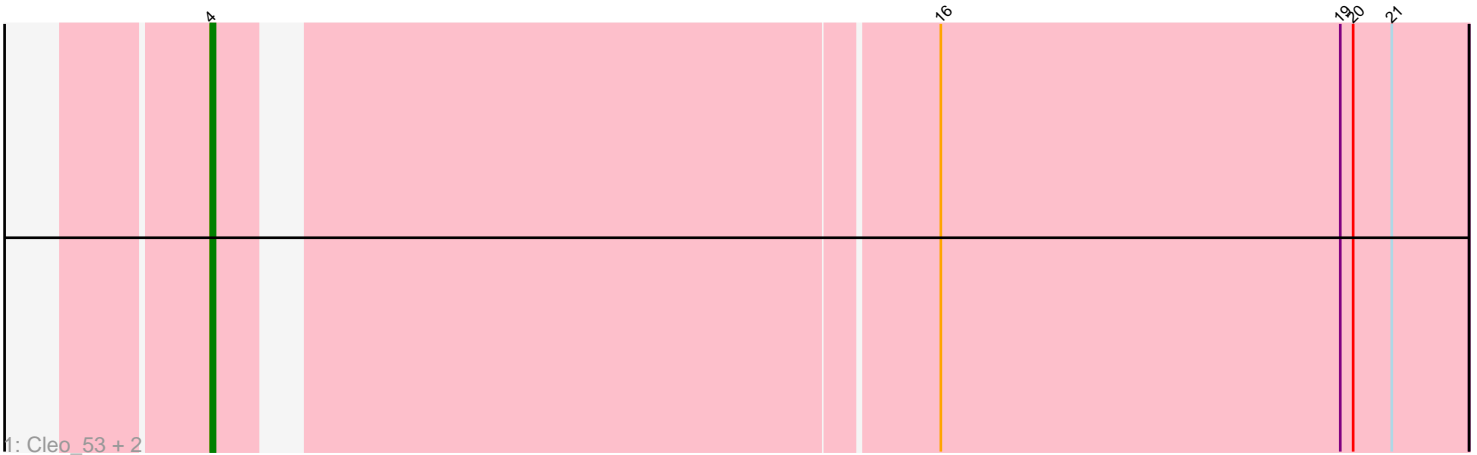


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 10270 Report

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

Pham number 10270 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Cleo\_53, Gibbous\_56, Dre3\_56
- Track 2 : HippoPololi\_57
- Track 3 : Fribs8\_55, Nibbles\_54, Zareef\_57, Azira\_55, Survivors\_56, MaVan\_55

### ***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 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azira\_55, Fribs8\_55, MaVan\_55, Nibbles\_54, Survivors\_56, Zareef\_57,

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

- HippoPololi\_57,

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

- Cleo\_53, Dre3\_56, Gibbous\_56,

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

Start 3:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HippoPololi\_57 (CT),

Start 4:

- Found in 3 of 10 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cleo\_53 (CT), Dre3\_56 (CT), Gibbous\_56 (CT),

Start 5:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Azira\_55 (CT), Fribs8\_55 (CT), MaVan\_55 (CT), Nibbles\_54 (CT), Survivors\_56 (CT), Zareef\_57 (CT),

### **Summary by clusters:**

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 4 was manually annotated 3 times for cluster CT.
- Start number 5 was manually annotated 5 times for cluster CT.

### **Gene Information:**

Gene: Azira\_55 Start: 41608, Stop: 41883, Start Num: 5

Candidate Starts for Azira\_55:

(Start: 5 @41608 has 5 MA's), (6, 41629), (7, 41632), (8, 41653), (9, 41659), (10, 41671), (11, 41677), (12, 41680), (13, 41710), (14, 41725), (16, 41761), (21, 41866),

Gene: Cleo\_53 Start: 41360, Stop: 41638, Start Num: 4

Candidate Starts for Cleo\_53:

(Start: 4 @41360 has 3 MA's), (16, 41516), (19, 41609), (20, 41612), (21, 41621),

Gene: Dre3\_56 Start: 42204, Stop: 42482, Start Num: 4

Candidate Starts for Dre3\_56:

(Start: 4 @42204 has 3 MA's), (16, 42360), (19, 42453), (20, 42456), (21, 42465),

Gene: Fribs8\_55 Start: 42286, Stop: 42561, Start Num: 5

Candidate Starts for Fribs8\_55:

(Start: 5 @42286 has 5 MA's), (6, 42307), (7, 42310), (8, 42331), (9, 42337), (10, 42349), (11, 42355), (12, 42358), (13, 42388), (14, 42403), (16, 42439), (21, 42544),

Gene: Gibbous\_56 Start: 42204, Stop: 42482, Start Num: 4

Candidate Starts for Gibbous\_56:

(Start: 4 @42204 has 3 MA's), (16, 42360), (19, 42453), (20, 42456), (21, 42465),

Gene: HippoPololi\_57 Start: 41501, Stop: 41794, Start Num: 3

Candidate Starts for HippoPololi\_57:

(1, 41462), (2, 41468), (3, 41501), (Start: 5 @41504 has 5 MA's), (8, 41561), (9, 41567), (10, 41579), (11, 41585), (12, 41588), (13, 41618), (14, 41633), (15, 41636), (16, 41672), (17, 41714), (18, 41762), (19, 41765), (20, 41768), (22, 41789),

Gene: MaVan\_55 Start: 41638, Stop: 41913, Start Num: 5

Candidate Starts for MaVan\_55:

(Start: 5 @41638 has 5 MA's), (6, 41659), (7, 41662), (8, 41683), (9, 41689), (10, 41701), (11, 41707), (12, 41710), (13, 41740), (14, 41755), (16, 41791), (21, 41896),

Gene: Nibbles\_54 Start: 41318, Stop: 41593, Start Num: 5

Candidate Starts for Nibbles\_54:

(Start: 5 @41318 has 5 MA's), (6, 41339), (7, 41342), (8, 41363), (9, 41369), (10, 41381), (11, 41387), (12, 41390), (13, 41420), (14, 41435), (16, 41471), (21, 41576),

Gene: Survivors\_56 Start: 41530, Stop: 41805, Start Num: 5

Candidate Starts for Survivors\_56:

(Start: 5 @41530 has 5 MA's), (6, 41551), (7, 41554), (8, 41575), (9, 41581), (10, 41593), (11, 41599), (12, 41602), (13, 41632), (14, 41647), (16, 41683), (21, 41788),

Gene: Zareef\_57 Start: 41628, Stop: 41903, Start Num: 5

Candidate Starts for Zareef\_57:

(Start: 5 @41628 has 5 MA's), (6, 41649), (7, 41652), (8, 41673), (9, 41679), (10, 41691), (11, 41697), (12, 41700), (13, 41730), (14, 41745), (16, 41781), (21, 41886),