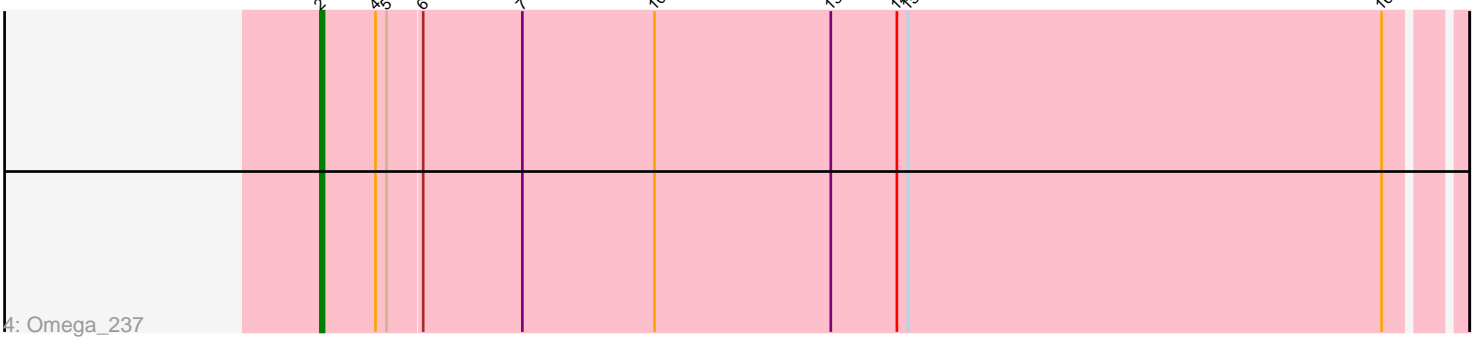
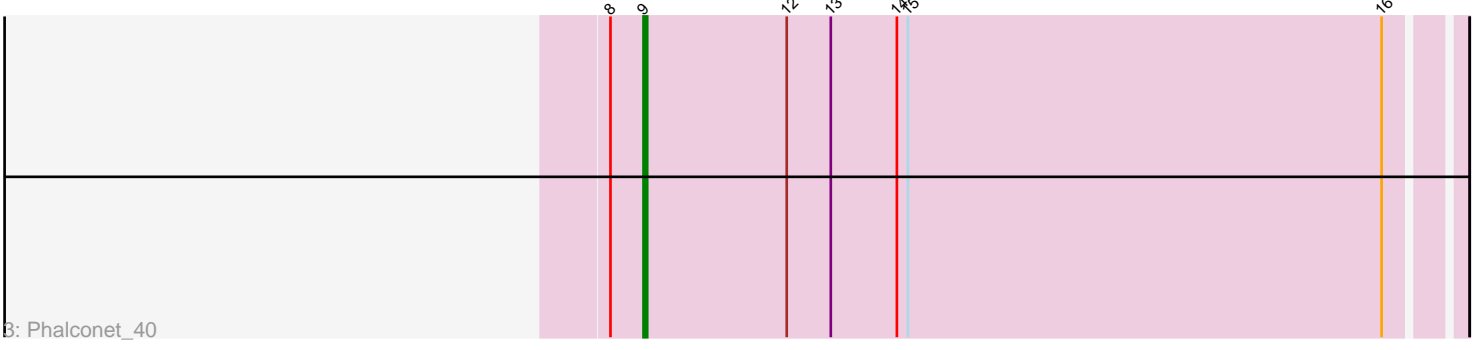
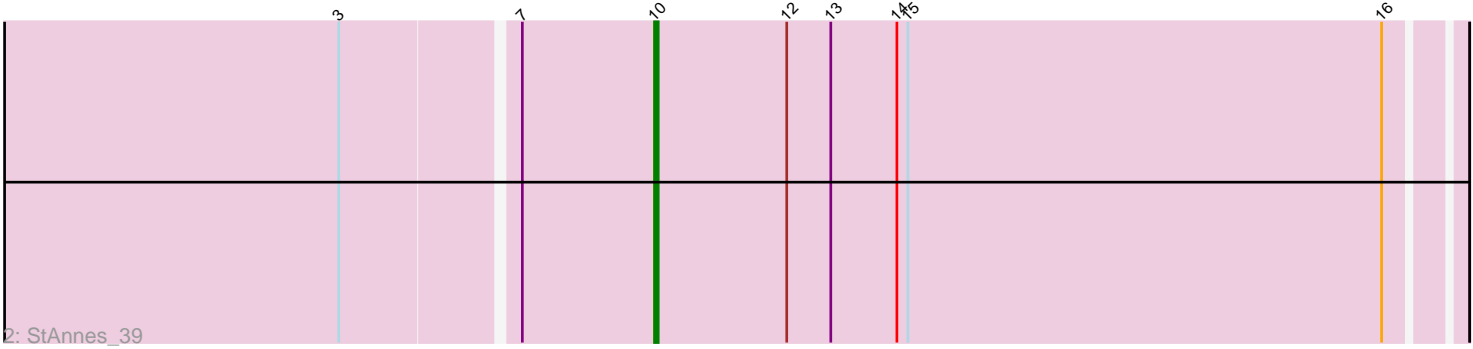
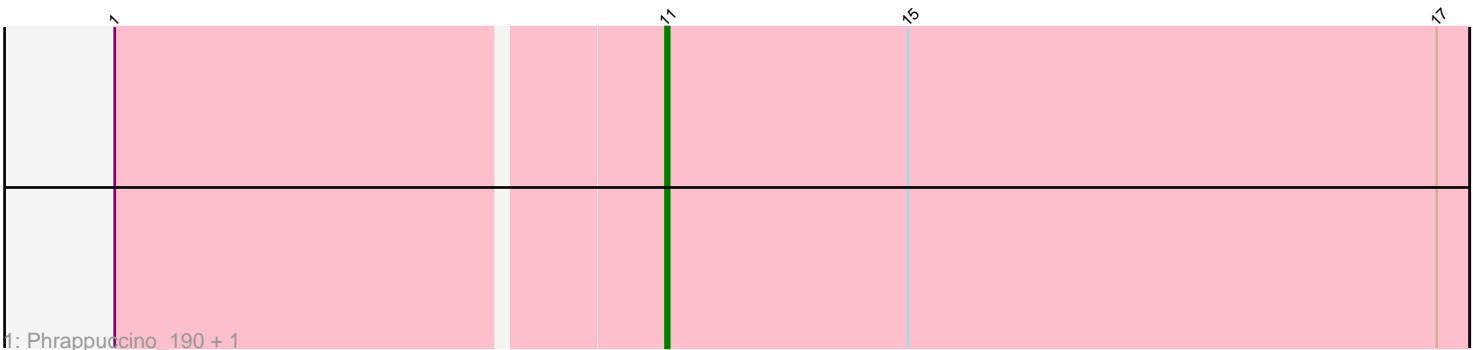


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 164281 Report

This analysis was run 05/04/24 on database version 560.

Pham number 164281 has 5 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Phrappuccino\_190, Settecandela\_215
- Track 2 : StAnnes\_39
- Track 3 : Phalconet\_40
- Track 4 : Omega\_237

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

The start number called the most often in the published annotations is 11, it was called in 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Phrappuccino\_190, Settecandela\_215,

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

- 

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

- Omega\_237, Phalconet\_40, StAnnes\_39,

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

Start 2:

- Found in 1 of 5 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Omega\_237 (J),

Start 9:

- Found in 1 of 5 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phalconet\_40 (F1),

Start 10:

- Found in 2 of 5 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 50.0% of time when present
- Phage (with cluster) where this start called: StAnnes\_39 (F1),

Start 11:

- Found in 2 of 5 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino\_190 (AA), Settecandela\_215 (AA),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AA, F1, J,

Info for manual annotations of cluster AA:

- Start number 11 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster F1:

- Start number 9 was manually annotated 1 time for cluster F1.
- Start number 10 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster J:

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

### **Gene Information:**

Gene: Omega\_237 Start: 110502, Stop: 110197, Start Num: 2

Candidate Starts for Omega\_237:

(Start: 2 @110502 has 1 MA's), (4, 110487), (5, 110484), (6, 110475), (7, 110448), (Start: 10 @110412 has 1 MA's), (13, 110364), (14, 110346), (15, 110343), (16, 110214),

Gene: Phalconet\_40 Start: 31533, Stop: 31315, Start Num: 9

Candidate Starts for Phalconet\_40:

(8, 31542), (Start: 9 @31533 has 1 MA's), (12, 31494), (13, 31482), (14, 31464), (15, 31461), (16, 31332),

Gene: Phrappuccino\_190 Start: 121245, Stop: 121463, Start Num: 11

Candidate Starts for Phrappuccino\_190:

(1, 121101), (Start: 11 @121245 has 2 MA's), (15, 121311), (17, 121455),

Gene: Settecandela\_215 Start: 130092, Stop: 130310, Start Num: 11

Candidate Starts for Settecandela\_215:

(1, 129948), (Start: 11 @130092 has 2 MA's), (15, 130158), (17, 130302),

Gene: StAnnes\_39 Start: 32000, Stop: 31785, Start Num: 10

Candidate Starts for StAnnes\_39:

(3, 32081), (7, 32036), (Start: 10 @32000 has 1 MA's), (12, 31964), (13, 31952), (14, 31934), (15, 31931), (16, 31802),