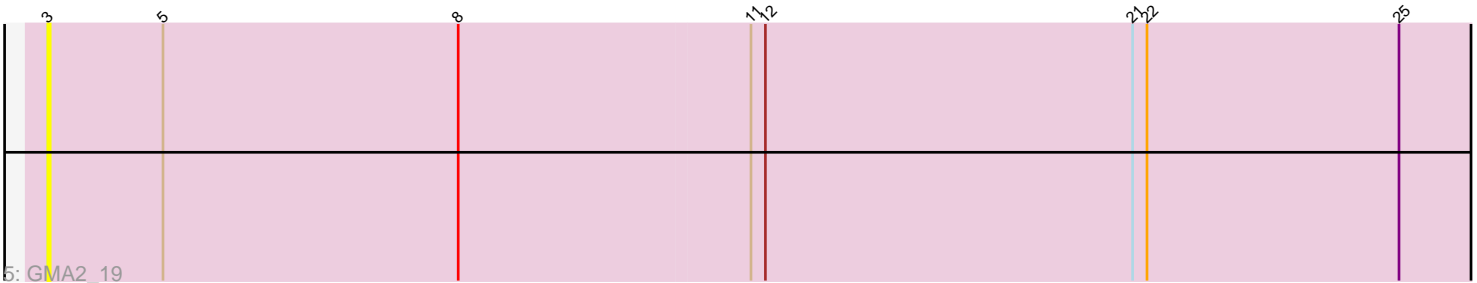
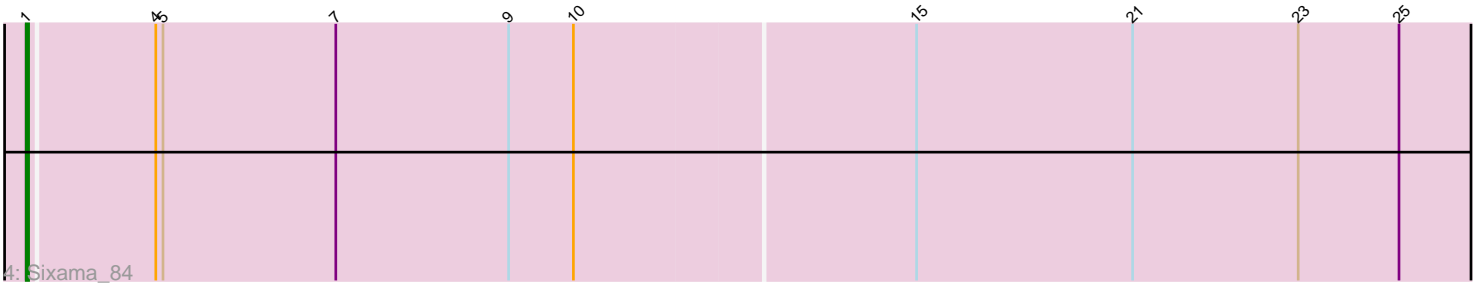
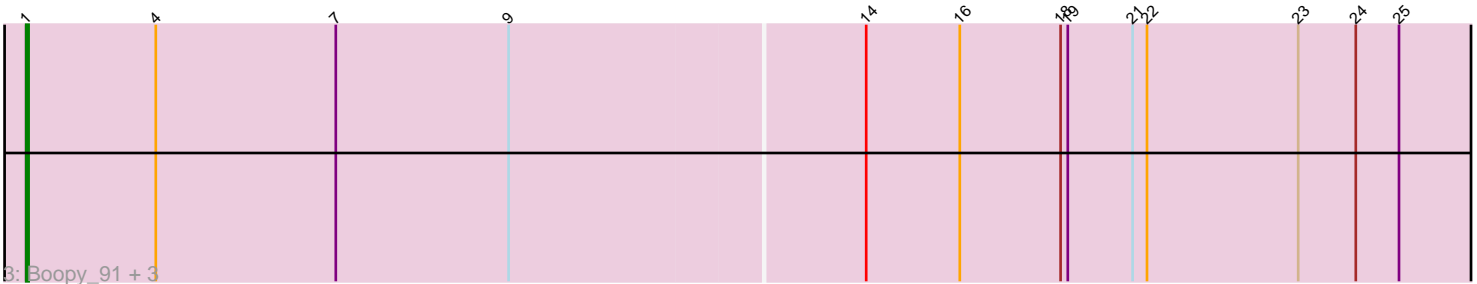
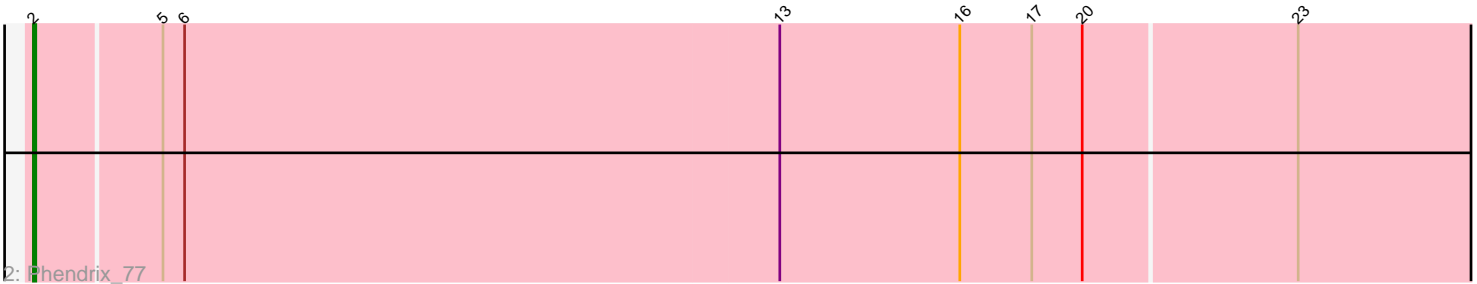
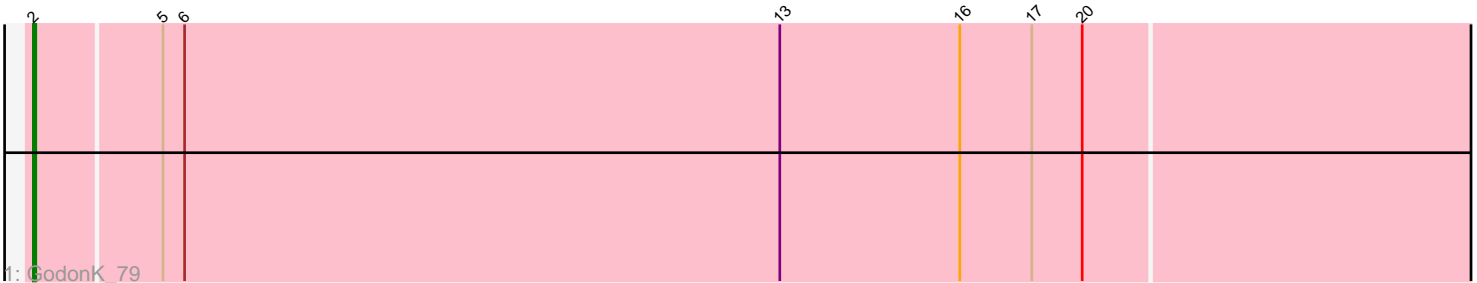


Pham 156891



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 156891 Report

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

Pham number 156891 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : GodonK\_79
- Track 2 : Phendrix\_77
- Track 3 : Boopy\_91, BlueNGold\_90, Forza\_91, Mareelih\_89
- Track 4 : Sixama\_84
- Track 5 : GMA2\_19

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

The start number called the most often in the published annotations is 1, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlueNGold\_90, Boopy\_91, Forza\_91, Mareelih\_89, Sixama\_84,

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

- 

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

- GMA2\_19, GodonK\_79, Phendrix\_77,

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

Start 1:

- Found in 5 of 8 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold\_90 (DS), Boopy\_91 (DS), Forza\_91 (DS), Mareelih\_89 (DS), Sixama\_84 (DS),

Start 2:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK\_79 (DK), Phendrix\_77 (DK),

Start 3:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2\_19 (DS),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DS, DK,

Info for manual annotations of cluster DK:

- Start number 2 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 1 was manually annotated 5 times for cluster DS.

### **Gene Information:**

Gene: BlueNGold\_90 Start: 48158, Stop: 48796, Start Num: 1

Candidate Starts for BlueNGold\_90:

(Start: 1 @48158 has 5 MA's), (4, 48212), (7, 48287), (9, 48359), (14, 48503), (16, 48542), (18, 48584), (19, 48587), (21, 48614), (22, 48620), (23, 48683), (24, 48707), (25, 48725),

Gene: Boopy\_91 Start: 48170, Stop: 48808, Start Num: 1

Candidate Starts for Boopy\_91:

(Start: 1 @48170 has 5 MA's), (4, 48224), (7, 48299), (9, 48371), (14, 48515), (16, 48554), (18, 48596), (19, 48599), (21, 48626), (22, 48632), (23, 48695), (24, 48719), (25, 48737),

Gene: Forza\_91 Start: 48086, Stop: 48724, Start Num: 1

Candidate Starts for Forza\_91:

(Start: 1 @48086 has 5 MA's), (4, 48140), (7, 48215), (9, 48287), (14, 48431), (16, 48470), (18, 48512), (19, 48515), (21, 48542), (22, 48548), (23, 48611), (24, 48635), (25, 48653),

Gene: GMA2\_19 Start: 18455, Stop: 19078, Start Num: 3

Candidate Starts for GMA2\_19:

(3, 18455), (5, 18503), (8, 18626), (11, 18746), (12, 18752), (21, 18905), (22, 18911), (25, 19016),

Gene: GodonK\_79 Start: 39897, Stop: 40520, Start Num: 2

Candidate Starts for GodonK\_79:

(Start: 2 @39897 has 2 MA's), (5, 39948), (6, 39957), (13, 40203), (16, 40278), (17, 40308), (20, 40329),

Gene: Mareelih\_89 Start: 47588, Stop: 48226, Start Num: 1

Candidate Starts for Mareelih\_89:

(Start: 1 @47588 has 5 MA's), (4, 47642), (7, 47717), (9, 47789), (14, 47933), (16, 47972), (18, 48014), (19, 48017), (21, 48044), (22, 48050), (23, 48113), (24, 48137), (25, 48155),

Gene: Phendrix\_77 Start: 39765, Stop: 40388, Start Num: 2

Candidate Starts for Phendrix\_77:

(Start: 2 @39765 has 2 MA's), (5, 39816), (6, 39825), (13, 40071), (16, 40146), (17, 40176), (20, 40197), (23, 40284),

Gene: Sixama\_84 Start: 44955, Stop: 45587, Start Num: 1

Candidate Starts for Sixama\_84:

(Start: 1 @44955 has 5 MA's), (4, 45006), (5, 45009), (7, 45081), (9, 45153), (10, 45180), (15, 45318), (21, 45408), (23, 45477), (25, 45519),