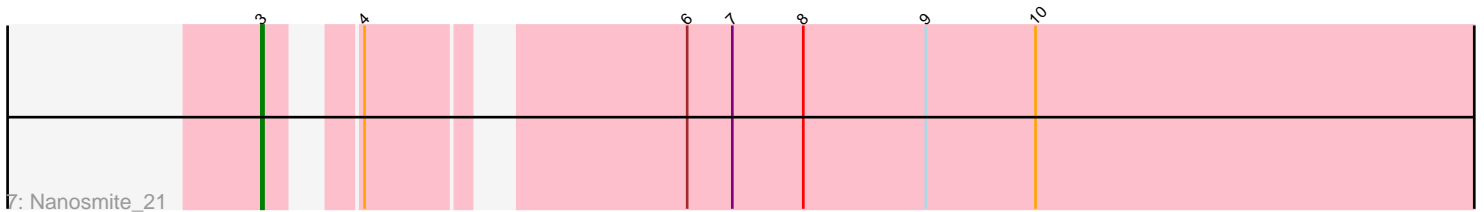
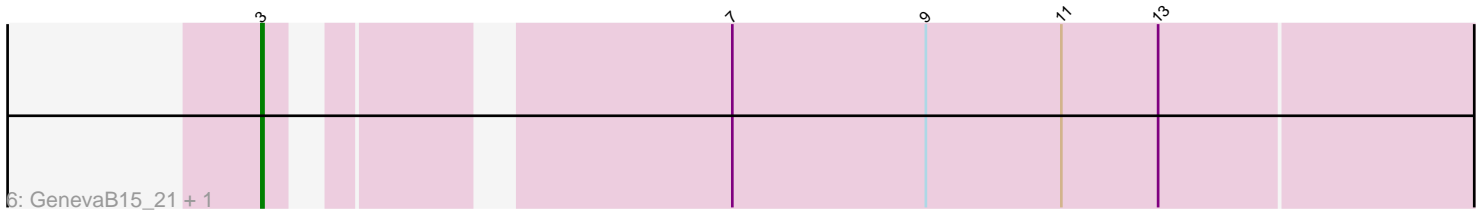
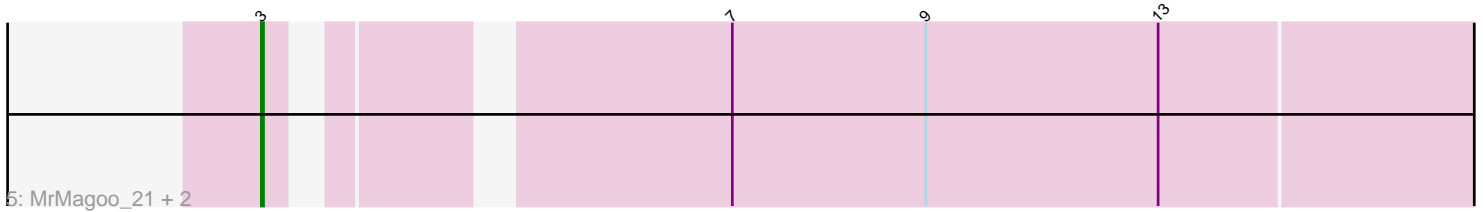
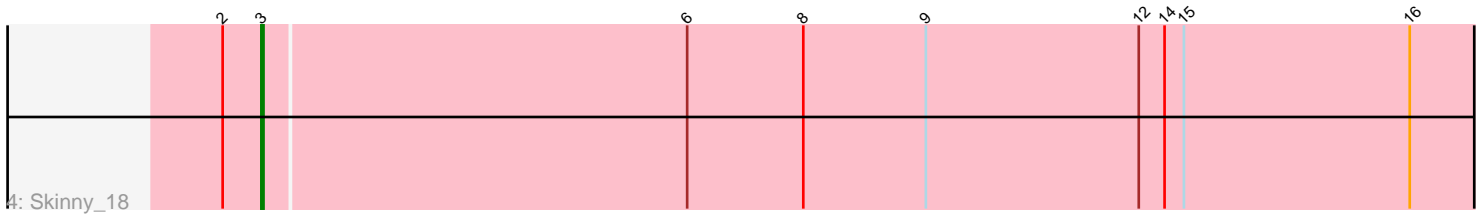
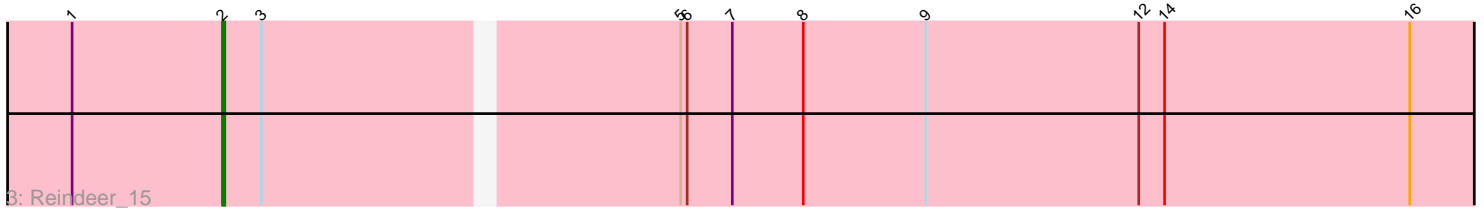
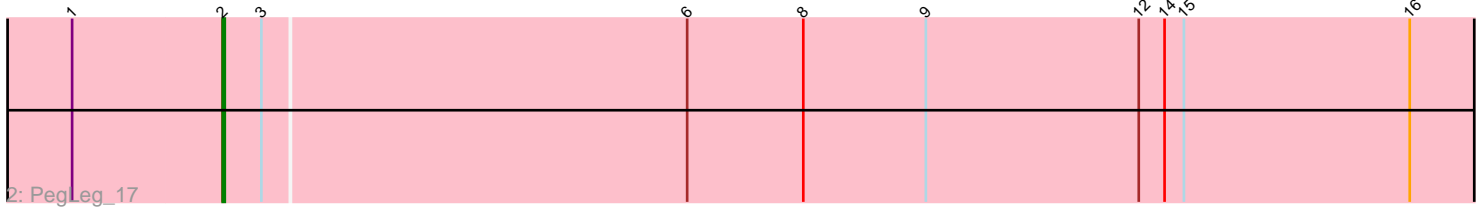
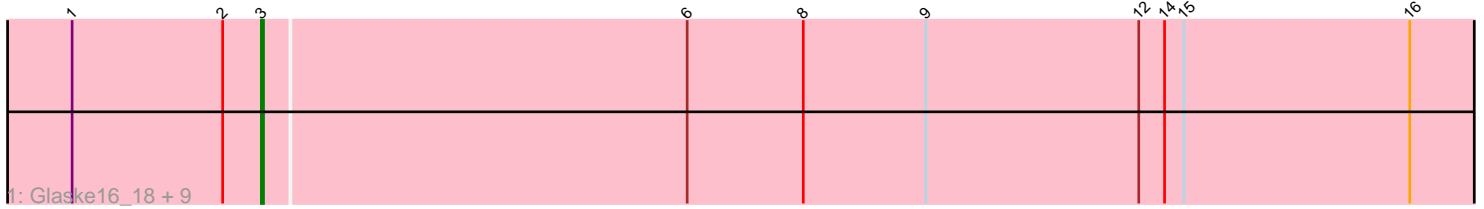


Pham 196865



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 196865 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196865 has 19 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Glaske16\_18, LilhomieP\_16, Bricole\_17, IPhane7\_17, Bongo\_17, Diminimus\_18, TyDawg\_17, Auspice\_17, SlimJimmy\_16, Dulcita\_18
- Track 2 : PegLeg\_17
- Track 3 : Reindeer\_15
- Track 4 : Skinny\_18
- Track 5 : MrMagoo\_21, Estes\_22, GardenSalsa\_21
- Track 6 : GenevaB15\_21, Aziz\_21
- Track 7 : Nanosmite\_21

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

The start number called the most often in the published annotations is 3, it was called in 17 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice\_17, Aziz\_21, Bongo\_17, Bricole\_17, Diminimus\_18, Dulcita\_18, Estes\_22, GardenSalsa\_21, GenevaB15\_21, Glaske16\_18, IPhane7\_17, LilhomieP\_16, MrMagoo\_21, Nanosmite\_21, Skinny\_18, SlimJimmy\_16, TyDawg\_17,

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

- PegLeg\_17, Reindeer\_15,

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

- 

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

Start 2:

- Found in 13 of 19 ( 68.4% ) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 15.4% of time when present
- Phage (with cluster) where this start called: PegLeg\_17 (M1), Reindeer\_15 (M1),

Start 3:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 19
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Auspice\_17 (M1), Aziz\_21 (M2), Bongo\_17 (M1), Bricole\_17 (M1), Diminimus\_18 (M1), Dulcita\_18 (M1), Estes\_22 (M2), GardenSalsa\_21 (M2), GenevaB15\_21 (M2), Glaske16\_18 (M1), IPhane7\_17 (M1), LilhomieP\_16 (M1), MrMagoo\_21 (M2), Nanosmite\_21 (M3), Skinny\_18 (M1), SlimJimmy\_16 (M1), TyDawg\_17 (M1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: M1, M3, M2,

Info for manual annotations of cluster M1:

- Start number 2 was manually annotated 2 times for cluster M1.
- Start number 3 was manually annotated 11 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 3 was manually annotated 5 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 3 was manually annotated 1 time for cluster M3.

### **Gene Information:**

Gene: Auspice\_17 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for Auspice\_17:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 17 MA's), (6, 9288), (8, 9342), (9, 9399), (12, 9498), (14, 9510), (15, 9519), (16, 9624),

Gene: Aziz\_21 Start: 9693, Stop: 10367, Start Num: 3

Candidate Starts for Aziz\_21:

(Start: 3 @9693 has 17 MA's), (7, 9870), (9, 9960), (11, 10023), (13, 10068),

Gene: Bongo\_17 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for Bongo\_17:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 17 MA's), (6, 9288), (8, 9342), (9, 9399), (12, 9498), (14, 9510), (15, 9519), (16, 9624),

Gene: Bricole\_17 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Bricole\_17:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 17 MA's), (6, 9287), (8, 9341), (9, 9398), (12, 9497), (14, 9509), (15, 9518), (16, 9623),

Gene: Diminimus\_18 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Diminimus\_18:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 17 MA's), (6, 9287), (8, 9341), (9, 9398), (12, 9497), (14, 9509), (15, 9518), (16, 9623),

Gene: Dulcita\_18 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Dulcita\_18:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 17 MA's), (6, 9287), (8, 9341), (9, 9398), (12, 9497), (14, 9509), (15, 9518), (16, 9623),

Gene: Estes\_22 Start: 9832, Stop: 10506, Start Num: 3

Candidate Starts for Estes\_22:

(Start: 3 @9832 has 17 MA's), (7, 10009), (9, 10099), (13, 10207),

Gene: GardenSalsa\_21 Start: 9666, Stop: 10340, Start Num: 3

Candidate Starts for GardenSalsa\_21:

(Start: 3 @9666 has 17 MA's), (7, 9843), (9, 9933), (13, 10041),

Gene: GenevaB15\_21 Start: 9693, Stop: 10367, Start Num: 3

Candidate Starts for GenevaB15\_21:

(Start: 3 @9693 has 17 MA's), (7, 9870), (9, 9960), (11, 10023), (13, 10068),

Gene: Glaske16\_18 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for Glaske16\_18:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 17 MA's), (6, 9287), (8, 9341), (9, 9398), (12, 9497), (14, 9509), (15, 9518), (16, 9623),

Gene: IPHane7\_17 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for IPHane7\_17:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 17 MA's), (6, 9288), (8, 9342), (9, 9399), (12, 9498), (14, 9510), (15, 9519), (16, 9624),

Gene: LilhomieP\_16 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for LilhomieP\_16:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 17 MA's), (6, 9288), (8, 9342), (9, 9399), (12, 9498), (14, 9510), (15, 9519), (16, 9624),

Gene: MrMagoo\_21 Start: 9666, Stop: 10340, Start Num: 3

Candidate Starts for MrMagoo\_21:

(Start: 3 @9666 has 17 MA's), (7, 9843), (9, 9933), (13, 10041),

Gene: Nanosmite\_21 Start: 9886, Stop: 10557, Start Num: 3

Candidate Starts for Nanosmite\_21:

(Start: 3 @9886 has 17 MA's), (4, 9913), (6, 10039), (7, 10060), (8, 10093), (9, 10150), (10, 10201),

Gene: PegLeg\_17 Start: 9074, Stop: 9808, Start Num: 2

Candidate Starts for PegLeg\_17:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 17 MA's), (6, 9287), (8, 9341), (9, 9398), (12, 9497), (14, 9509), (15, 9518), (16, 9623),

Gene: Reindeer\_15 Start: 8937, Stop: 9662, Start Num: 2

Candidate Starts for Reindeer\_15:

(1, 8868), (Start: 2 @8937 has 2 MA's), (Start: 3 @8955 has 17 MA's), (5, 9138), (6, 9141), (7, 9162), (8, 9195), (9, 9252), (12, 9351), (14, 9363), (16, 9477),

Gene: Skinny\_18 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for Skinny\_18:

(Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 17 MA's), (6, 9288), (8, 9342), (9, 9399), (12, 9498), (14, 9510), (15, 9519), (16, 9624),

Gene: SlimJimmy\_16 Start: 9092, Stop: 9808, Start Num: 3

Candidate Starts for SlimJimmy\_16:

(1, 9005), (Start: 2 @9074 has 2 MA's), (Start: 3 @9092 has 17 MA's), (6, 9287), (8, 9341), (9, 9398), (12, 9497), (14, 9509), (15, 9518), (16, 9623),

Gene: TyDawg\_17 Start: 9093, Stop: 9809, Start Num: 3

Candidate Starts for TyDawg\_17:

(1, 9006), (Start: 2 @9075 has 2 MA's), (Start: 3 @9093 has 17 MA's), (6, 9288), (8, 9342), (9, 9399), (12, 9498), (14, 9510), (15, 9519), (16, 9624),