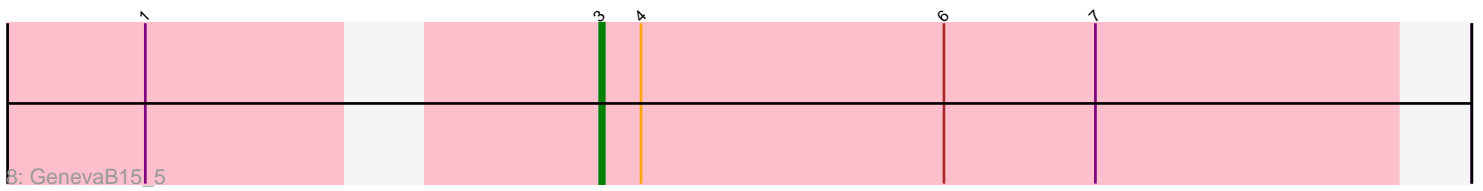
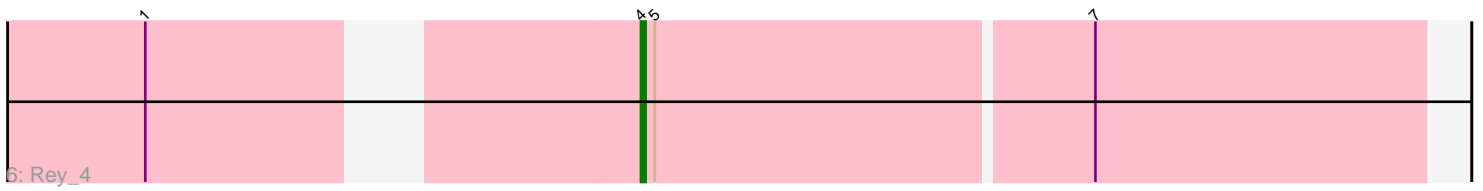
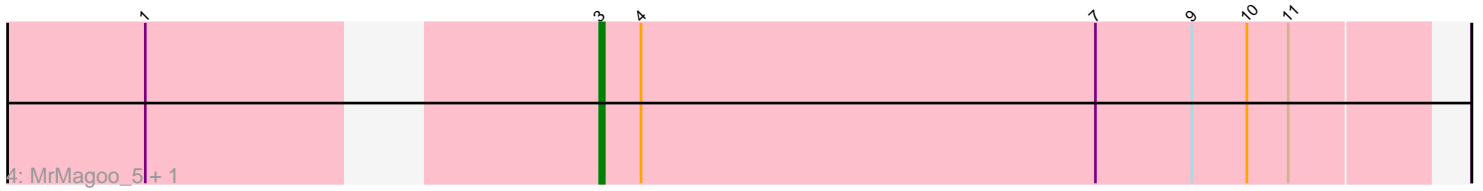
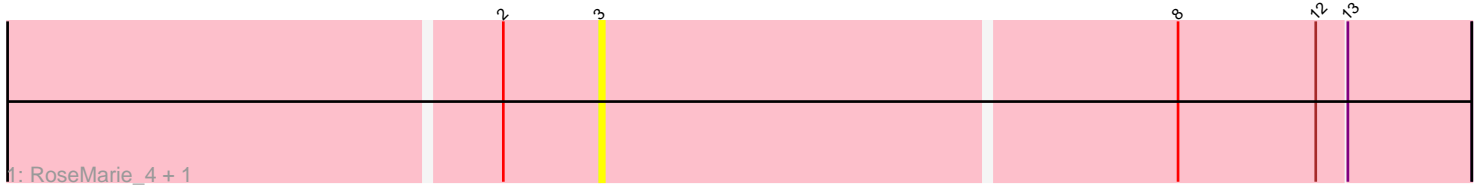


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 224886 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224886 has 22 members, 4 are drafts.

Phages represented in each track:

- Track 1 : RoseMarie\_4, KleverKiS\_4
- Track 2 : Auspice\_4, Izel\_4, Diminimus\_5, TyDawg\_4, Dulcita\_5, PegLeg\_4, Bongo\_4, Bricole\_4, LilhomieP\_4, SlimJimmy\_4, Glaske16\_5, Skinny\_5, IPhane7\_4
- Track 3 : FreakyGoo\_4
- Track 4 : MrMagoo\_5, GardenSalsa\_5
- Track 5 : Aziz\_5
- Track 6 : Rey\_4
- Track 7 : Estes\_5
- Track 8 : GenevaB15\_5

### ***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 15 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Auspice\_4, Bongo\_4, Bricole\_4, Diminimus\_5, Dulcita\_5, GardenSalsa\_5, GenevaB15\_5, Glaske16\_5, IPhane7\_4, Izel\_4, KleverKiS\_4, LilhomieP\_4, MrMagoo\_5, PegLeg\_4, RoseMarie\_4, Skinny\_5, SlimJimmy\_4, TyDawg\_4,

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

- Aziz\_5, Estes\_5, FreakyGoo\_4,

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

- Rey\_4,

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

Start 2:

- Found in 16 of 22 ( 72.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 6.2% of time when present
- Phage (with cluster) where this start called: FreakyGoo\_4 (M1),

#### Start 3:

- Found in 21 of 22 ( 95.5% ) of genes in pham
- Manual Annotations of this start: 15 of 18
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Auspice\_4 (M1), Bongo\_4 (M1), Bricole\_4 (M1), Diminimus\_5 (M1), Dulcita\_5 (M1), GardenSalsa\_5 (M2), GenevaB15\_5 (M2), Glaske16\_5 (M1), IPhone7\_4 (M1), Izel\_4 (M1), KleverKiS\_4 (M1), LilhomieP\_4 (M1), MrMagoo\_5 (M2), PegLeg\_4 (M1), RoseMarie\_4 (M), Skinny\_5 (M1), SlimJimmy\_4 (M1), TyDawg\_4 (M1),

#### Start 4:

- Found in 6 of 22 ( 27.3% ) of genes in pham
- Manual Annotations of this start: 3 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Aziz\_5 (M2), Estes\_5 (M2), Rey\_4 (M2),

#### Summary by clusters:

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

#### Info for manual annotations of cluster M1:

- Start number 3 was manually annotated 12 times for cluster M1.

#### Info for manual annotations of cluster M2:

- Start number 3 was manually annotated 3 times for cluster M2.
- Start number 4 was manually annotated 3 times for cluster M2.

#### **Gene Information:**

Gene: Auspice\_4 Start: 2136, Stop: 1951, Start Num: 3

Candidate Starts for Auspice\_4:

(2, 2157), (Start: 3 @2136 has 15 MA's), (8, 2013), (12, 1983), (13, 1977),

Gene: Aziz\_5 Start: 2191, Stop: 2027, Start Num: 4

Candidate Starts for Aziz\_5:

(1, 2281), (Start: 3 @2200 has 15 MA's), (Start: 4 @2191 has 3 MA's), (6, 2125), (7, 2092),

Gene: Bongo\_4 Start: 2136, Stop: 1951, Start Num: 3

Candidate Starts for Bongo\_4:

(2, 2157), (Start: 3 @2136 has 15 MA's), (8, 2013), (12, 1983), (13, 1977),

Gene: Bricole\_4 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for Bricole\_4:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: Diminimus\_5 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for Diminimus\_5:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: Dulcita\_5 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for Dulcita\_5:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: Estes\_5 Start: 2199, Stop: 2038, Start Num: 4

Candidate Starts for Estes\_5:

(1, 2289), (Start: 3 @2208 has 15 MA's), (Start: 4 @2199 has 3 MA's), (7, 2103),

Gene: FreakyGoo\_4 Start: 2157, Stop: 1951, Start Num: 2

Candidate Starts for FreakyGoo\_4:

(2, 2157), (Start: 3 @2136 has 15 MA's), (8, 2013), (12, 1983), (13, 1977),

Gene: GardenSalsa\_5 Start: 2221, Stop: 2042, Start Num: 3

Candidate Starts for GardenSalsa\_5:

(1, 2302), (Start: 3 @2221 has 15 MA's), (Start: 4 @2212 has 3 MA's), (7, 2113), (9, 2092), (10, 2080), (11, 2071),

Gene: GenevaB15\_5 Start: 2200, Stop: 2027, Start Num: 3

Candidate Starts for GenevaB15\_5:

(1, 2281), (Start: 3 @2200 has 15 MA's), (Start: 4 @2191 has 3 MA's), (6, 2125), (7, 2092),

Gene: Glaske16\_5 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for Glaske16\_5:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: IPHane7\_4 Start: 2136, Stop: 1951, Start Num: 3

Candidate Starts for IPHane7\_4:

(2, 2157), (Start: 3 @2136 has 15 MA's), (8, 2013), (12, 1983), (13, 1977),

Gene: Izel\_4 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for Izel\_4:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: KleverKiS\_4 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for KleverKiS\_4:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: LilhomieP\_4 Start: 2136, Stop: 1951, Start Num: 3

Candidate Starts for LilhomieP\_4:

(2, 2157), (Start: 3 @2136 has 15 MA's), (8, 2013), (12, 1983), (13, 1977),

Gene: MrMagoo\_5 Start: 2221, Stop: 2042, Start Num: 3

Candidate Starts for MrMagoo\_5:

(1, 2302), (Start: 3 @2221 has 15 MA's), (Start: 4 @2212 has 3 MA's), (7, 2113), (9, 2092), (10, 2080), (11, 2071),

Gene: PegLeg\_4 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for PegLeg\_4:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: Rey\_4 Start: 2206, Stop: 2039, Start Num: 4

Candidate Starts for Rey\_4:

(1, 2287), (Start: 4 @2206 has 3 MA's), (5, 2203), (7, 2110),

Gene: RoseMarie\_4 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for RoseMarie\_4:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: Skinny\_5 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for Skinny\_5:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: SlimJimmy\_4 Start: 2135, Stop: 1950, Start Num: 3

Candidate Starts for SlimJimmy\_4:

(2, 2156), (Start: 3 @2135 has 15 MA's), (8, 2012), (12, 1982), (13, 1976),

Gene: TyDawg\_4 Start: 2136, Stop: 1951, Start Num: 3

Candidate Starts for TyDawg\_4:

(2, 2157), (Start: 3 @2136 has 15 MA's), (8, 2013), (12, 1983), (13, 1977),