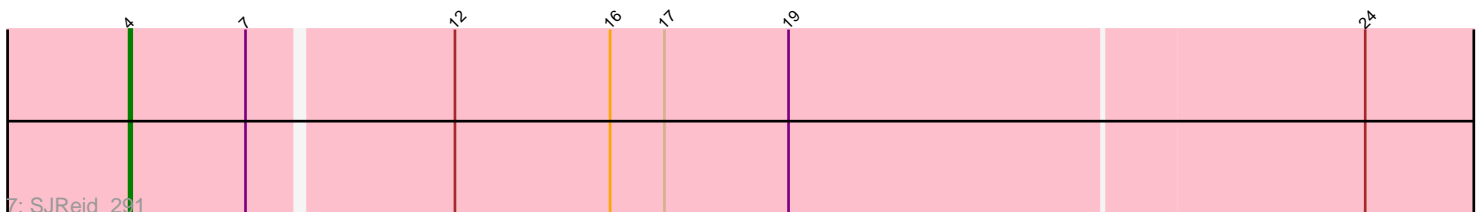
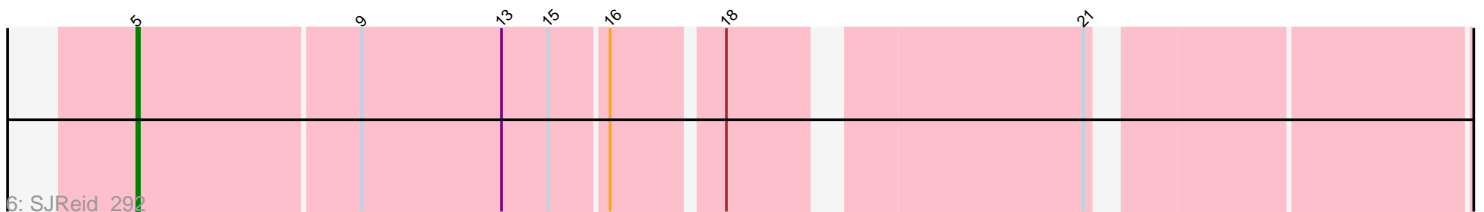
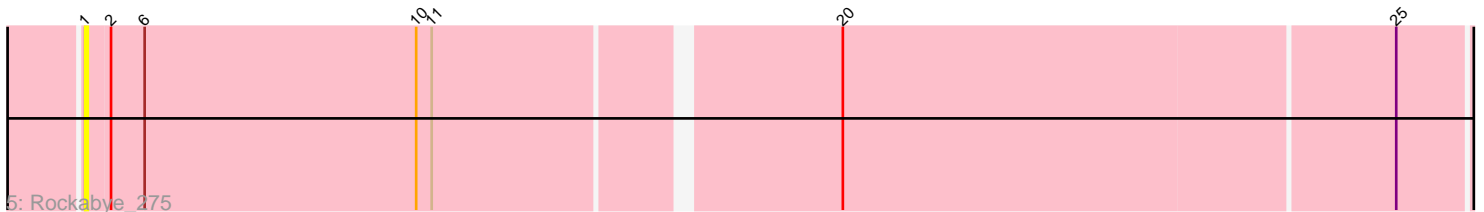
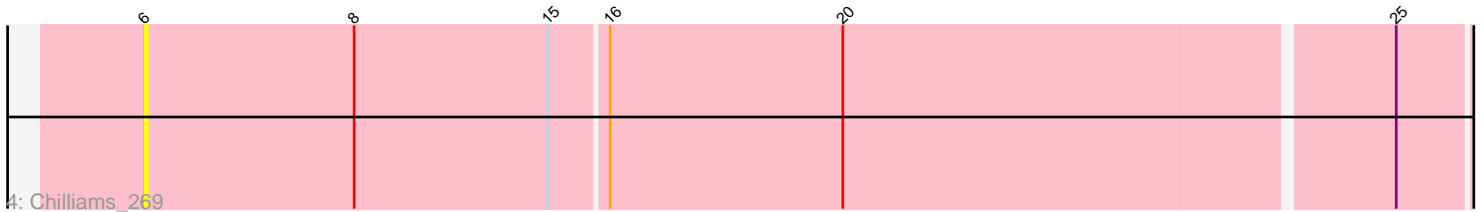
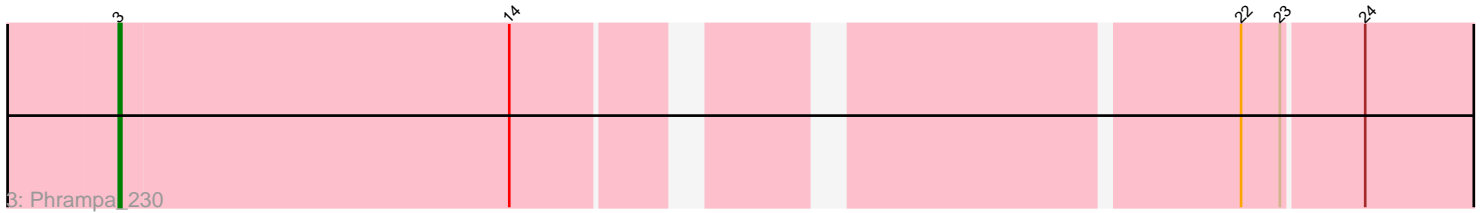
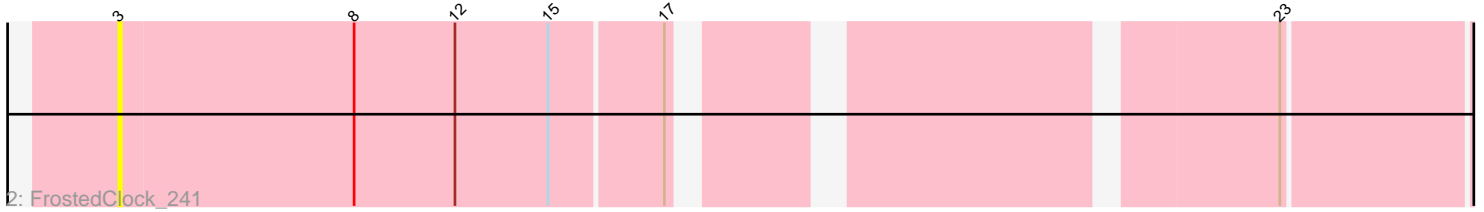
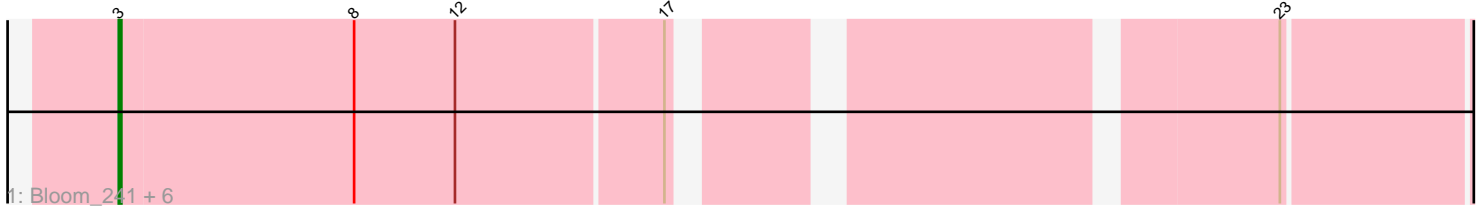


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 305418 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305418 has 13 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Bloom\_241, Racecar\_239, Patbob\_235, Mimi\_237, Talia1610\_239, GoldenEssence\_226, FloraSnap32\_234
- Track 2 : FrostedClock\_241
- Track 3 : Phrampa\_230
- Track 4 : Chilliams\_269
- Track 5 : Rockabye\_275
- Track 6 : SJReid\_292
- Track 7 : SJReid\_291

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

Genes that call this "Most Annotated" start:

- Bloom\_241, FloraSnap32\_234, FrostedClock\_241, GoldenEssence\_226, Mimi\_237, Patbob\_235, Phrampa\_230, Racecar\_239, Talia1610\_239,

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

- 

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

- Chilliams\_269, Rockabye\_275, SJReid\_291, SJReid\_292,

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

Start 1:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rockabye\_275 (FC),

Start 3:

- Found in 9 of 13 ( 69.2% ) of genes in pham

- Manual Annotations of this start: 6 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom\_241 (FC), FloraSnap32\_234 (FC), FrostedClock\_241 (FC), GoldenEssence\_226 (FC), Mimi\_237 (FC), Patbob\_235 (FC), Phrampa\_230 (FC), Racecar\_239 (FC), Talia1610\_239 (FC),

Start 4:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SJReid\_291 (FC),

Start 5:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SJReid\_292 (FC),

Start 6:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Chilliams\_269 (FC),

### **Summary by clusters:**

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

- Start number 3 was manually annotated 6 times for cluster FC.
- Start number 4 was manually annotated 1 time for cluster FC.
- Start number 5 was manually annotated 1 time for cluster FC.

### **Gene Information:**

Gene: Bloom\_241 Start: 155102, Stop: 155584, Start Num: 3

Candidate Starts for Bloom\_241:

(Start: 3 @155102 has 6 MA's), (8, 155192), (12, 155231), (17, 155309), (23, 155507),

Gene: Chilliams\_269 Start: 162893, Stop: 163402, Start Num: 6

Candidate Starts for Chilliams\_269:

(6, 162893), (8, 162974), (15, 163049), (16, 163070), (20, 163160), (25, 163367),

Gene: FloraSnap32\_234 Start: 153261, Stop: 153743, Start Num: 3

Candidate Starts for FloraSnap32\_234:

(Start: 3 @153261 has 6 MA's), (8, 153351), (12, 153390), (17, 153468), (23, 153666),

Gene: FrostedClock\_241 Start: 155246, Stop: 155728, Start Num: 3

Candidate Starts for FrostedClock\_241:

(Start: 3 @155246 has 6 MA's), (8, 155336), (12, 155375), (15, 155411), (17, 155453), (23, 155651),

Gene: GoldenEssence\_226 Start: 149079, Stop: 149561, Start Num: 3  
Candidate Starts for GoldenEssence\_226:  
(Start: 3 @149079 has 6 MA's), (8, 149169), (12, 149208), (17, 149286), (23, 149484),

Gene: Mimi\_237 Start: 154477, Stop: 154959, Start Num: 3  
Candidate Starts for Mimi\_237:  
(Start: 3 @154477 has 6 MA's), (8, 154567), (12, 154606), (17, 154684), (23, 154882),

Gene: Patbob\_235 Start: 154874, Stop: 155356, Start Num: 3  
Candidate Starts for Patbob\_235:  
(Start: 3 @154874 has 6 MA's), (8, 154964), (12, 155003), (17, 155081), (23, 155279),

Gene: Phrampa\_230 Start: 155986, Stop: 156474, Start Num: 3  
Candidate Starts for Phrampa\_230:  
(Start: 3 @155986 has 6 MA's), (14, 156136), (22, 156379), (23, 156394), (24, 156424),

Gene: Racecar\_239 Start: 154856, Stop: 155338, Start Num: 3  
Candidate Starts for Racecar\_239:  
(Start: 3 @154856 has 6 MA's), (8, 154946), (12, 154985), (17, 155063), (23, 155261),

Gene: Rockabye\_275 Start: 162884, Stop: 163408, Start Num: 1  
Candidate Starts for Rockabye\_275:  
(1, 162884), (2, 162893), (6, 162905), (10, 163010), (11, 163016), (20, 163163), (25, 163373),

Gene: SJReid\_292 Start: 165814, Stop: 166293, Start Num: 5  
Candidate Starts for SJReid\_292:  
(Start: 5 @165814 has 1 MA's), (9, 165898), (13, 165952), (15, 165970), (16, 165991), (18, 166030),  
(21, 166153),

Gene: SJReid\_291 Start: 165299, Stop: 165817, Start Num: 4  
Candidate Starts for SJReid\_291:  
(Start: 4 @165299 has 1 MA's), (7, 165344), (12, 165419), (16, 165479), (17, 165500), (19, 165548),  
(24, 165767),

Gene: Talia1610\_239 Start: 154886, Stop: 155368, Start Num: 3  
Candidate Starts for Talia1610\_239:  
(Start: 3 @154886 has 6 MA's), (8, 154976), (12, 155015), (17, 155093), (23, 155291),