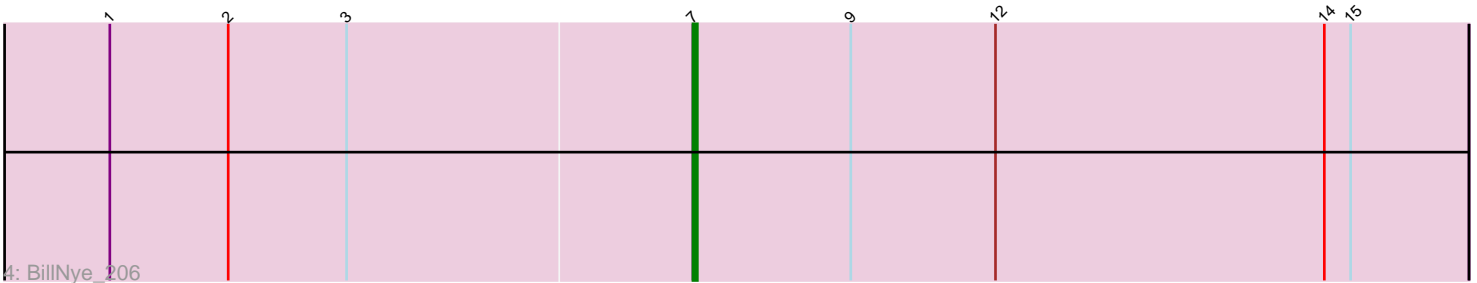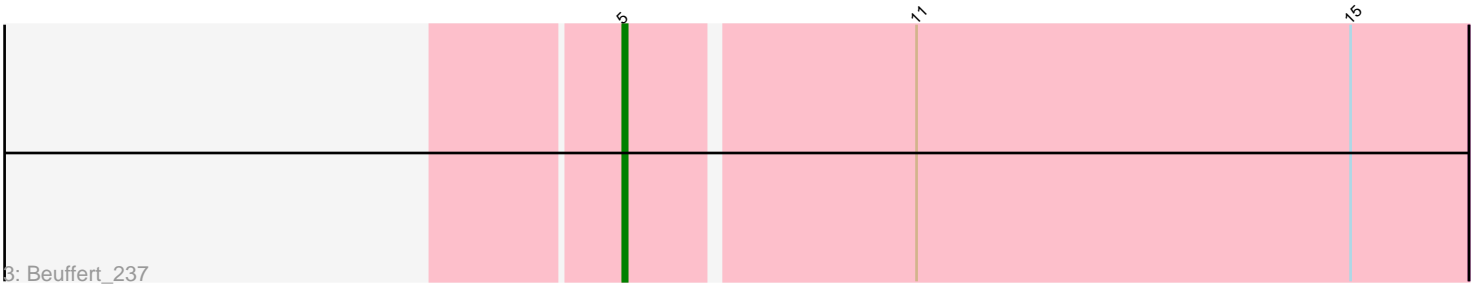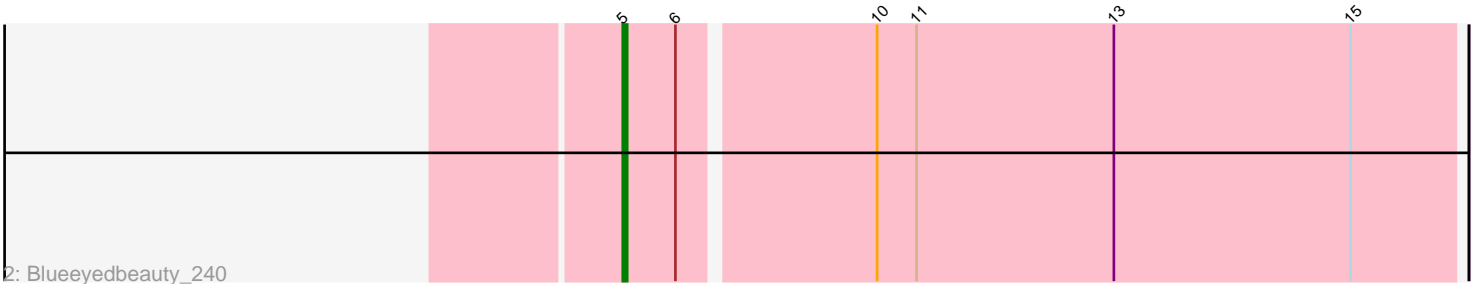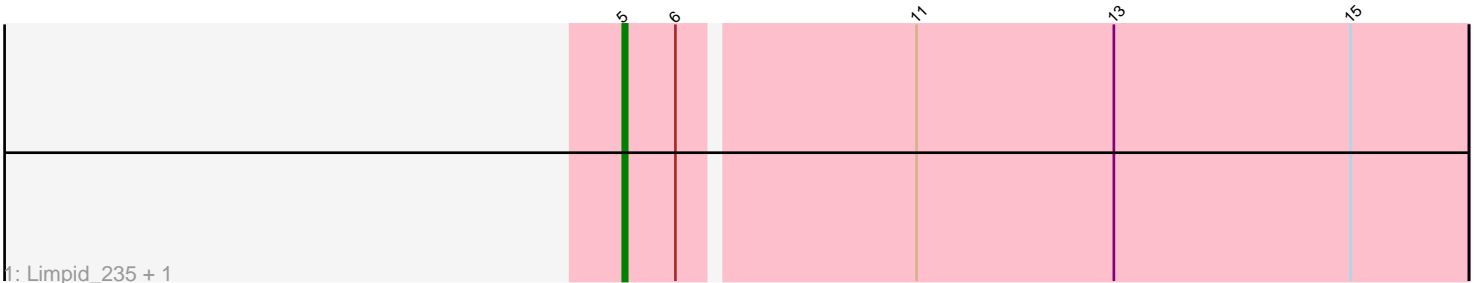# Pham 107159

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 107159 Report

This analysis was run 04/05/24 on database version 557.

Pham number 107159 has 6 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Limpid_235, Annadreamy_228
• Track 2 : Blueeyedbeauty_240
• Track 3 : Beuffert_237
• Track 4 : BillNye_206
• Track 5 : Circinus_206

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

The start number called the most often in the published annotations is 5, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_228, Beuffert_237, Blueeyedbeauty_240, Limpid_235,

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

Genes that do not have the "Most Annotated" start:
• BillNye_206, Circinus_206,

**Summary by start number:**

Start 5:
• Found in 4 of 6 ( 66.7% ) of genes in pham
• Manual Annotations of this start: 4 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_228 (BK1), Beuffert_237 (BK1), Blueeyedbeauty_240 (BK1), Limpid_235 (BK1),

Start 7:
• Found in 2 of 6 ( 33.3% ) of genes in pham
• Manual Annotations of this start: 2 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_206 (BK2), Circinus_206 (BK2),

**Summary by clusters:**

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:
•Start number 5 was manually annotated 4 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 7 was manually annotated 2 times for cluster BK2.

*Gene Information:*
Gene: Annadreamy_228 Start: 111592, Stop: 111780, Start Num: 5
Candidate Starts for Annadreamy_228:
(Start: 5 @111592 has 4 MA's), (6, 111604), (11, 111655), (13, 111700), (15, 111754),

Gene: Beuffert_237 Start: 115833, Stop: 116021, Start Num: 5
Candidate Starts for Beuffert_237:
(Start: 5 @115833 has 4 MA's), (11, 115896), (15, 115995),

Gene: BillNye_206 Start: 108671, Stop: 108847, Start Num: 7
Candidate Starts for BillNye_206:
(1, 108539), (2, 108566), (3, 108593), (Start: 7 @108671 has 2 MA's), (9, 108707), (12, 108740), (14, 108815), (15, 108821),

Gene: Blueeyedbeauty_240 Start: 115911, Stop: 116096, Start Num: 5
Candidate Starts for Blueeyedbeauty_240:
(Start: 5 @115911 has 4 MA's), (6, 115923), (10, 115965), (11, 115974), (13, 116019), (15, 116073),

Gene: Circinus_206 Start: 108269, Stop: 108442, Start Num: 7
Candidate Starts for Circinus_206:
(1, 108140), (2, 108167), (3, 108194), (4, 108221), (Start: 7 @108269 has 2 MA's), (8, 108275), (9, 108305), (12, 108338),

Gene: Limpid_235 Start: 116905, Stop: 117093, Start Num: 5
Candidate Starts for Limpid_235:
(Start: 5 @116905 has 4 MA's), (6, 116917), (11, 116968), (13, 117013), (15, 117067),