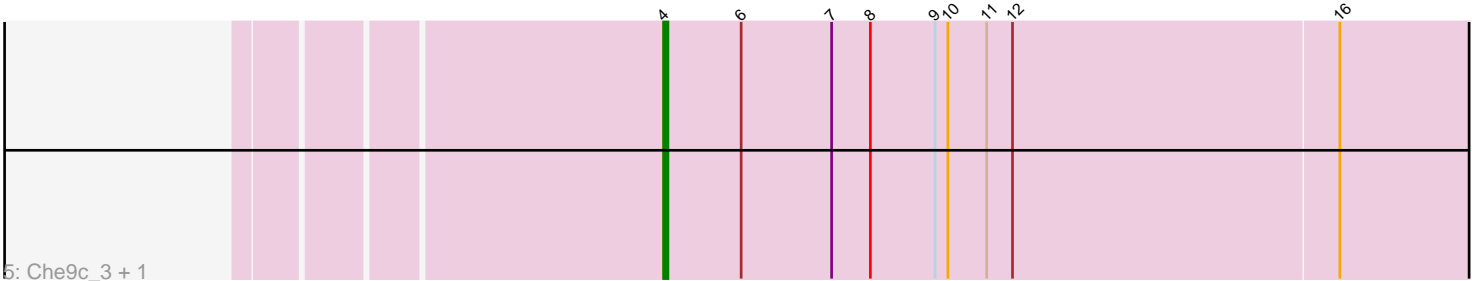
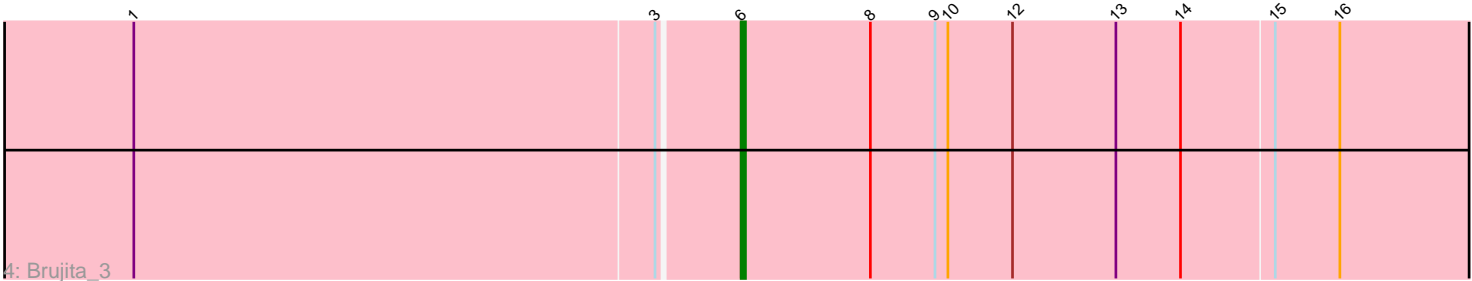
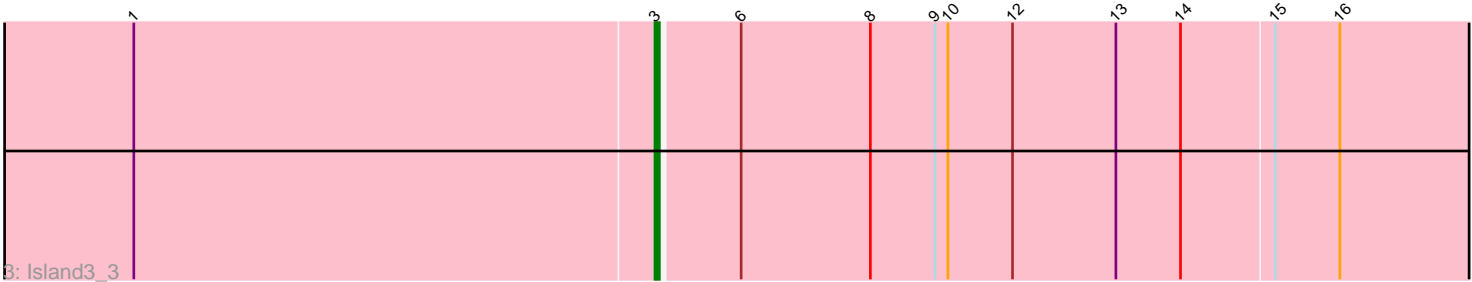
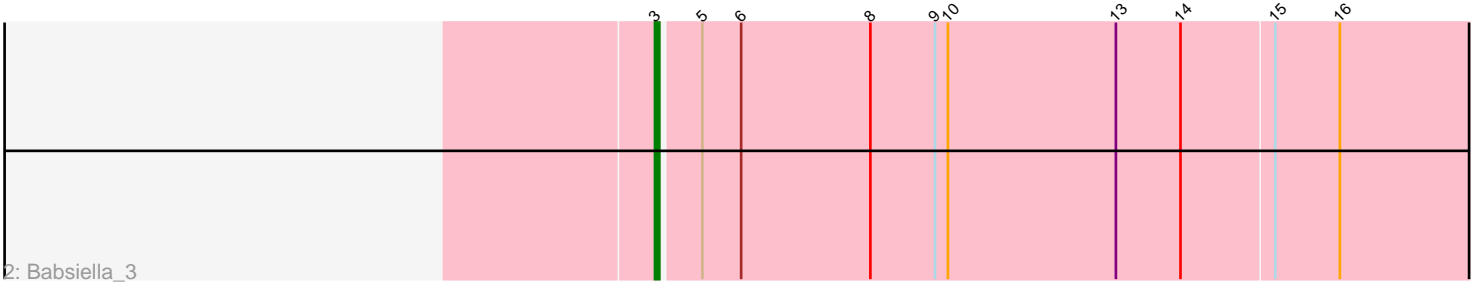
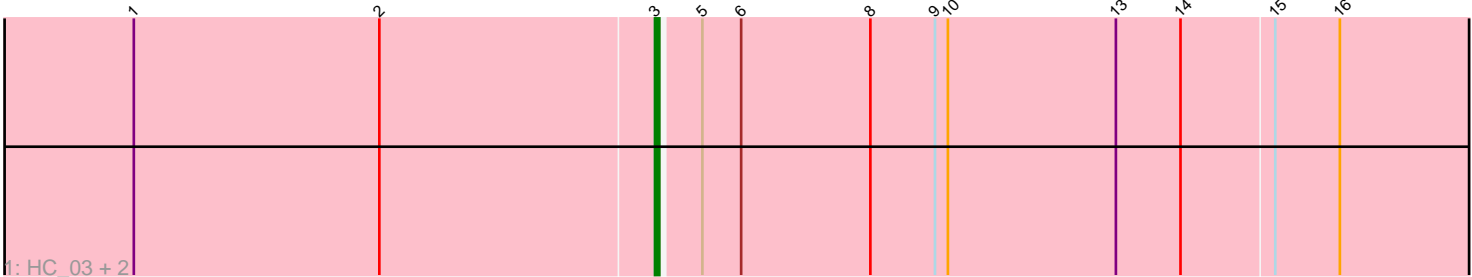


Pham 6315



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 6315 Report

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

Pham number 6315 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : HC\_03, QueenHazel\_3, Xula\_3
- Track 2 : Babsiella\_3
- Track 3 : Island3\_3
- Track 4 : Brujita\_3
- Track 5 : Che9c\_3, Sbash\_3

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

Genes that call this "Most Annotated" start:

- Babsiella\_3, HC\_03, Island3\_3, QueenHazel\_3, Xula\_3,

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

- Brujita\_3,

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

- Che9c\_3, Sbash\_3,

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

Start 3:

- Found in 6 of 8 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Babsiella\_3 (I1), HC\_03 (I1), Island3\_3 (I1), QueenHazel\_3 (I1), Xula\_3 (I1),

Start 4:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che9c\_3 (I2), Sbash\_3 (I2),

Start 6:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Brujita\_3 (I1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: I1, I2,

Info for manual annotations of cluster I1:

- Start number 3 was manually annotated 5 times for cluster I1.
- Start number 6 was manually annotated 1 time for cluster I1.

Info for manual annotations of cluster I2:

- Start number 4 was manually annotated 2 times for cluster I2.

### **Gene Information:**

Gene: Babsiella\_3 Start: 2103, Stop: 2291, Start Num: 3

Candidate Starts for Babsiella\_3:

(Start: 3 @2103 has 5 MA's), (5, 2112), (Start: 6 @2121 has 1 MA's), (8, 2151), (9, 2166), (10, 2169), (13, 2208), (14, 2223), (15, 2244), (16, 2259),

Gene: Brujita\_3 Start: 2122, Stop: 2292, Start Num: 6

Candidate Starts for Brujita\_3:

(1, 1984), (Start: 3 @2104 has 5 MA's), (Start: 6 @2122 has 1 MA's), (8, 2152), (9, 2167), (10, 2170), (12, 2185), (13, 2209), (14, 2224), (15, 2245), (16, 2260),

Gene: Che9c\_3 Start: 2073, Stop: 2261, Start Num: 4

Candidate Starts for Che9c\_3:

(Start: 4 @2073 has 2 MA's), (Start: 6 @2091 has 1 MA's), (7, 2112), (8, 2121), (9, 2136), (10, 2139), (11, 2148), (12, 2154), (16, 2229),

Gene: HC\_03 Start: 2103, Stop: 2291, Start Num: 3

Candidate Starts for HC\_03:

(1, 1983), (2, 2040), (Start: 3 @2103 has 5 MA's), (5, 2112), (Start: 6 @2121 has 1 MA's), (8, 2151), (9, 2166), (10, 2169), (13, 2208), (14, 2223), (15, 2244), (16, 2259),

Gene: Island3\_3 Start: 2104, Stop: 2292, Start Num: 3

Candidate Starts for Island3\_3:

(1, 1984), (Start: 3 @2104 has 5 MA's), (Start: 6 @2122 has 1 MA's), (8, 2152), (9, 2167), (10, 2170), (12, 2185), (13, 2209), (14, 2224), (15, 2245), (16, 2260),

Gene: QueenHazel\_3 Start: 2103, Stop: 2291, Start Num: 3

Candidate Starts for QueenHazel\_3:

(1, 1983), (2, 2040), (Start: 3 @2103 has 5 MA's), (5, 2112), (Start: 6 @2121 has 1 MA's), (8, 2151), (9, 2166), (10, 2169), (13, 2208), (14, 2223), (15, 2244), (16, 2259),

Gene: Sbash\_3 Start: 2064, Stop: 2252, Start Num: 4

Candidate Starts for Sbash\_3:

(Start: 4 @2064 has 2 MA's), (Start: 6 @2082 has 1 MA's), (7, 2103), (8, 2112), (9, 2127), (10, 2130), (11, 2139), (12, 2145), (16, 2220),

Gene: Xula\_3 Start: 2103, Stop: 2291, Start Num: 3

Candidate Starts for Xula\_3:

(1, 1983), (2, 2040), (Start: 3 @2103 has 5 MA's), (5, 2112), (Start: 6 @2121 has 1 MA's), (8, 2151), (9, 2166), (10, 2169), (13, 2208), (14, 2223), (15, 2244), (16, 2259),