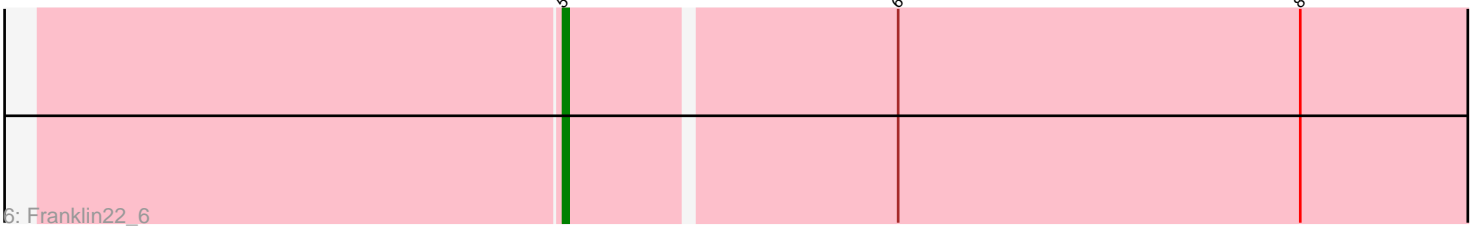
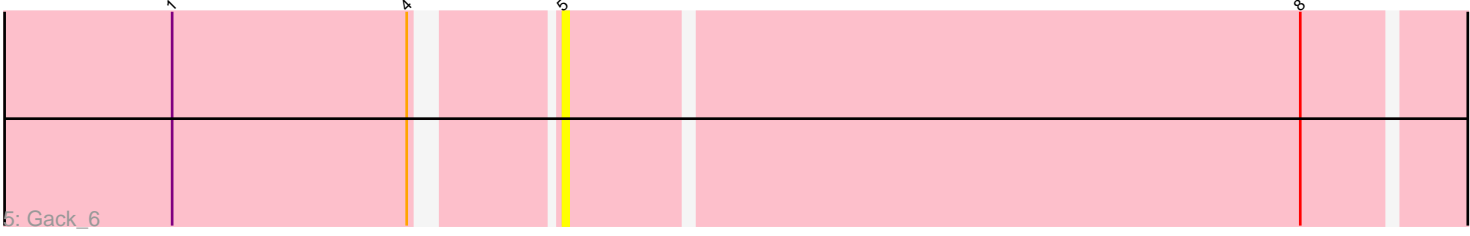
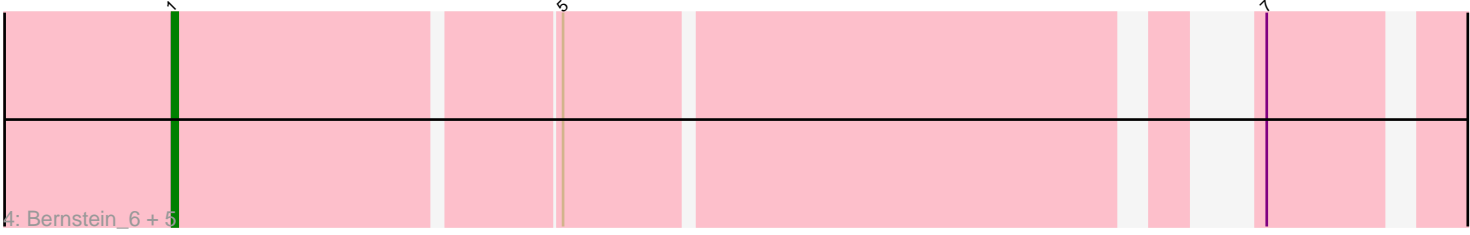
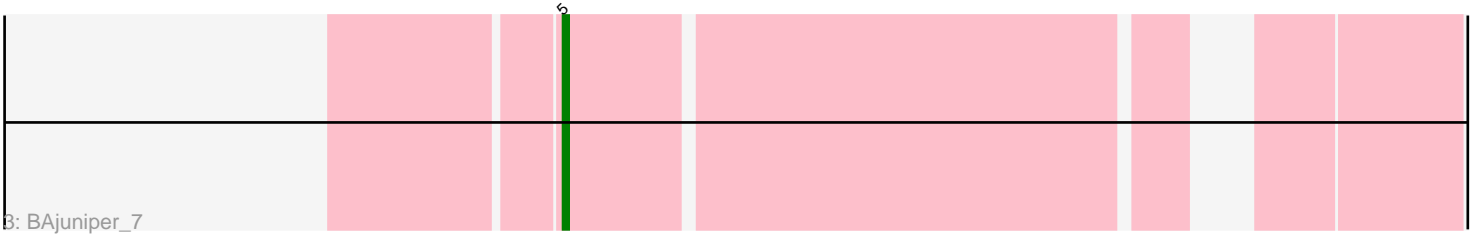
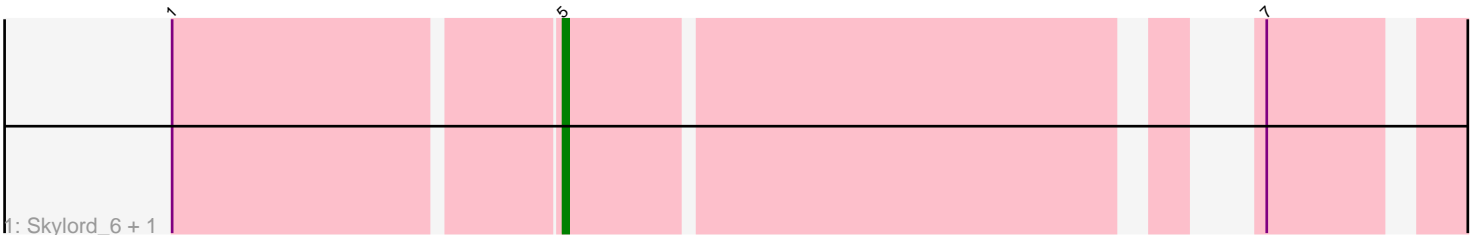


Pham 5638



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 5638 Report

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

Pham number 5638 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Skylord\_6, Clayda5\_6
- Track 2 : Eden\_6
- Track 3 : BAJuniper\_7
- Track 4 : Bernstein\_6, Coltrane\_6, Vitas\_6, Armstrong\_6, Rollins\_6, Brahms\_6
- Track 5 : Gack\_6
- Track 6 : Franklin22\_6

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Armstrong\_6, Bernstein\_6, Brahms\_6, Coltrane\_6, Rollins\_6, Vitas\_6,

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

- Clayda5\_6, Gack\_6, Skylord\_6,

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

- BAJuniper\_7, Eden\_6, Franklin22\_6,

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

Start 1:

- Found in 9 of 12 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 6 of 11
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Armstrong\_6 (EB), Bernstein\_6 (EB), Brahms\_6 (EB), Coltrane\_6 (EB), Rollins\_6 (EB), Vitas\_6 (EB),

Start 5:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 50.0% of time when present

- Phage (with cluster) where this start called: BAjuniper\_7 (EB), Clayda5\_6 (EB), Eden\_6 (EB), Franklin22\_6 (EB), Gack\_6 (EB), Skylord\_6 (EB),

### **Summary by clusters:**

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 1 was manually annotated 6 times for cluster EB.
- Start number 5 was manually annotated 5 times for cluster EB.

### **Gene Information:**

Gene: Armstrong\_6 Start: 6206, Stop: 6520, Start Num: 1

Candidate Starts for Armstrong\_6:

(Start: 1 @6206 has 6 MA's), (Start: 5 @6272 has 5 MA's), (7, 6377),

Gene: BAjuniper\_7 Start: 6450, Stop: 6695, Start Num: 5

Candidate Starts for BAjuniper\_7:

(Start: 5 @6450 has 5 MA's),

Gene: Bernstein\_6 Start: 6266, Stop: 6580, Start Num: 1

Candidate Starts for Bernstein\_6:

(Start: 1 @6266 has 6 MA's), (Start: 5 @6332 has 5 MA's), (7, 6437),

Gene: Brahms\_6 Start: 6206, Stop: 6520, Start Num: 1

Candidate Starts for Brahms\_6:

(Start: 1 @6206 has 6 MA's), (Start: 5 @6272 has 5 MA's), (7, 6377),

Gene: Clayda5\_6 Start: 6272, Stop: 6520, Start Num: 5

Candidate Starts for Clayda5\_6:

(Start: 1 @6206 has 6 MA's), (Start: 5 @6272 has 5 MA's), (7, 6377),

Gene: Coltrane\_6 Start: 6206, Stop: 6520, Start Num: 1

Candidate Starts for Coltrane\_6:

(Start: 1 @6206 has 6 MA's), (Start: 5 @6272 has 5 MA's), (7, 6377),

Gene: Eden\_6 Start: 6321, Stop: 6611, Start Num: 5

Candidate Starts for Eden\_6:

(2, 6276), (3, 6291), (Start: 5 @6321 has 5 MA's), (8, 6453),

Gene: Franklin22\_6 Start: 6327, Stop: 6593, Start Num: 5

Candidate Starts for Franklin22\_6:

(Start: 5 @6327 has 5 MA's), (6, 6384), (8, 6456),

Gene: Gack\_6 Start: 6376, Stop: 6663, Start Num: 5

Candidate Starts for Gack\_6:

(Start: 1 @6313 has 6 MA's), (4, 6355), (Start: 5 @6376 has 5 MA's), (8, 6505),

Gene: Rollins\_6 Start: 6266, Stop: 6580, Start Num: 1

Candidate Starts for Rollins\_6:

(Start: 1 @6266 has 6 MA's), (Start: 5 @6332 has 5 MA's), (7, 6437),

Gene: Skylord\_6 Start: 6272, Stop: 6520, Start Num: 5

Candidate Starts for Skylord\_6:

(Start: 1 @6206 has 6 MA's), (Start: 5 @6272 has 5 MA's), (7, 6377),

Gene: Vitas\_6 Start: 6206, Stop: 6520, Start Num: 1

Candidate Starts for Vitas\_6:

(Start: 1 @6206 has 6 MA's), (Start: 5 @6272 has 5 MA's), (7, 6377),