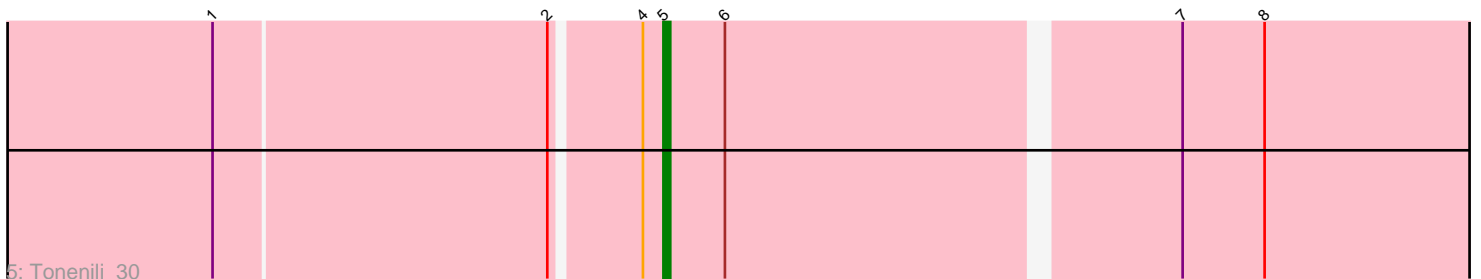
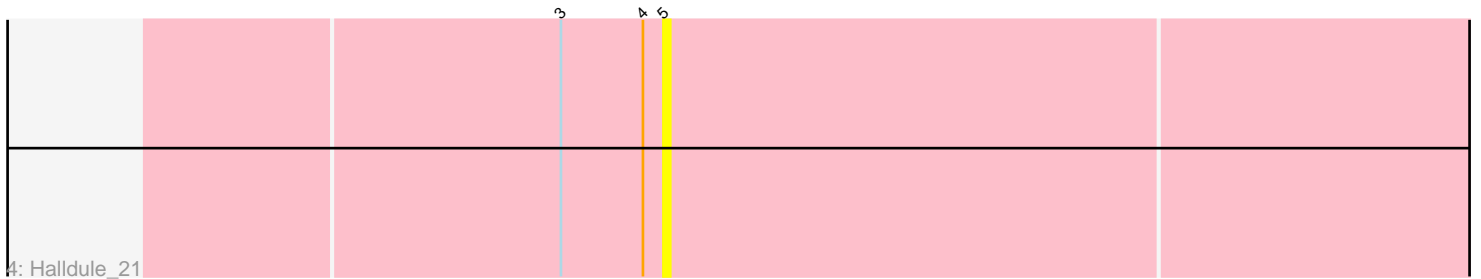
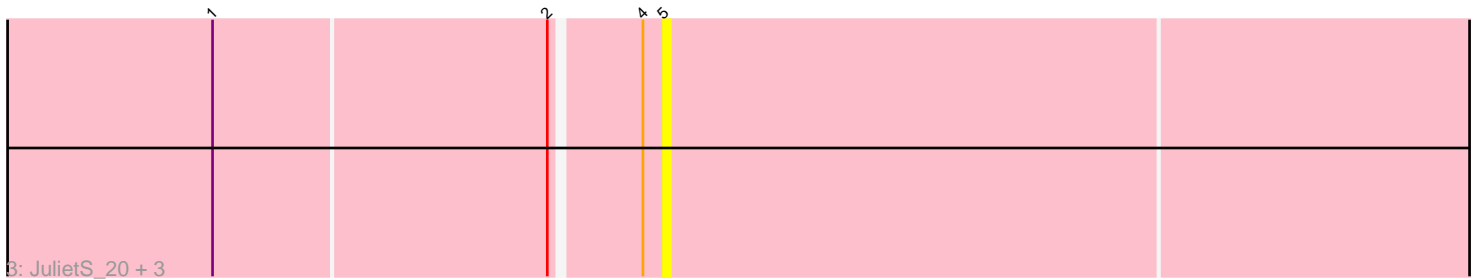
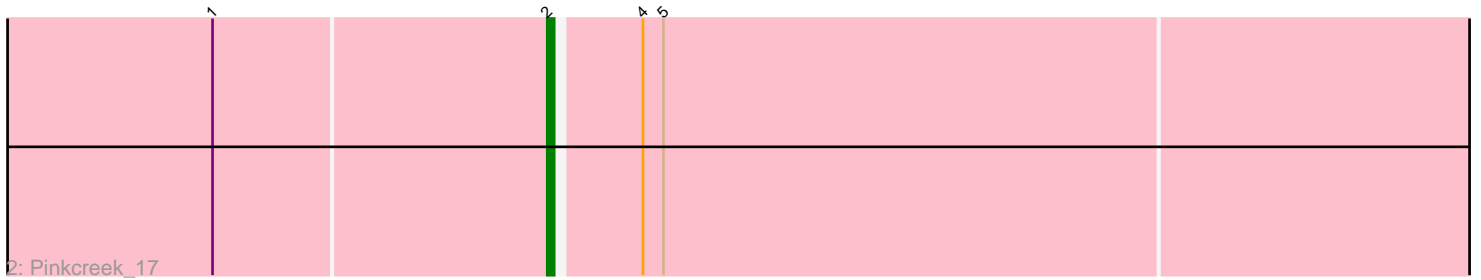
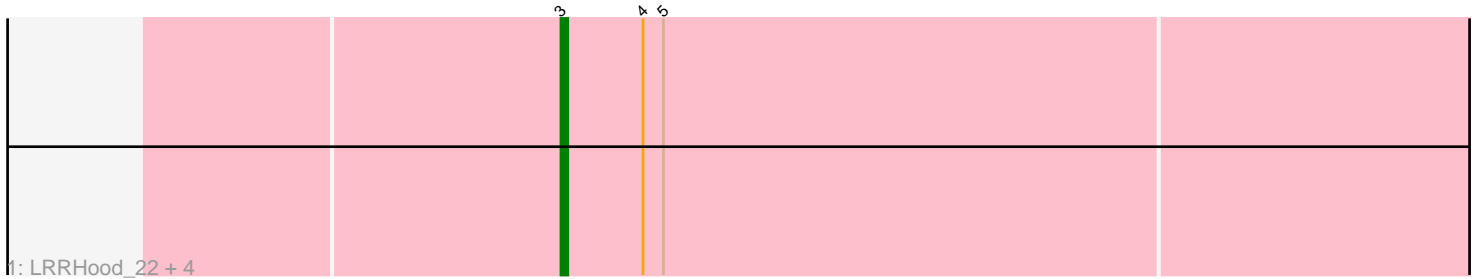


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 168690 Report

This analysis was run 07/09/24 on database version 566.

Pham number 168690 has 12 members, 5 are drafts.

Phages represented in each track:

- Track 1 : LRRHood\_22, Shaqnato\_21, Lukilu\_18, Astraea\_26, Grungle\_18
- Track 2 : Pinkcreek\_17
- Track 3 : JulietS\_20, Blackdragon\_20, Asterius\_23, Spec\_22
- Track 4 : Halldule\_21
- Track 5 : Tonenili\_30

### ***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 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Astraea\_26, Grungle\_18, LRRHood\_22, Lukilu\_18, Shaqnato\_21,

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

- Halldule\_21,

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

- Asterius\_23, Blackdragon\_20, JulietS\_20, Pinkcreek\_17, Spec\_22, Tonenili\_30,

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

Start 2:

- Found in 6 of 12 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Pinkcreek\_17 (C1),

Start 3:

- Found in 6 of 12 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Astraea\_26 (C1), Grungle\_18 (C1), LRRHood\_22 (C1), Lukilu\_18 (C1), Shaqnato\_21 (C1),

Start 5:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Asterius\_23 (C1), Blackdragon\_20 (C1), Halldule\_21 (C1), JulietS\_20 (C1), Spec\_22 (C1), Tonenili\_30 (C1),

**Summary by clusters:**

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 2 was manually annotated 1 time for cluster C1.
- Start number 3 was manually annotated 5 times for cluster C1.
- Start number 5 was manually annotated 1 time for cluster C1.

**Gene Information:**

Gene: Asterius\_23 Start: 8058, Stop: 8342, Start Num: 5

Candidate Starts for Asterius\_23:

(1, 7995), (Start: 2 @8043 has 1 MA's), (4, 8055), (Start: 5 @8058 has 1 MA's),

Gene: Astraea\_26 Start: 7926, Stop: 8225, Start Num: 3

Candidate Starts for Astraea\_26:

(Start: 3 @7926 has 5 MA's), (4, 7938), (Start: 5 @7941 has 1 MA's),

Gene: Blackdragon\_20 Start: 6822, Stop: 7106, Start Num: 5

Candidate Starts for Blackdragon\_20:

(1, 6759), (Start: 2 @6807 has 1 MA's), (4, 6819), (Start: 5 @6822 has 1 MA's),

Gene: Grungle\_18 Start: 5890, Stop: 6189, Start Num: 3

Candidate Starts for Grungle\_18:

(Start: 3 @5890 has 5 MA's), (4, 5902), (Start: 5 @5905 has 1 MA's),

Gene: Halldule\_21 Start: 6575, Stop: 6859, Start Num: 5

Candidate Starts for Halldule\_21:

(Start: 3 @6560 has 5 MA's), (4, 6572), (Start: 5 @6575 has 1 MA's),

Gene: JulietS\_20 Start: 6200, Stop: 6484, Start Num: 5

Candidate Starts for JulietS\_20:

(1, 6137), (Start: 2 @6185 has 1 MA's), (4, 6197), (Start: 5 @6200 has 1 MA's),

Gene: LRRHood\_22 Start: 8459, Stop: 8758, Start Num: 3

Candidate Starts for LRRHood\_22:

(Start: 3 @8459 has 5 MA's), (4, 8471), (Start: 5 @8474 has 1 MA's),

Gene: Lukilu\_18 Start: 6910, Stop: 7209, Start Num: 3

Candidate Starts for Lukilu\_18:

(Start: 3 @6910 has 5 MA's), (4, 6922), (Start: 5 @6925 has 1 MA's),

Gene: Pinkcreek\_17 Start: 6160, Stop: 6459, Start Num: 2

Candidate Starts for Pinkcreek\_17:

(1, 6112), (Start: 2 @6160 has 1 MA's), (4, 6172), (Start: 5 @6175 has 1 MA's),

Gene: Shaqnato\_21 Start: 6893, Stop: 7192, Start Num: 3

Candidate Starts for Shaqnato\_21:

(Start: 3 @6893 has 5 MA's), (4, 6905), (Start: 5 @6908 has 1 MA's),

Gene: Spec\_22 Start: 7254, Stop: 7538, Start Num: 5

Candidate Starts for Spec\_22:

(1, 7191), (Start: 2 @7239 has 1 MA's), (4, 7251), (Start: 5 @7254 has 1 MA's),

Gene: Tonenili\_30 Start: 9490, Stop: 9759, Start Num: 5

Candidate Starts for Tonenili\_30:

(1, 9427), (Start: 2 @9475 has 1 MA's), (4, 9487), (Start: 5 @9490 has 1 MA's), (6, 9499), (7, 9562),  
(8, 9574),