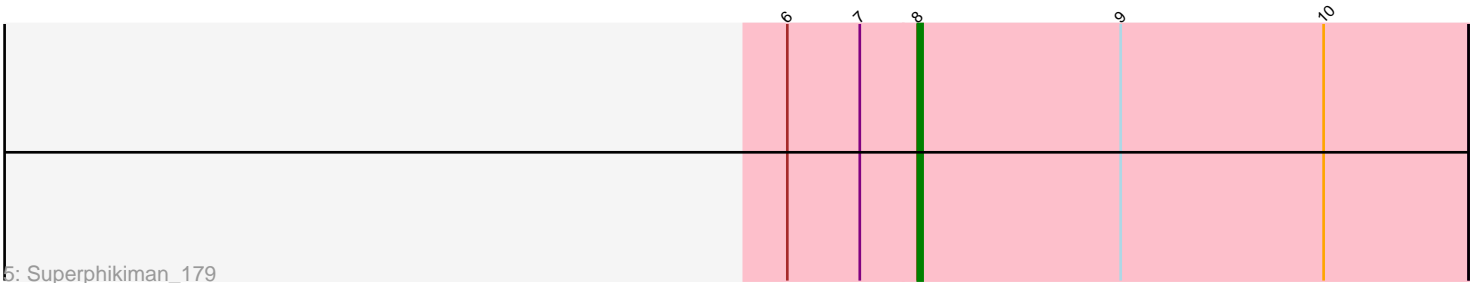
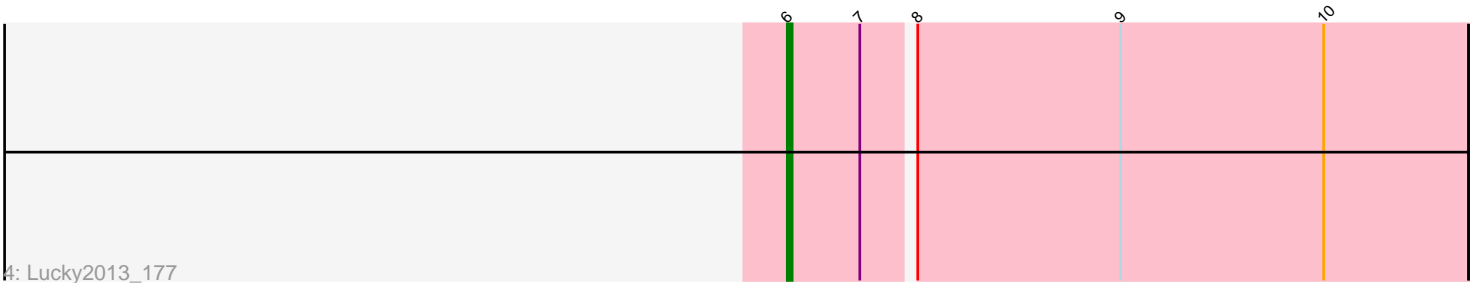
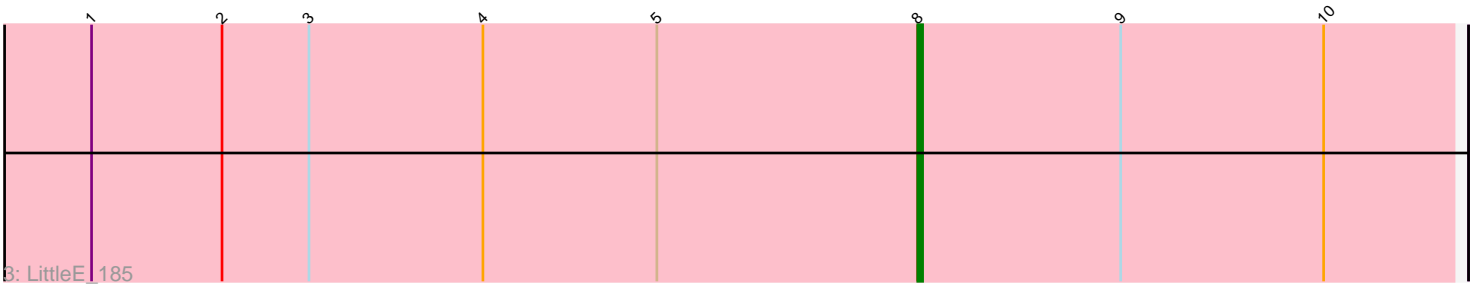
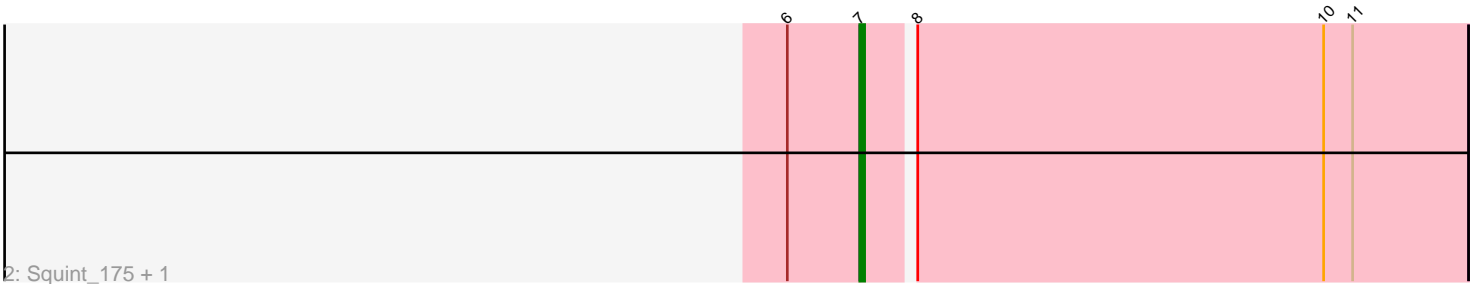
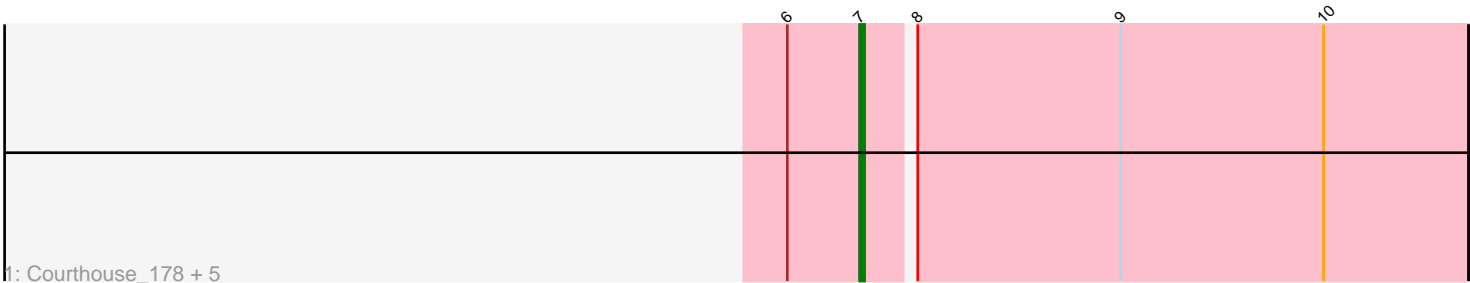


Pham 5442



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 5442 Report

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

Pham number 5442 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Courthouse\_178, Hannaconda\_173, Ariel\_182, MiaZeal\_184, Porcelain\_181, KashFlow\_178
- Track 2 : Squint\_175, Omega\_189
- Track 3 : LittleE\_185
- Track 4 : Lucky2013\_177
- Track 5 : Superphikiman\_179

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

The start number called the most often in the published annotations is 7, it was called in 8 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel\_182, Courthouse\_178, Hannaconda\_173, KashFlow\_178, MiaZeal\_184, Omega\_189, Porcelain\_181, Squint\_175,

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

- Lucky2013\_177, Superphikiman\_179,

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

- LittleE\_185,

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

Start 6:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Lucky2013\_177 (J),

Start 7:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 8 of 11
- Called 80.0% of time when present

- Phage (with cluster) where this start called: Ariel\_182 (J), Courthouse\_178 (J), Hannaconda\_173 (J), KashFlow\_178 (J), MiaZeal\_184 (J), Omega\_189 (J), Porcelain\_181 (J), Squint\_175 (J),

Start 8:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 18.2% of time when present
- Phage (with cluster) where this start called: LittleE\_185 (J), Superphikiman\_179 (J),

### **Summary by clusters:**

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 6 was manually annotated 1 time for cluster J.
- Start number 7 was manually annotated 8 times for cluster J.
- Start number 8 was manually annotated 2 times for cluster J.

### **Gene Information:**

Gene: Ariel\_182 Start: 89742, Stop: 89864, Start Num: 7

Candidate Starts for Ariel\_182:

(Start: 6 @89727 has 1 MA's), (Start: 7 @89742 has 8 MA's), (Start: 8 @89751 has 2 MA's), (9, 89793), (10, 89835),

Gene: Courthouse\_178 Start: 90186, Stop: 90308, Start Num: 7

Candidate Starts for Courthouse\_178:

(Start: 6 @90171 has 1 MA's), (Start: 7 @90186 has 8 MA's), (Start: 8 @90195 has 2 MA's), (9, 90237), (10, 90279),

Gene: Hannaconda\_173 Start: 92677, Stop: 92799, Start Num: 7

Candidate Starts for Hannaconda\_173:

(Start: 6 @92662 has 1 MA's), (Start: 7 @92677 has 8 MA's), (Start: 8 @92686 has 2 MA's), (9, 92728), (10, 92770),

Gene: KashFlow\_178 Start: 92490, Stop: 92612, Start Num: 7

Candidate Starts for KashFlow\_178:

(Start: 6 @92475 has 1 MA's), (Start: 7 @92490 has 8 MA's), (Start: 8 @92499 has 2 MA's), (9, 92541), (10, 92583),

Gene: LittleE\_185 Start: 93342, Stop: 93452, Start Num: 8

Candidate Starts for LittleE\_185:

(1, 93171), (2, 93198), (3, 93216), (4, 93252), (5, 93288), (Start: 8 @93342 has 2 MA's), (9, 93384), (10, 93426),

Gene: Lucky2013\_177 Start: 89242, Stop: 89379, Start Num: 6

Candidate Starts for Lucky2013\_177:

(Start: 6 @89242 has 1 MA's), (Start: 7 @89257 has 8 MA's), (Start: 8 @89266 has 2 MA's), (9, 89308), (10, 89350),

Gene: MiaZeal\_184 Start: 90404, Stop: 90526, Start Num: 7

Candidate Starts for MiaZeal\_184:

(Start: 6 @90389 has 1 MA's), (Start: 7 @90404 has 8 MA's), (Start: 8 @90413 has 2 MA's), (9, 90455), (10, 90497),

Gene: Omega\_189 Start: 94871, Stop: 94993, Start Num: 7

Candidate Starts for Omega\_189:

(Start: 6 @94856 has 1 MA's), (Start: 7 @94871 has 8 MA's), (Start: 8 @94880 has 2 MA's), (10, 94964), (11, 94970),

Gene: Porcelain\_181 Start: 90203, Stop: 90325, Start Num: 7

Candidate Starts for Porcelain\_181:

(Start: 6 @90188 has 1 MA's), (Start: 7 @90203 has 8 MA's), (Start: 8 @90212 has 2 MA's), (9, 90254), (10, 90296),

Gene: Squint\_175 Start: 90466, Stop: 90588, Start Num: 7

Candidate Starts for Squint\_175:

(Start: 6 @90451 has 1 MA's), (Start: 7 @90466 has 8 MA's), (Start: 8 @90475 has 2 MA's), (10, 90559), (11, 90565),

Gene: Superphikiman\_179 Start: 89891, Stop: 90004, Start Num: 8

Candidate Starts for Superphikiman\_179:

(Start: 6 @89867 has 1 MA's), (Start: 7 @89882 has 8 MA's), (Start: 8 @89891 has 2 MA's), (9, 89933), (10, 89975),