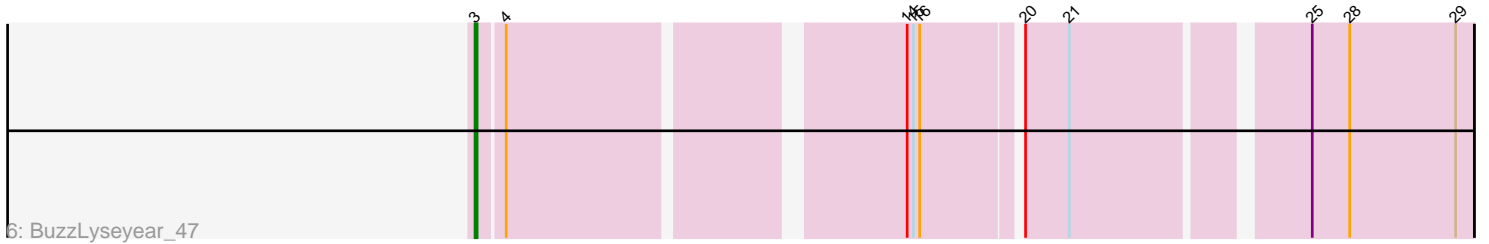
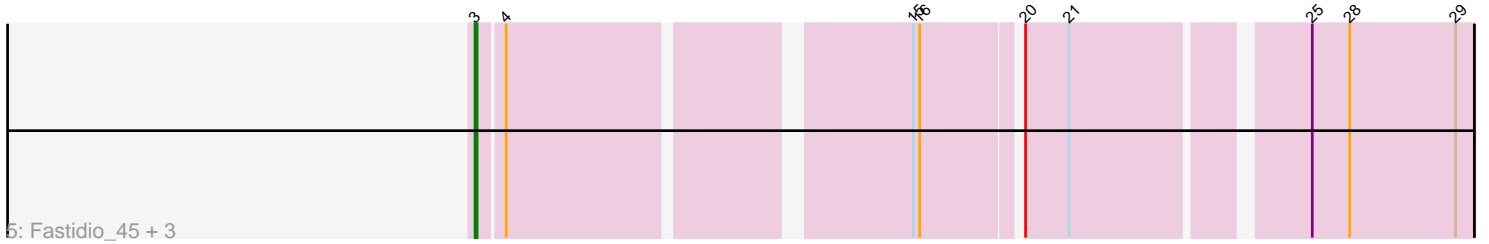
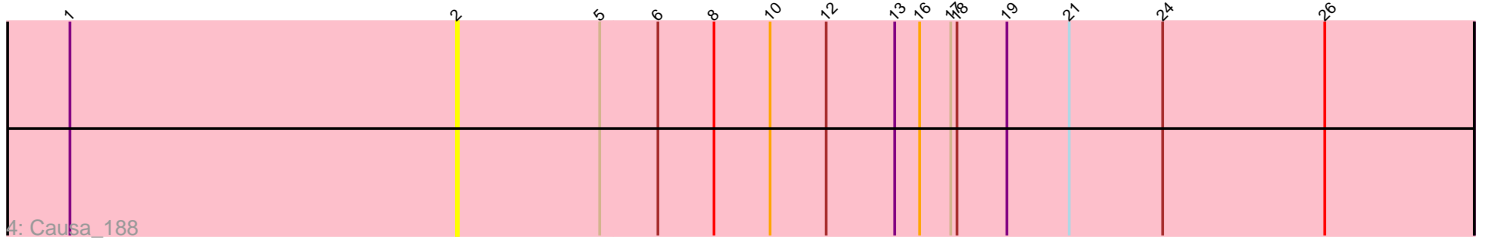
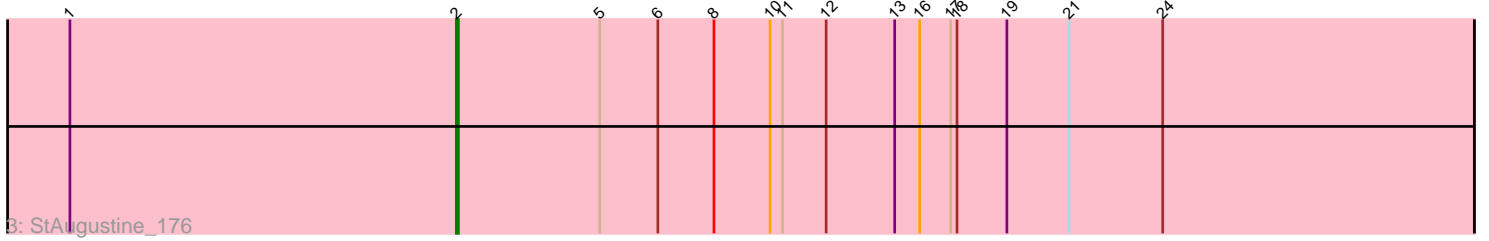
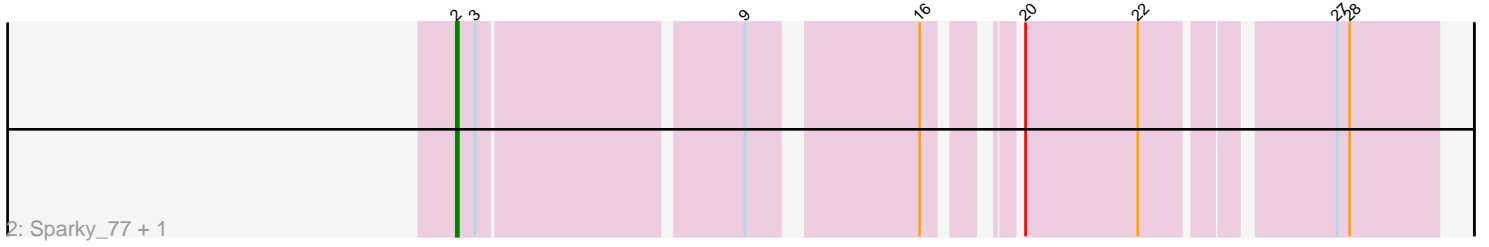
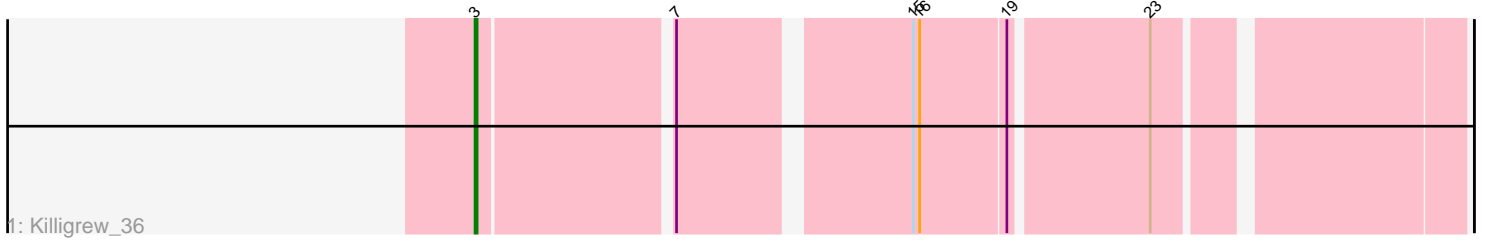


Pham 225085



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 225085 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225085 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Killigrew\_36
- Track 2 : Sparky\_77, Farewell\_78
- Track 3 : StAugustine\_176
- Track 4 : Causa\_188
- Track 5 : Fastidio\_45, Demsculpinboyz\_49, Marker\_42, DaddyRickover\_42
- Track 6 : BuzzLyseyear\_47

### ***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:

- BuzzLyseyear\_47, DaddyRickover\_42, Demsculpinboyz\_49, Fastidio\_45, Killigrew\_36, Marker\_42,

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

- Farewell\_78, Sparky\_77,

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

- Causa\_188, StAugustine\_176,

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

Start 2:

- Found in 4 of 10 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa\_188 (AI), Farewell\_78 (AF), Sparky\_77 (AF), StAugustine\_176 (AI),

Start 3:

- Found in 8 of 10 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 5 of 8

- Called 75.0% of time when present
- Phage (with cluster) where this start called: BuzzLyseyear\_47 (F1), DaddyRickover\_42 (F1), Demsculpinboyz\_49 (F2), Fastidio\_45 (F1), Killigrew\_36 (A1), Marker\_42 (F1),

### **Summary by clusters:**

There are 5 clusters represented in this pham: AI, F1, F2, A1, AF,

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster AF:

- Start number 2 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AI:

- Start number 2 was manually annotated 1 time for cluster AI.

Info for manual annotations of cluster F1:

- Start number 3 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 3 was manually annotated 1 time for cluster F2.

### **Gene Information:**

Gene: BuzzLyseyear\_47 Start: 33161, Stop: 32727, Start Num: 3

Candidate Starts for BuzzLyseyear\_47:

(Start: 3 @33161 has 5 MA's), (4, 33149), (14, 32975), (15, 32972), (16, 32969), (20, 32927), (21, 32906), (25, 32804), (28, 32786), (29, 32735),

Gene: Causa\_188 Start: 97632, Stop: 97144, Start Num: 2

Candidate Starts for Causa\_188:

(1, 97818), (Start: 2 @97632 has 3 MA's), (5, 97563), (6, 97536), (8, 97509), (10, 97482), (12, 97455), (13, 97422), (16, 97410), (17, 97395), (18, 97392), (19, 97368), (21, 97338), (24, 97293), (26, 97215),

Gene: DaddyRickover\_42 Start: 31755, Stop: 31321, Start Num: 3

Candidate Starts for DaddyRickover\_42:

(Start: 3 @31755 has 5 MA's), (4, 31743), (15, 31566), (16, 31563), (20, 31521), (21, 31500), (25, 31398), (28, 31380), (29, 31329),

Gene: Demsculpinboyz\_49 Start: 31194, Stop: 30760, Start Num: 3

Candidate Starts for Demsculpinboyz\_49:

(Start: 3 @31194 has 5 MA's), (4, 31182), (15, 31005), (16, 31002), (20, 30960), (21, 30939), (25, 30837), (28, 30819), (29, 30768),

Gene: Farewell\_78 Start: 51653, Stop: 52063, Start Num: 2

Candidate Starts for Farewell\_78:

(Start: 2 @51653 has 3 MA's), (Start: 3 @51662 has 5 MA's), (9, 51782), (16, 51854), (20, 51881), (22, 51935), (27, 52016), (28, 52022),

Gene: Fastidio\_45 Start: 32251, Stop: 31817, Start Num: 3

Candidate Starts for Fastidio\_45:

(Start: 3 @32251 has 5 MA's), (4, 32239), (15, 32062), (16, 32059), (20, 32017), (21, 31996), (25, 31894), (28, 31876), (29, 31825),

Gene: Killigrew\_36 Start: 30926, Stop: 30498, Start Num: 3

Candidate Starts for Killigrew\_36:

(Start: 3 @30926 has 5 MA's), (7, 30839), (15, 30737), (16, 30734), (19, 30695), (23, 30632),

Gene: Marker\_42 Start: 31554, Stop: 31120, Start Num: 3

Candidate Starts for Marker\_42:

(Start: 3 @31554 has 5 MA's), (4, 31542), (15, 31365), (16, 31362), (20, 31320), (21, 31299), (25, 31197), (28, 31179), (29, 31128),

Gene: Sparky\_77 Start: 53247, Stop: 53657, Start Num: 2

Candidate Starts for Sparky\_77:

(Start: 2 @53247 has 3 MA's), (Start: 3 @53256 has 5 MA's), (9, 53376), (16, 53448), (20, 53475), (22, 53529), (27, 53610), (28, 53616),

Gene: StAugustine\_176 Start: 97616, Stop: 97128, Start Num: 2

Candidate Starts for StAugustine\_176:

(1, 97802), (Start: 2 @97616 has 3 MA's), (5, 97547), (6, 97520), (8, 97493), (10, 97466), (11, 97460), (12, 97439), (13, 97406), (16, 97394), (17, 97379), (18, 97376), (19, 97352), (21, 97322), (24, 97277),