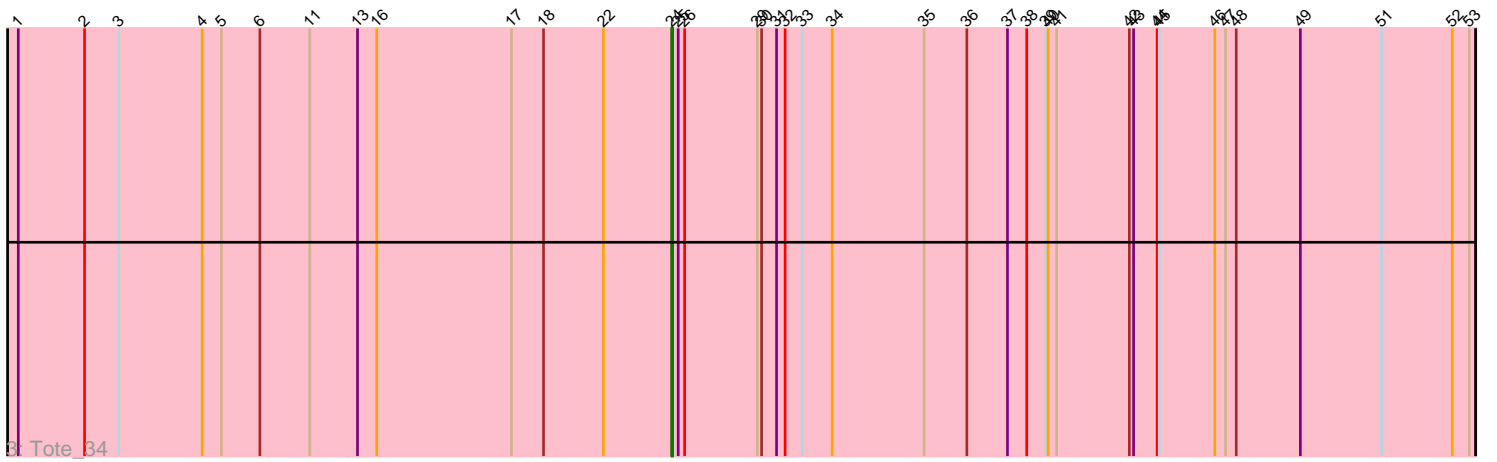
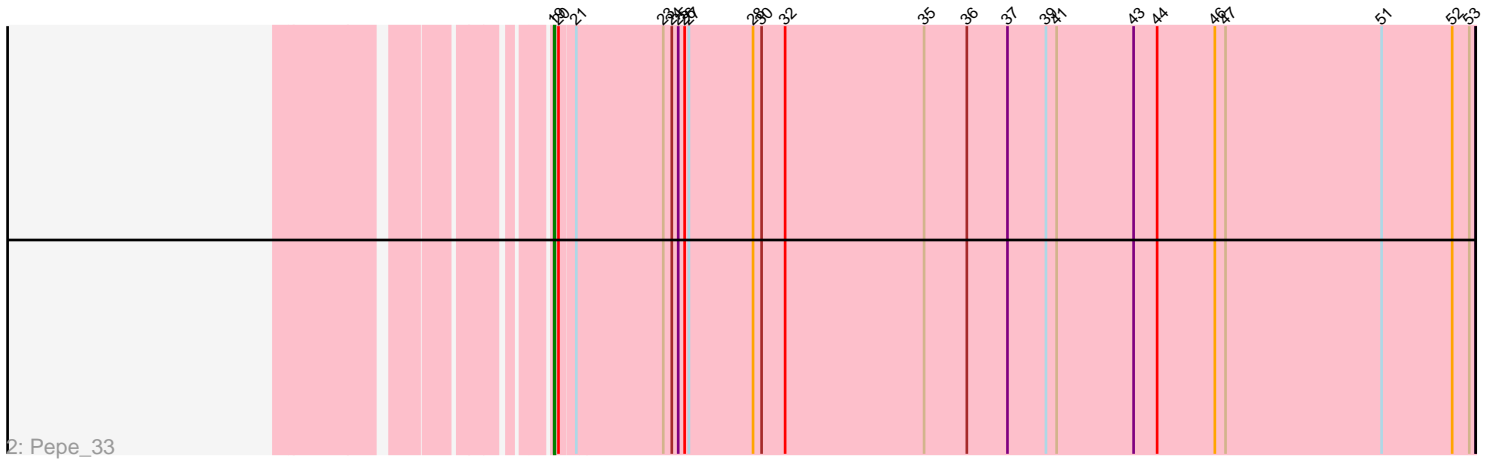
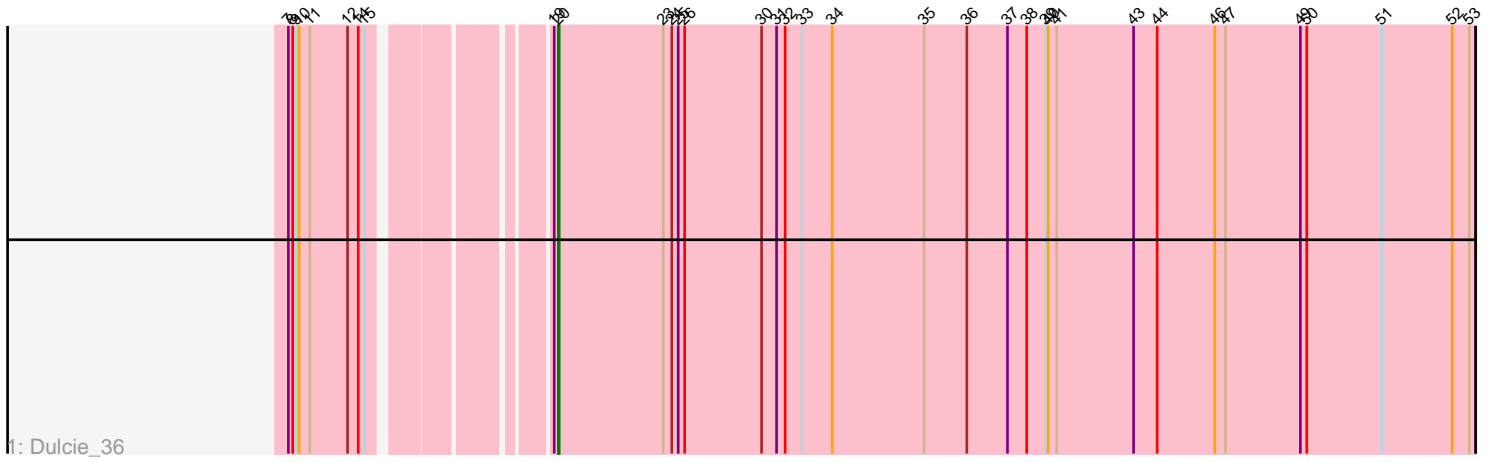


Pham 162667



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 162667 Report

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

Pham number 162667 has 3 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Dulcie\_36
- Track 2 : Pepe\_33
- Track 3 : Tote\_34

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

The start number called the most often in the published annotations is 24, it was called in 1 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Tote\_34,

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

- Dulcie\_36, Pepe\_33,

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

- 

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

Start 19:

- Found in 2 of 3 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Pepe\_33 (A1),

Start 20:

- Found in 2 of 3 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 1 of 3
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Dulcie\_36 (A1),

Start 24:

- Found in 3 of 3 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 1 of 3
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Tote\_34 (A1),

### Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 19 was manually annotated 1 time for cluster A1.
- Start number 20 was manually annotated 1 time for cluster A1.
- Start number 24 was manually annotated 1 time for cluster A1.

### Gene Information:

Gene: Dulcie\_36 Start: 29273, Stop: 30550, Start Num: 20

Candidate Starts for Dulcie\_36:

(7, 28967), (8, 28973), (9, 28979), (10, 28982), (11, 28997), (12, 29048), (14, 29063), (15, 29072), (Start: 19 @29267 has 1 MA's), (Start: 20 @29273 has 1 MA's), (23, 29411), (Start: 24 @29423 has 1 MA's), (25, 29432), (26, 29441), (30, 29549), (31, 29570), (32, 29582), (33, 29606), (34, 29648), (35, 29777), (36, 29837), (37, 29894), (38, 29921), (39, 29948), (40, 29951), (41, 29963), (43, 30071), (44, 30104), (46, 30185), (47, 30200), (49, 30305), (50, 30314), (51, 30419), (52, 30518), (53, 30542),

Gene: Pepe\_33 Start: 27246, Stop: 28529, Start Num: 19

Candidate Starts for Pepe\_33:

(Start: 19 @27246 has 1 MA's), (Start: 20 @27252 has 1 MA's), (21, 27273), (23, 27390), (Start: 24 @27402 has 1 MA's), (25, 27411), (26, 27420), (27, 27426), (28, 27516), (30, 27528), (32, 27561), (35, 27756), (36, 27816), (37, 27873), (39, 27927), (41, 27942), (43, 28050), (44, 28083), (46, 28164), (47, 28179), (51, 28398), (52, 28497), (53, 28521),

Gene: Tote\_34 Start: 27141, Stop: 28268, Start Num: 24

Candidate Starts for Tote\_34:

(1, 26229), (2, 26322), (3, 26370), (4, 26487), (5, 26514), (6, 26568), (11, 26634), (13, 26700), (16, 26727), (17, 26916), (18, 26961), (22, 27045), (Start: 24 @27141 has 1 MA's), (25, 27150), (26, 27159), (29, 27261), (30, 27267), (31, 27288), (32, 27300), (33, 27324), (34, 27366), (35, 27495), (36, 27555), (37, 27612), (38, 27639), (39, 27666), (40, 27669), (41, 27681), (42, 27783), (43, 27789), (44, 27822), (45, 27825), (46, 27903), (47, 27918), (48, 27933), (49, 28023), (51, 28137), (52, 28236), (53, 28260),