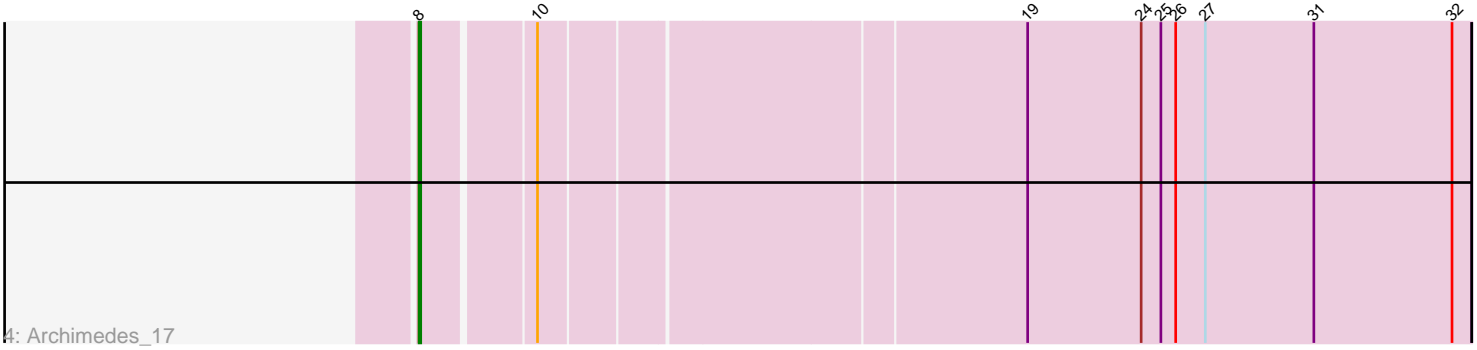
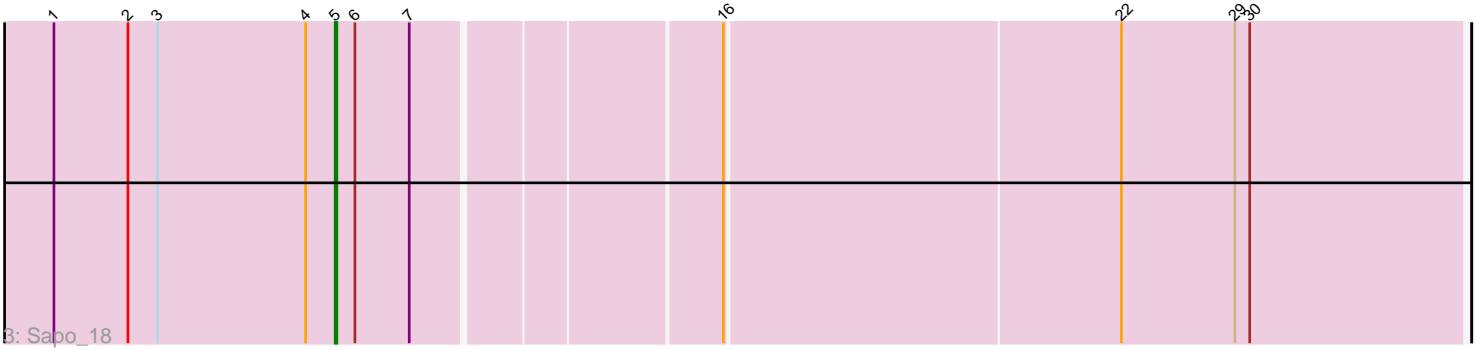
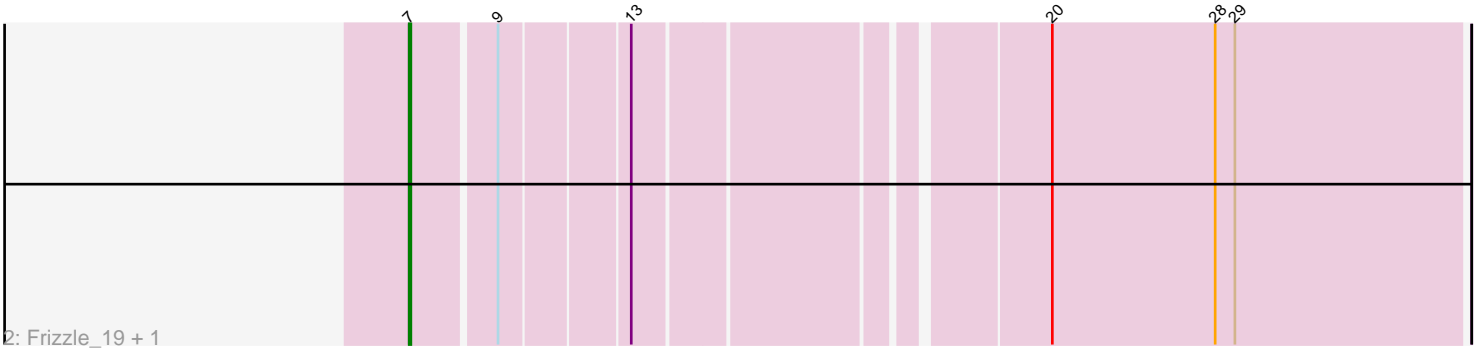
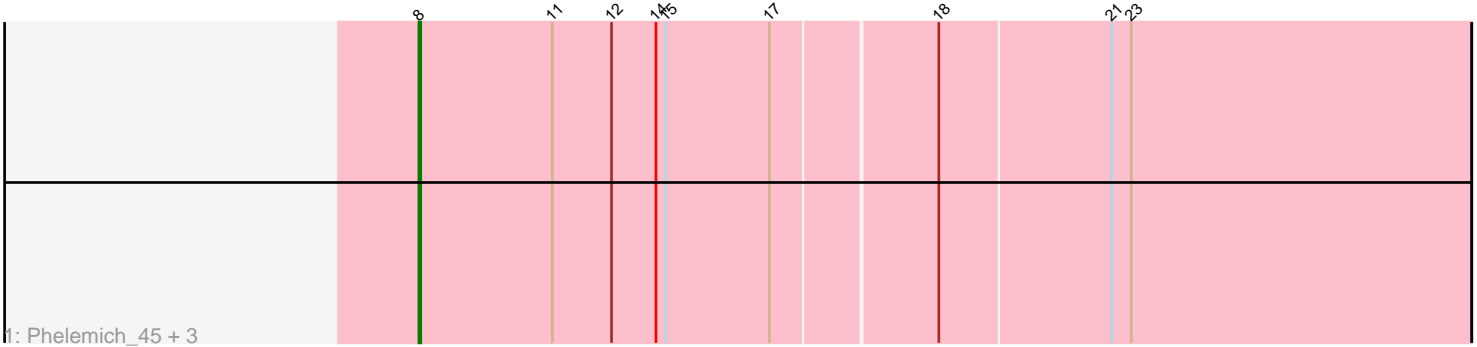


Pham 200919



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 200919 Report

This analysis was run 01/25/25 on database version 584.

Pham number 200919 has 8 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Phelemich\_45, Mysterious\_47, Reprobate\_46, Nehemiah\_45
- Track 2 : Frizzle\_19, Ghobes\_19
- Track 3 : Sapo\_18
- Track 4 : Archimedes\_17

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

The start number called the most often in the published annotations is 8, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archimedes\_17, Mysterious\_47, Nehemiah\_45, Phelemich\_45, Reprobate\_46,

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

- 

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

- Frizzle\_19, Ghobes\_19, Sapo\_18,

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

Start 5:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sapo\_18 (DA),

Start 7:

- Found in 3 of 8 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Frizzle\_19 (DA), Ghobes\_19 (DA),

Start 8:

- Found in 5 of 8 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes\_17 (DA), Mysterious\_47 (B5), Nehemiah\_45 (B5), Phelemich\_45 (B5), Reprobate\_46 (B5),

### **Summary by clusters:**

There are 2 clusters represented in this pham: B5, DA,

Info for manual annotations of cluster B5:

- Start number 8 was manually annotated 2 times for cluster B5.

Info for manual annotations of cluster DA:

- Start number 5 was manually annotated 1 time for cluster DA.
- Start number 7 was manually annotated 1 time for cluster DA.
- Start number 8 was manually annotated 1 time for cluster DA.

### **Gene Information:**

Gene: Archimedes\_17 Start: 16783, Stop: 16172, Start Num: 8

Candidate Starts for Archimedes\_17:

(Start: 8 @16783 has 3 MA's), (10, 16720), (19, 16441), (24, 16372), (25, 16360), (26, 16351), (27, 16333), (31, 16267), (32, 16183),

Gene: Frizzle\_19 Start: 17372, Stop: 16779, Start Num: 7

Candidate Starts for Frizzle\_19:

(Start: 7 @17372 has 1 MA's), (9, 17324), (13, 17252), (20, 17027), (28, 16928), (29, 16916),

Gene: Ghobes\_19 Start: 17373, Stop: 16780, Start Num: 7

Candidate Starts for Ghobes\_19:

(Start: 7 @17373 has 1 MA's), (9, 17325), (13, 17253), (20, 17028), (28, 16929), (29, 16917),

Gene: Mysterious\_47 Start: 41019, Stop: 40390, Start Num: 8

Candidate Starts for Mysterious\_47:

(Start: 8 @41019 has 3 MA's), (11, 40938), (12, 40902), (14, 40875), (15, 40869), (17, 40806), (18, 40710), (21, 40608), (23, 40596),

Gene: Nehemiah\_45 Start: 41019, Stop: 40390, Start Num: 8

Candidate Starts for Nehemiah\_45:

(Start: 8 @41019 has 3 MA's), (11, 40938), (12, 40902), (14, 40875), (15, 40869), (17, 40806), (18, 40710), (21, 40608), (23, 40596),

Gene: Phelemich\_45 Start: 41018, Stop: 40389, Start Num: 8

Candidate Starts for Phelemich\_45:

(Start: 8 @41018 has 3 MA's), (11, 40937), (12, 40901), (14, 40874), (15, 40868), (17, 40805), (18, 40709), (21, 40607), (23, 40595),

Gene: Reprobate\_46 Start: 41023, Stop: 40394, Start Num: 8

Candidate Starts for Reprobate\_46:

(Start: 8 @41023 has 3 MA's), (11, 40942), (12, 40906), (14, 40879), (15, 40873), (17, 40810), (18, 40714), (21, 40612), (23, 40600),

Gene: Sapo\_18 Start: 17320, Stop: 16661, Start Num: 5

Candidate Starts for Sapo\_18:

(1, 17491), (2, 17446), (3, 17428), (4, 17338), (Start: 5 @17320 has 1 MA's), (6, 17308), (Start: 7 @17275 has 1 MA's), (16, 17101), (22, 16867), (29, 16798), (30, 16789),