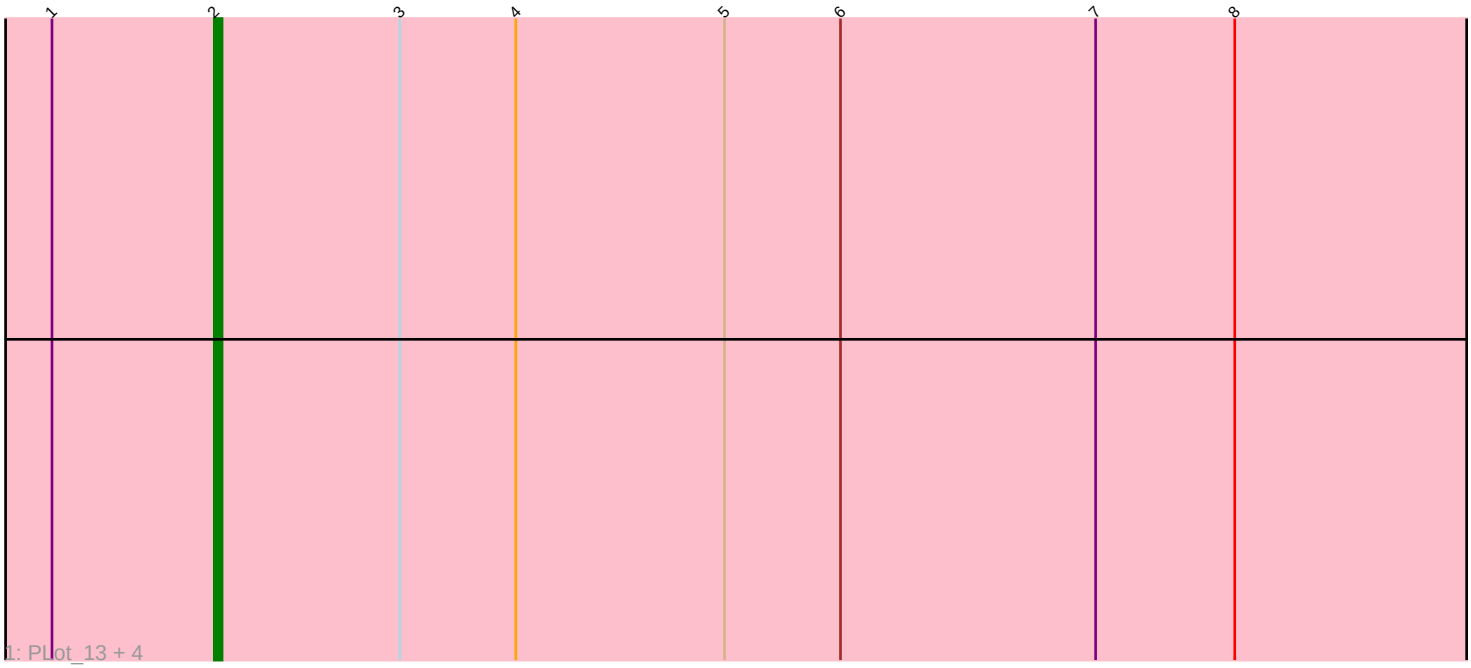
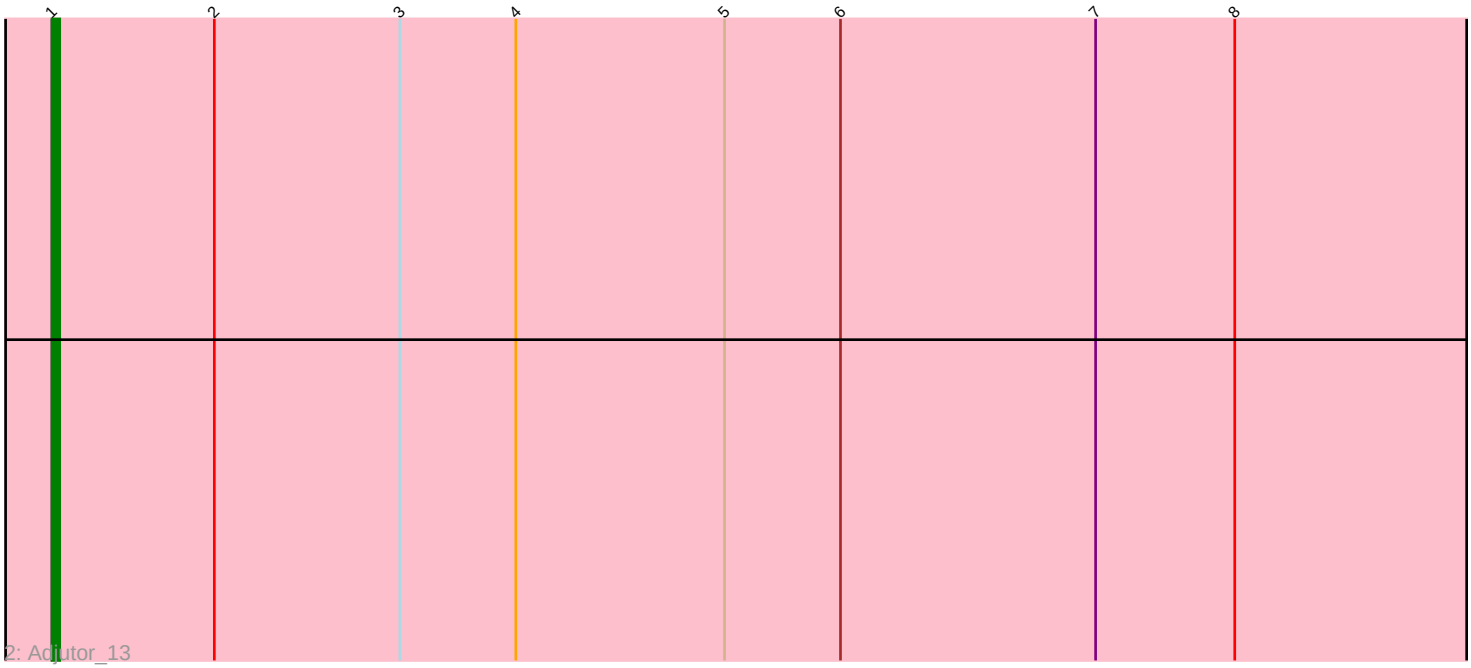
Pham 28121



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 28121 Report

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

Pham number 28121 has 6 members, 0 are drafts.

Phages represented in each track:
• Track 1 : PLot_13, Chill_13, Helpful_13, WaldoWhy_13, PBI1_13
• Track 2 : Adjutor_13

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

The start number called the most often in the published annotations is 2, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chill_13, Helpful_13, PBI1_13, PLot_13, WaldoWhy_13,

Genes that have the "Most Annotated" start but do not call it:
• Adjutor_13,

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

**Summary by start number:**

Start 1:
• Found in 6 of 6 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 1 of 6
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Adjutor_13 (D1),

Start 2:
• Found in 6 of 6 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 5 of 6
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Chill_13 (D1), Helpful_13 (D1), PBI1_13 (D1), PLot_13 (D1), WaldoWhy_13 (D1),

**Summary by clusters:**

There is one cluster represented in this pham: D1

Info for manual annotations of cluster D1:
•Start number 1 was manually annotated 1 time for cluster D1.
•Start number 2 was manually annotated 5 times for cluster D1.

### *Gene Information:*

Gene: Adjutor_13 Start: 8801, Stop: 9067, Start Num: 1
Candidate Starts for Adjutor_13:
(Start: 1 @8801 has 1 MA's), (Start: 2 @8822 has 5 MA's), (3, 8846), (4, 8861), (5, 8888), (6, 8903), (7, 8936), (8, 8954),

Gene: Chill_13 Start: 8885, Stop: 9130, Start Num: 2
Candidate Starts for Chill_13:
(Start: 1 @8864 has 1 MA's), (Start: 2 @8885 has 5 MA's), (3, 8909), (4, 8924), (5, 8951), (6, 8966), (7, 8999), (8, 9017),

Gene: Helpful_13 Start: 8882, Stop: 9127, Start Num: 2
Candidate Starts for Helpful_13:
(Start: 1 @8861 has 1 MA's), (Start: 2 @8882 has 5 MA's), (3, 8906), (4, 8921), (5, 8948), (6, 8963), (7, 8996), (8, 9014),

Gene: PBI1_13 Start: 8813, Stop: 9058, Start Num: 2
Candidate Starts for PBI1_13:
(Start: 1 @8792 has 1 MA's), (Start: 2 @8813 has 5 MA's), (3, 8837), (4, 8852), (5, 8879), (6, 8894), (7, 8927), (8, 8945),

Gene: PLot_13 Start: 8885, Stop: 9130, Start Num: 2
Candidate Starts for PLot_13:
(Start: 1 @8864 has 1 MA's), (Start: 2 @8885 has 5 MA's), (3, 8909), (4, 8924), (5, 8951), (6, 8966), (7, 8999), (8, 9017),

Gene: WaldoWhy_13 Start: 8885, Stop: 9130, Start Num: 2
Candidate Starts for WaldoWhy_13:
(Start: 1 @8864 has 1 MA's), (Start: 2 @8885 has 5 MA's), (3, 8909), (4, 8924), (5, 8951), (6, 8966), (7, 8999), (8, 9017),