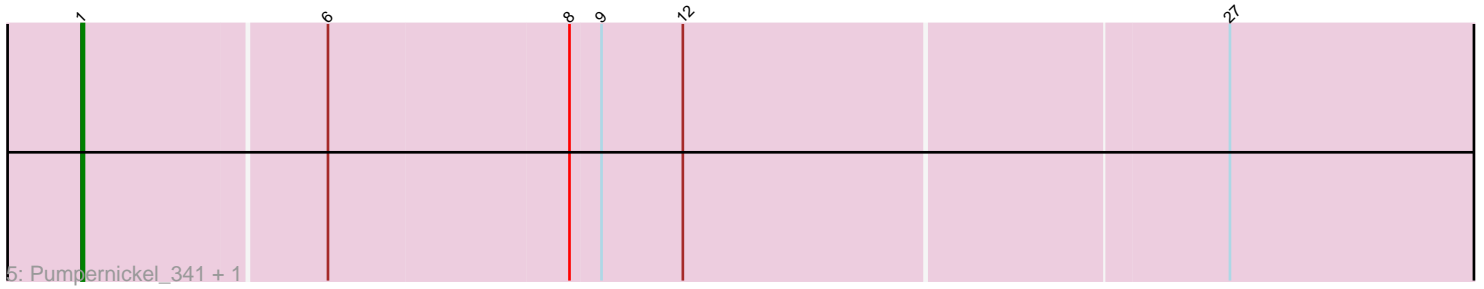
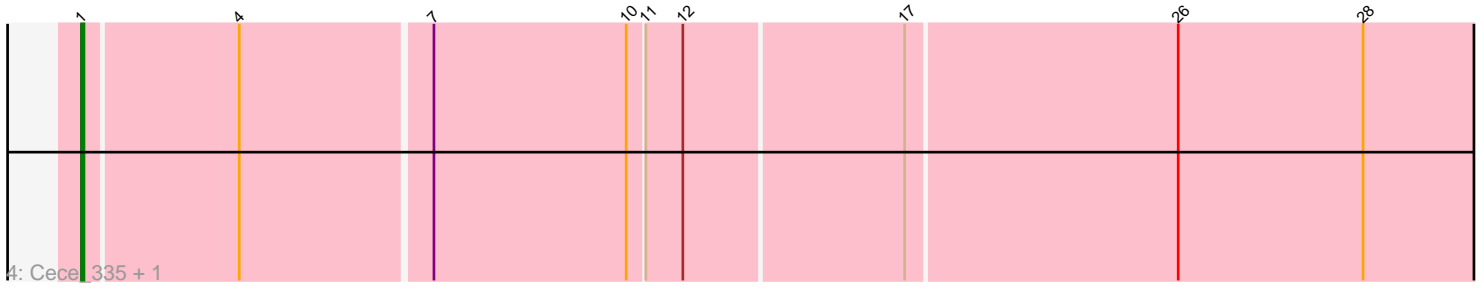
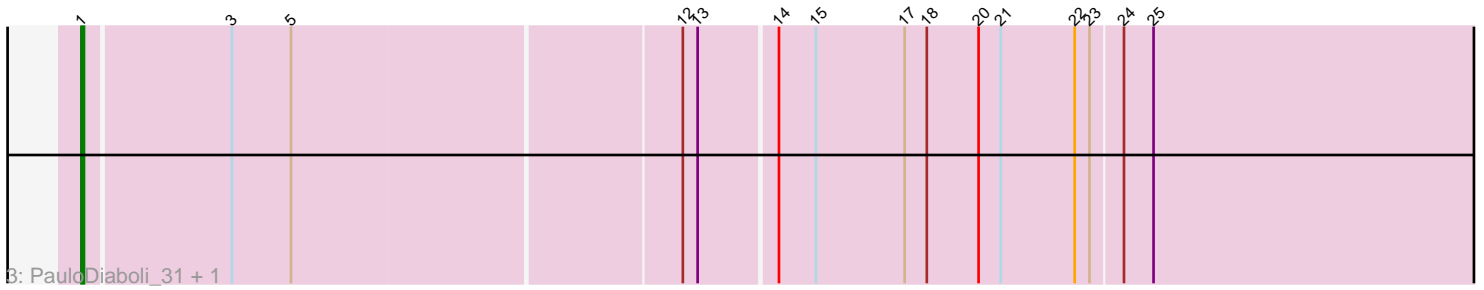
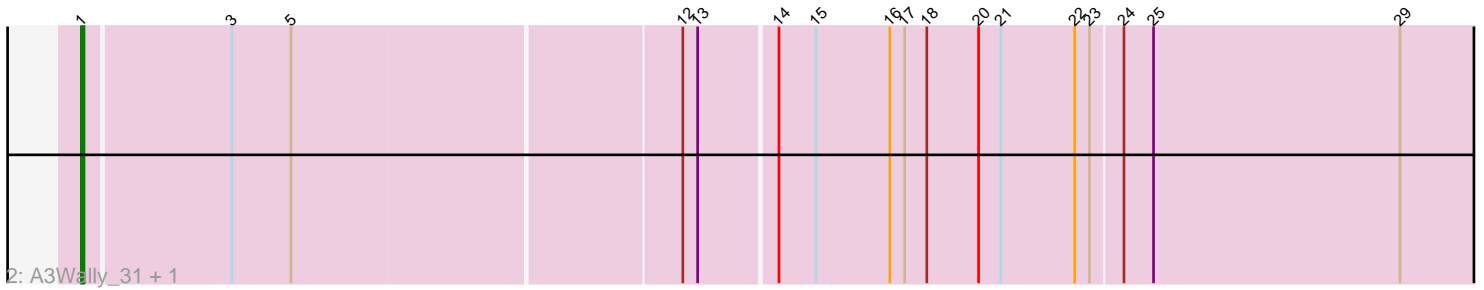
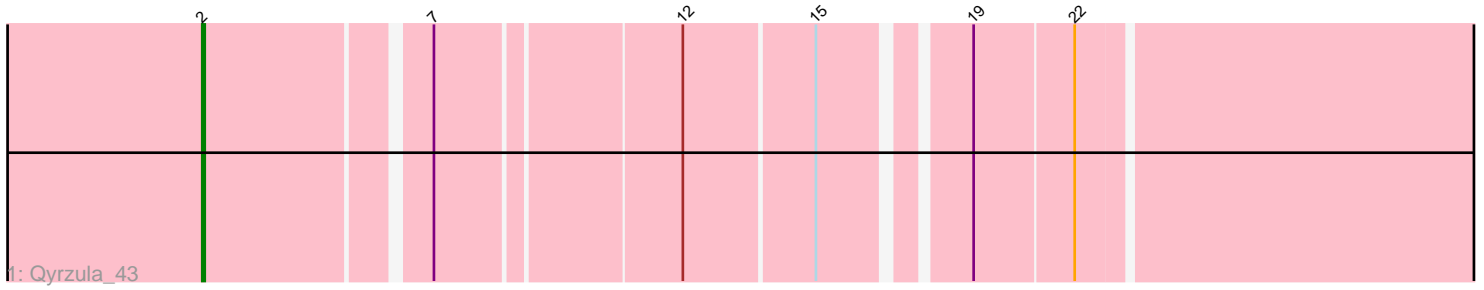


Pham 190317



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 190317 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190317 has 9 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Qyrzula\_43
- Track 2 : A3Wally\_31, A3Wally\_384
- Track 3 : PauloDiaboli\_31, PauloDiaboli\_386
- Track 4 : Cece\_335, Cece\_33
- Track 5 : Pumpernickel\_341, Pumpernickel\_40

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

The start number called the most often in the published annotations is 1, it was called in 8 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally\_31, A3Wally\_384, Cece\_33, Cece\_335, PauloDiaboli\_31, PauloDiaboli\_386, Pumpernickel\_341, Pumpernickel\_40,

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

- 

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

- Qyrzula\_43,

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

Start 1:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 8 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally\_31 (GD1), A3Wally\_384 (GD1), Cece\_33 (GD3), Cece\_335 (GD3), PauloDiaboli\_31 (GD1), PauloDiaboli\_386 (GD1), Pumpernickel\_341 (GD4), Pumpernickel\_40 (GD4),

Start 2:

- Found in 1 of 9 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Qyrzula\_43 (B2),

### **Summary by clusters:**

There are 4 clusters represented in this pham: GD1, GD3, GD4, B2,

Info for manual annotations of cluster B2:

- Start number 2 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster GD1:

- Start number 1 was manually annotated 4 times for cluster GD1.

Info for manual annotations of cluster GD3:

- Start number 1 was manually annotated 2 times for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 1 was manually annotated 2 times for cluster GD4.

### **Gene Information:**

Gene: A3Wally\_31 Start: 10518, Stop: 11093, Start Num: 1

Candidate Starts for A3Wally\_31:

(Start: 1 @10518 has 8 MA's), (3, 10575), (5, 10599), (12, 10752), (13, 10758), (14, 10788), (15, 10803), (16, 10833), (17, 10839), (18, 10848), (20, 10869), (21, 10878), (22, 10908), (23, 10914), (24, 10926), (25, 10938), (29, 11037),

Gene: A3Wally\_384 Start: 189739, Stop: 190314, Start Num: 1

Candidate Starts for A3Wally\_384:

(Start: 1 @189739 has 8 MA's), (3, 189796), (5, 189820), (12, 189973), (13, 189979), (14, 190009), (15, 190024), (16, 190054), (17, 190060), (18, 190069), (20, 190090), (21, 190099), (22, 190129), (23, 190135), (24, 190147), (25, 190159), (29, 190258),

Gene: Cece\_335 Start: 181006, Stop: 181578, Start Num: 1

Candidate Starts for Cece\_335:

(Start: 1 @181006 has 8 MA's), (4, 181066), (7, 181141), (10, 181219), (11, 181225), (12, 181240), (17, 181327), (26, 181435), (28, 181510),

Gene: Cece\_33 Start: 12572, Stop: 13144, Start Num: 1

Candidate Starts for Cece\_33:

(Start: 1 @12572 has 8 MA's), (4, 12632), (7, 12707), (10, 12785), (11, 12791), (12, 12806), (17, 12893), (26, 13001), (28, 13076),

Gene: PauloDiaboli\_31 Start: 10358, Stop: 10933, Start Num: 1

Candidate Starts for PauloDiaboli\_31:

(Start: 1 @10358 has 8 MA's), (3, 10415), (5, 10439), (12, 10592), (13, 10598), (14, 10628), (15, 10643), (17, 10679), (18, 10688), (20, 10709), (21, 10718), (22, 10748), (23, 10754), (24, 10766), (25, 10778),

Gene: PauloDiaboli\_386 Start: 186987, Stop: 187562, Start Num: 1

Candidate Starts for PauloDiaboli\_386:

(Start: 1 @186987 has 8 MA's), (3, 187044), (5, 187068), (12, 187221), (13, 187227), (14, 187257), (15, 187272), (17, 187308), (18, 187317), (20, 187338), (21, 187347), (22, 187377), (23, 187383), (24, 187395), (25, 187407),

Gene: Pumpernickel\_341 Start: 180990, Stop: 181568, Start Num: 1

Candidate Starts for Pumpernickel\_341:

(Start: 1 @180990 has 8 MA's), (6, 181086), (8, 181182), (9, 181194), (12, 181227), (27, 181443),

Gene: Pumpernickel\_40 Start: 14858, Stop: 15436, Start Num: 1

Candidate Starts for Pumpernickel\_40:

(Start: 1 @14858 has 8 MA's), (6, 14954), (8, 15050), (9, 15062), (12, 15095), (27, 15311),

Gene: Qyrzula\_43 Start: 40579, Stop: 40082, Start Num: 2

Candidate Starts for Qyrzula\_43:

(Start: 2 @40579 has 1 MA's), (7, 40495), (12, 40402), (15, 40351), (19, 40300), (22, 40261),