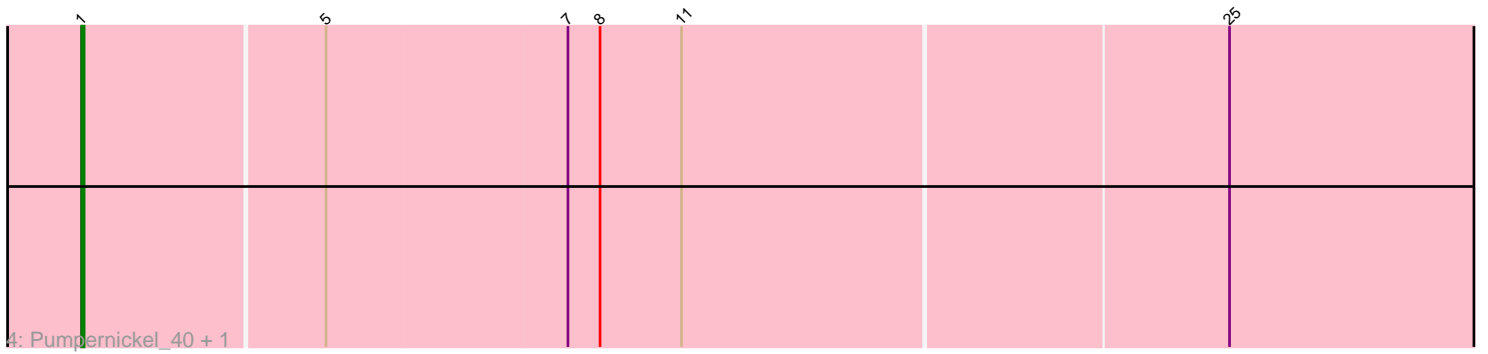
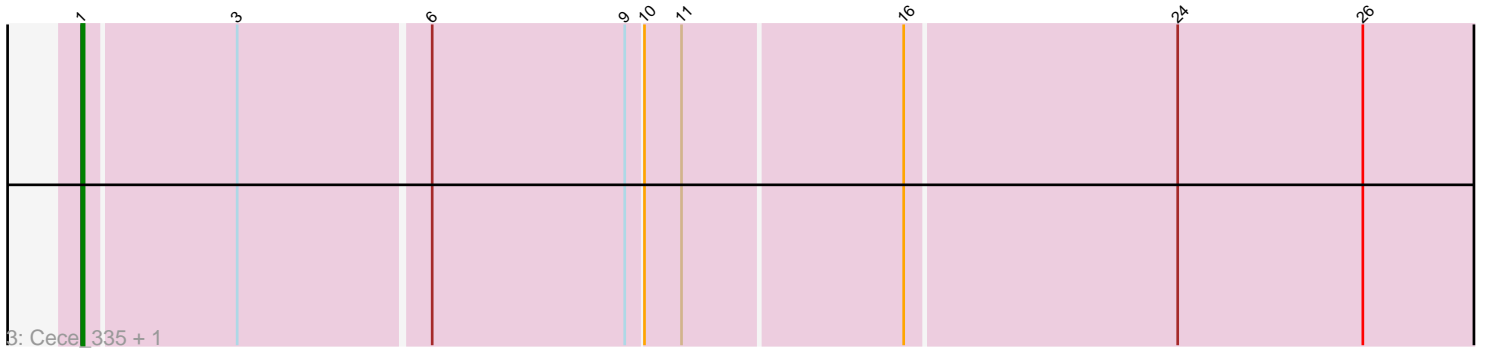
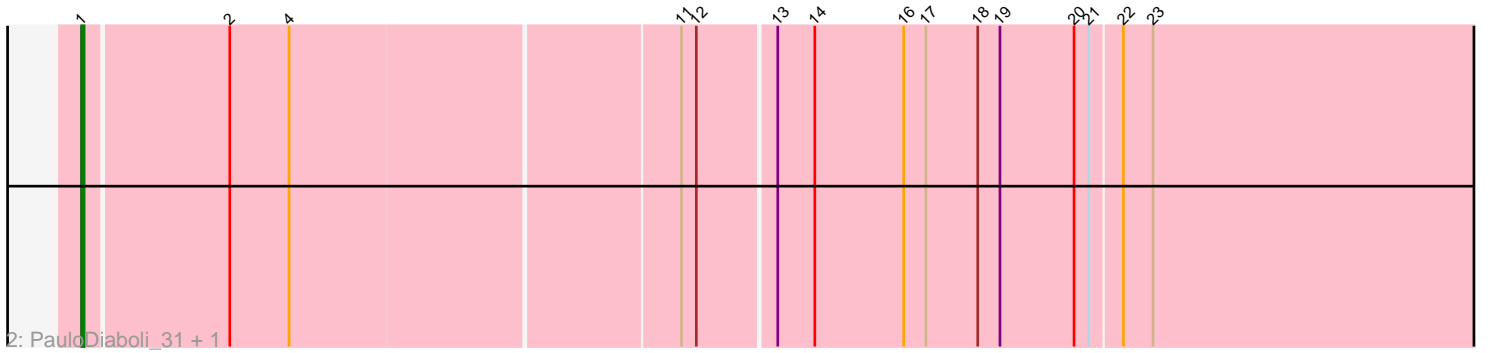
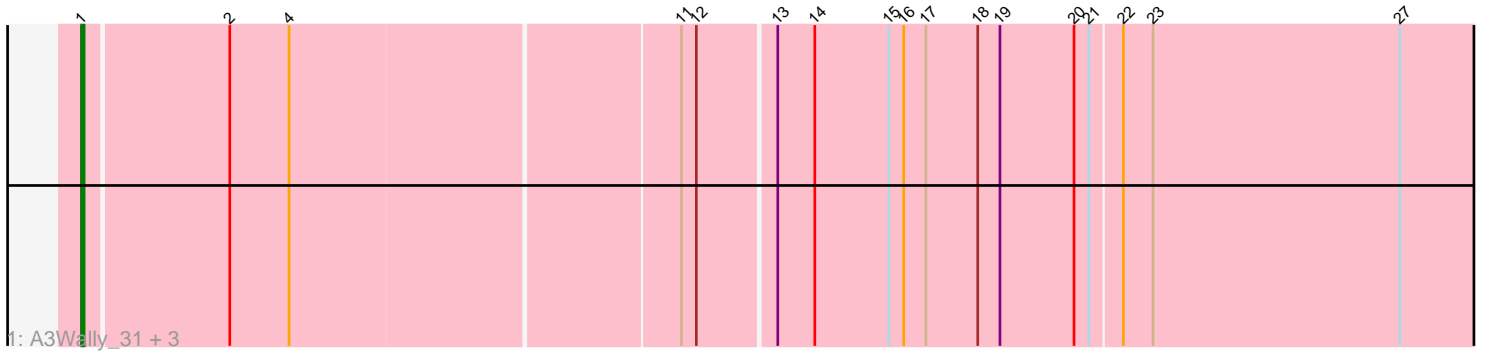


Pham 305504



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 305504 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305504 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : A3Wally\_31, Dodo\_32, A3Wally\_384, Dodo\_378
- Track 2 : PauloDiaboli\_31, PauloDiaboli\_386
- Track 3 : Cece\_335, Cece\_33
- Track 4 : Pumpernickel\_40, Pumpernickel\_341

### ***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 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally\_31, A3Wally\_384, Cece\_33, Cece\_335, Dodo\_32, Dodo\_378, 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:

- 

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

Start 1:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 10
- 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), Dodo\_32 (GD1), Dodo\_378 (GD1), PauloDiaboli\_31 (GD1), PauloDiaboli\_386 (GD1), Pumpernickel\_341 (GD4), Pumpernickel\_40 (GD4),

### **Summary by clusters:**

There are 3 clusters represented in this pham: GD1, GD3, GD4,

Info for manual annotations of cluster GD1:

- Start number 1 was manually annotated 6 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 10 MA's), (2, 10575), (4, 10599), (11, 10752), (12, 10758), (13, 10788), (14, 10803), (15, 10833), (16, 10839), (17, 10848), (18, 10869), (19, 10878), (20, 10908), (21, 10914), (22, 10926), (23, 10938), (27, 11037),

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

Candidate Starts for A3Wally\_384:

(Start: 1 @189739 has 10 MA's), (2, 189796), (4, 189820), (11, 189973), (12, 189979), (13, 190009), (14, 190024), (15, 190054), (16, 190060), (17, 190069), (18, 190090), (19, 190099), (20, 190129), (21, 190135), (22, 190147), (23, 190159), (27, 190258),

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

Candidate Starts for Cece\_335:

(Start: 1 @181006 has 10 MA's), (3, 181066), (6, 181141), (9, 181219), (10, 181225), (11, 181240), (16, 181327), (24, 181435), (26, 181510),

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

Candidate Starts for Cece\_33:

(Start: 1 @12572 has 10 MA's), (3, 12632), (6, 12707), (9, 12785), (10, 12791), (11, 12806), (16, 12893), (24, 13001), (26, 13076),

Gene: Dodo\_32 Start: 10365, Stop: 10940, Start Num: 1

Candidate Starts for Dodo\_32:

(Start: 1 @10365 has 10 MA's), (2, 10422), (4, 10446), (11, 10599), (12, 10605), (13, 10635), (14, 10650), (15, 10680), (16, 10686), (17, 10695), (18, 10716), (19, 10725), (20, 10755), (21, 10761), (22, 10773), (23, 10785), (27, 10884),

Gene: Dodo\_378 Start: 188565, Stop: 189140, Start Num: 1

Candidate Starts for Dodo\_378:

(Start: 1 @188565 has 10 MA's), (2, 188622), (4, 188646), (11, 188799), (12, 188805), (13, 188835), (14, 188850), (15, 188880), (16, 188886), (17, 188895), (18, 188916), (19, 188925), (20, 188955), (21, 188961), (22, 188973), (23, 188985), (27, 189084),

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

Candidate Starts for PauloDiaboli\_31:

(Start: 1 @10358 has 10 MA's), (2, 10415), (4, 10439), (11, 10592), (12, 10598), (13, 10628), (14, 10643), (16, 10679), (17, 10688), (18, 10709), (19, 10718), (20, 10748), (21, 10754), (22, 10766), (23, 10778),

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

Candidate Starts for PauloDiaboli\_386:

(Start: 1 @186987 has 10 MA's), (2, 187044), (4, 187068), (11, 187221), (12, 187227), (13, 187257), (14, 187272), (16, 187308), (17, 187317), (18, 187338), (19, 187347), (20, 187377), (21, 187383), (22, 187395), (23, 187407),

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

Candidate Starts for Pumpernickel\_40:

(Start: 1 @14858 has 10 MA's), (5, 14954), (7, 15050), (8, 15062), (11, 15095), (25, 15311),

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

Candidate Starts for Pumpernickel\_341:

(Start: 1 @180990 has 10 MA's), (5, 181086), (7, 181182), (8, 181194), (11, 181227), (25, 181443),