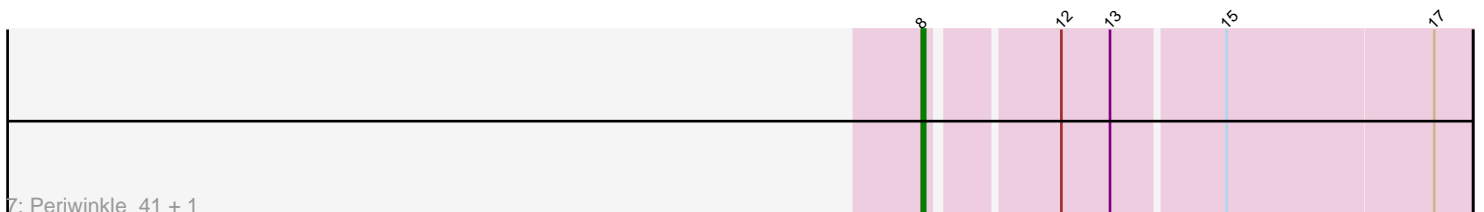
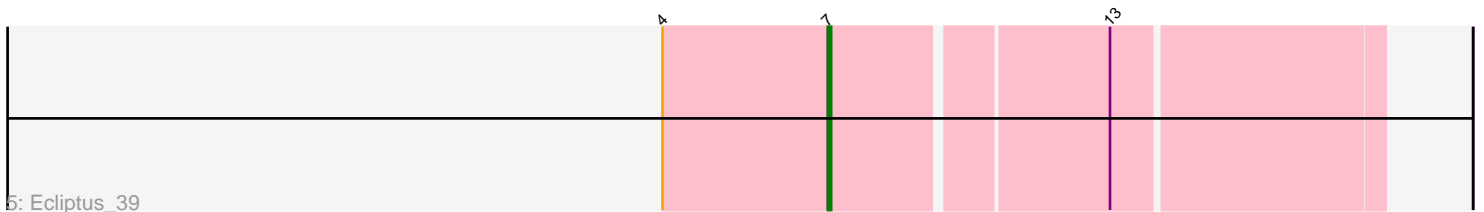
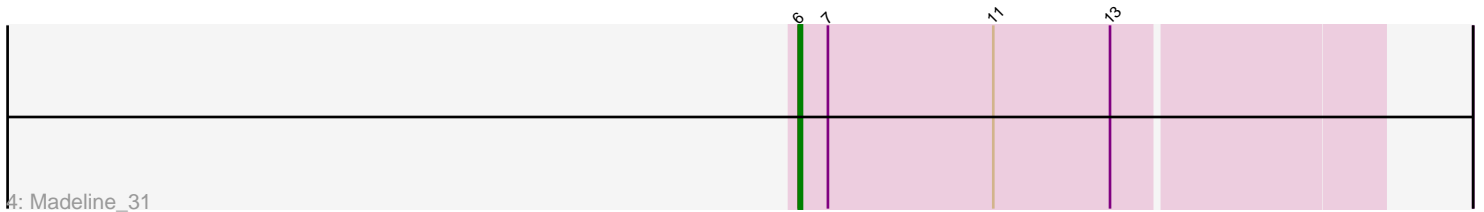
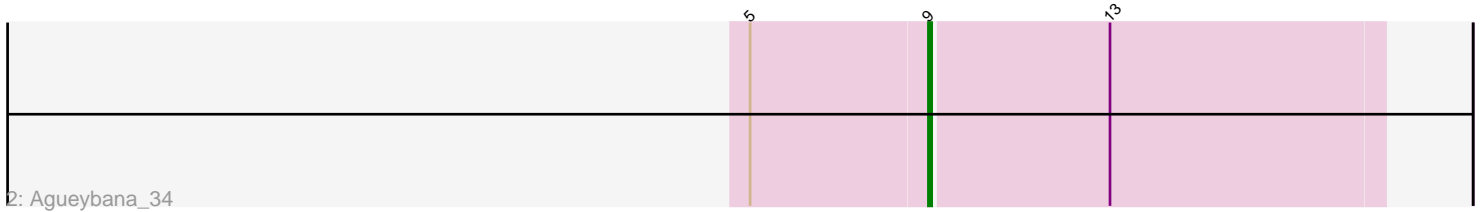
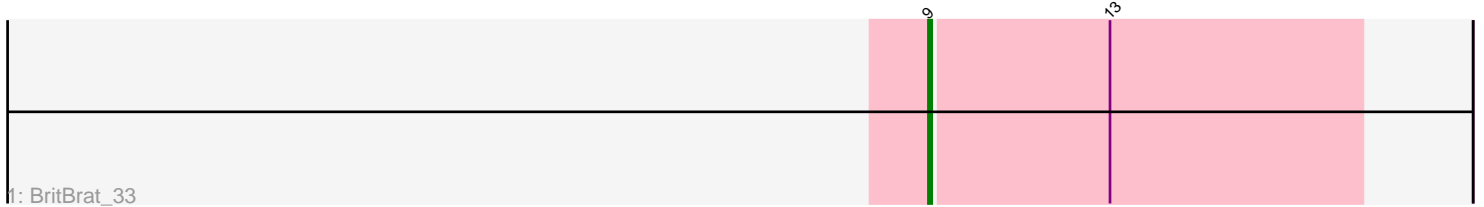


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309288 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309288 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BritBrat\_33
- Track 2 : Agueybana\_34
- Track 3 : ThankyouJordi\_36, WelcomeAyanna\_36
- Track 4 : Madeline\_31
- Track 5 : Ecliptus\_39
- Track 6 : CheeseTouch\_36, Getalong\_39, ODay\_41, BearBQ\_37, Asapag\_38, Phabuloso\_35, Apricot\_37, Phistory\_38, Lutum\_38, Holliday\_37, Kenna\_37, ShawBrad\_37, Frickyeah\_38
- Track 7 : Periwinkle\_41, Leroy\_38

### ***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 13 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apricot\_37, Asapag\_38, BearBQ\_37, CheeseTouch\_36, Frickyeah\_38, Getalong\_39, Holliday\_37, Kenna\_37, Leroy\_38, Lutum\_38, ODay\_41, Periwinkle\_41, Phabuloso\_35, Phistory\_38, ShawBrad\_37,

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

- 

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

- Agueybana\_34, BritBrat\_33, Ecliptus\_39, Madeline\_31, ThankyouJordi\_36, WelcomeAyanna\_36,

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

Start 6:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Madeline\_31 (CZ1),

Start 7:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ecliptus\_39 (DN),

Start 8:

- Found in 15 of 21 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 13 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot\_37 (DN3), Asapag\_38 (DN1), BearBQ\_37 (DN), CheeseTouch\_36 (DN1), Frickyeah\_38 (DN1), Getalong\_39 (DN1), Holliday\_37 (DN1), Kenna\_37 (DN1), Leroy\_38 (DN1), Lutum\_38 (DN1), ODay\_41 (DN), Periwinkle\_41 (DN1), Phabuloso\_35 (DN1), Phistory\_38 (DN1), ShawBrad\_37 (DN1),

Start 9:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana\_34 (CZ1), BritBrat\_33 (CY2),

Start 10:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThankyouJordi\_36 (CZ1), WelcomeAyanna\_36 (CZ1),

**Summary by clusters:**

There are 5 clusters represented in this pham: DN, CY2, CZ1, DN1, DN3,

Info for manual annotations of cluster CY2:

- Start number 9 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ1:

- Start number 6 was manually annotated 1 time for cluster CZ1.
- Start number 9 was manually annotated 1 time for cluster CZ1.
- Start number 10 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster DN:

- Start number 7 was manually annotated 1 time for cluster DN.
- Start number 8 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 8 was manually annotated 10 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 8 was manually annotated 1 time for cluster DN3.

**Gene Information:**

Gene: Agueybana\_34 Start: 28703, Stop: 28840, Start Num: 9

Candidate Starts for Agueybana\_34:

(5, 28649), (Start: 9 @28703 has 2 MA's), (13, 28757),

Gene: Apricot\_37 Start: 28555, Stop: 28686, Start Num: 8

Candidate Starts for Apricot\_37:

(Start: 8 @28555 has 13 MA's), (12, 28591), (13, 28606), (15, 28639),

Gene: Asapag\_38 Start: 30147, Stop: 30278, Start Num: 8

Candidate Starts for Asapag\_38:

(Start: 8 @30147 has 13 MA's), (12, 30183), (13, 30198), (15, 30231),

Gene: BearBQ\_37 Start: 29782, Stop: 29913, Start Num: 8

Candidate Starts for BearBQ\_37:

(Start: 8 @29782 has 13 MA's), (12, 29818), (13, 29833), (15, 29866),

Gene: BritBrat\_33 Start: 29905, Stop: 30036, Start Num: 9

Candidate Starts for BritBrat\_33:

(Start: 9 @29905 has 2 MA's), (13, 29959),

Gene: CheeseTouch\_36 Start: 26709, Stop: 26840, Start Num: 8

Candidate Starts for CheeseTouch\_36:

(Start: 8 @26709 has 13 MA's), (12, 26745), (13, 26760), (15, 26793),

Gene: Ecliptus\_39 Start: 30584, Stop: 30745, Start Num: 7

Candidate Starts for Ecliptus\_39:

(4, 30533), (Start: 7 @30584 has 1 MA's), (13, 30665),

Gene: Frickyeah\_38 Start: 28248, Stop: 28379, Start Num: 8

Candidate Starts for Frickyeah\_38:

(Start: 8 @28248 has 13 MA's), (12, 28284), (13, 28299), (15, 28332),

Gene: Getalong\_39 Start: 30968, Stop: 31099, Start Num: 8

Candidate Starts for Getalong\_39:

(Start: 8 @30968 has 13 MA's), (12, 31004), (13, 31019), (15, 31052),

Gene: Holliday\_37 Start: 28823, Stop: 28954, Start Num: 8

Candidate Starts for Holliday\_37:

(Start: 8 @28823 has 13 MA's), (12, 28859), (13, 28874), (15, 28907),

Gene: Kenna\_37 Start: 29159, Stop: 29290, Start Num: 8

Candidate Starts for Kenna\_37:

(Start: 8 @29159 has 13 MA's), (12, 29195), (13, 29210), (15, 29243),

Gene: Leroy\_38 Start: 30170, Stop: 30328, Start Num: 8

Candidate Starts for Leroy\_38:

(Start: 8 @30170 has 13 MA's), (12, 30206), (13, 30221), (15, 30254), (17, 30317),

Gene: Lutum\_38 Start: 29159, Stop: 29290, Start Num: 8

Candidate Starts for Lutum\_38:

(Start: 8 @29159 has 13 MA's), (12, 29195), (13, 29210), (15, 29243),

Gene: Madeline\_31 Start: 29181, Stop: 29357, Start Num: 6

Candidate Starts for Madeline\_31:

(Start: 6 @29181 has 1 MA's), (Start: 7 @29190 has 1 MA's), (11, 29241), (13, 29277),

Gene: ODay\_41 Start: 30633, Stop: 30764, Start Num: 8

Candidate Starts for ODay\_41:

(Start: 8 @30633 has 13 MA's), (12, 30669), (13, 30684), (15, 30717),

Gene: Periwinkle\_41 Start: 30614, Stop: 30772, Start Num: 8

Candidate Starts for Periwinkle\_41:

(Start: 8 @30614 has 13 MA's), (12, 30650), (13, 30665), (15, 30698), (17, 30761),

Gene: Phabuloso\_35 Start: 28871, Stop: 29002, Start Num: 8

Candidate Starts for Phabuloso\_35:

(Start: 8 @28871 has 13 MA's), (12, 28907), (13, 28922), (15, 28955),

Gene: Phistory\_38 Start: 29511, Stop: 29642, Start Num: 8

Candidate Starts for Phistory\_38:

(Start: 8 @29511 has 13 MA's), (12, 29547), (13, 29562), (15, 29595),

Gene: ShawBrad\_37 Start: 28733, Stop: 28864, Start Num: 8

Candidate Starts for ShawBrad\_37:

(Start: 8 @28733 has 13 MA's), (12, 28769), (13, 28784), (15, 28817),

Gene: ThankyouJordi\_36 Start: 30245, Stop: 30364, Start Num: 10

Candidate Starts for ThankyouJordi\_36:

(1, 29960), (2, 29969), (3, 30053), (Start: 10 @30245 has 2 MA's), (13, 30287), (14, 30314), (15, 30320), (16, 30341),

Gene: WelcomeAyanna\_36 Start: 30392, Stop: 30511, Start Num: 10

Candidate Starts for WelcomeAyanna\_36:

(1, 30107), (2, 30116), (3, 30200), (Start: 10 @30392 has 2 MA's), (13, 30434), (14, 30461), (15, 30467), (16, 30488),