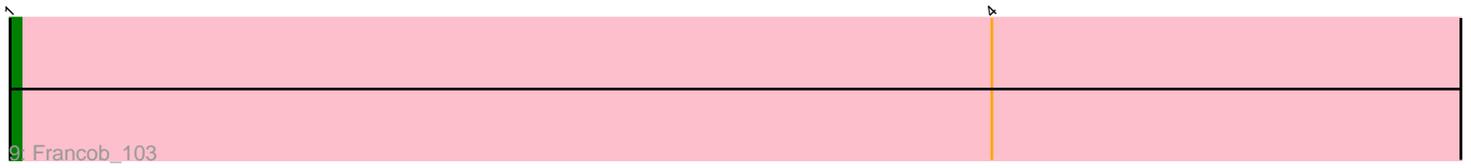
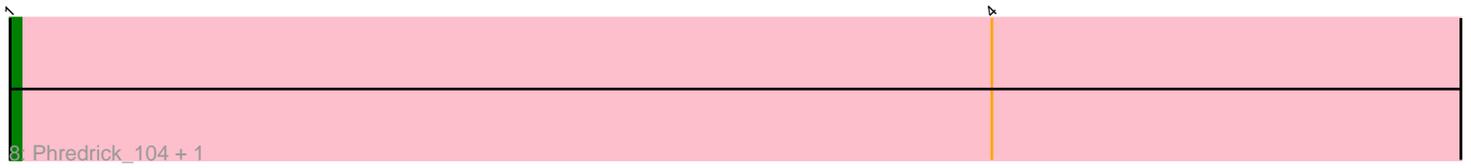
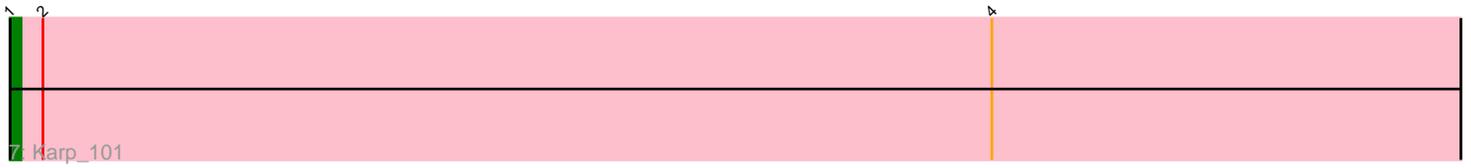
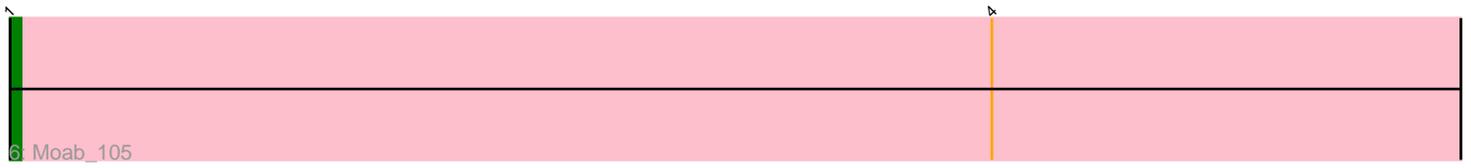
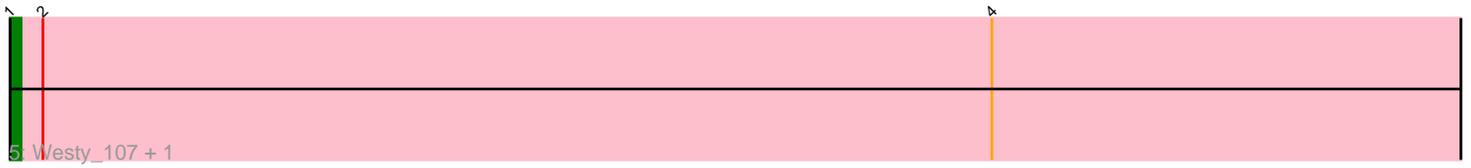
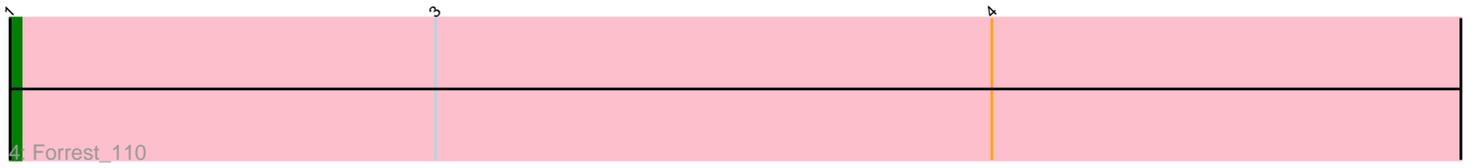
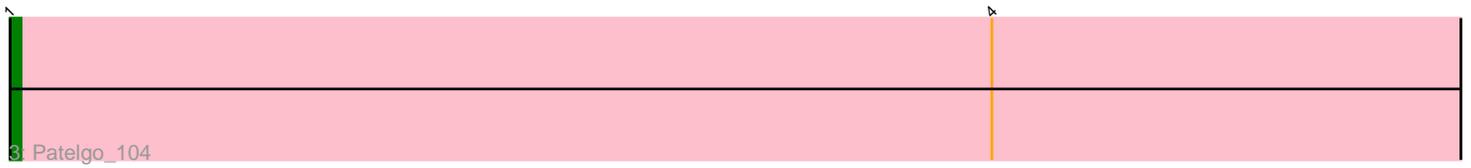
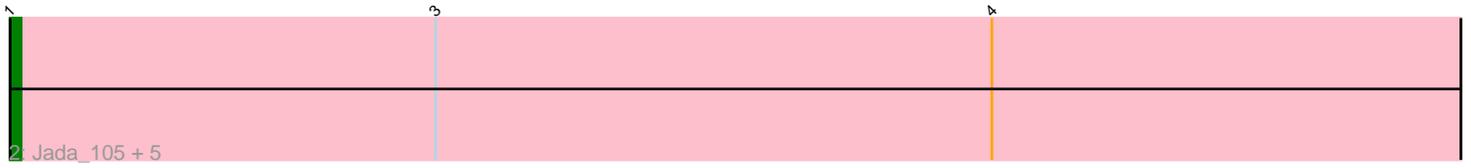
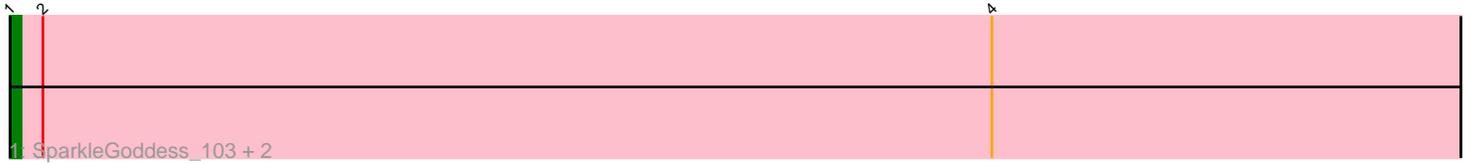


# Zoomed Pham 291602



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 291602 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291602 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : SparkleGoddess\_103, Comrade\_102, Stigma\_102
- Track 2 : Jada\_105, Maupel\_105, DeluluLabubu\_104, Gilson\_105, Emma1919\_106, MeganTheeKilla\_103
- Track 3 : Patelgo\_104
- Track 4 : Forrest\_110
- Track 5 : Westy\_107, Belfort\_105
- Track 6 : Moab\_105
- Track 7 : Karp\_101
- Track 8 : Phredrick\_104, Kenrey\_106
- Track 9 : Francob\_103

### ***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 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_105, Comrade\_102, DeluluLabubu\_104, Emma1919\_106, Forrest\_110, Francob\_103, Gilson\_105, Jada\_105, Karp\_101, Kenrey\_106, Maupel\_105, MeganTheeKilla\_103, Moab\_105, Patelgo\_104, Phredrick\_104, SparkleGoddess\_103, Stigma\_102, Westy\_107,

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 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Belfort\_105 (BK1), Comrade\_102 (BK1), DeluluLabubu\_104 (BK1), Emma1919\_106 (BK1), Forrest\_110 (BK1), Francob\_103 (BK1), Gilson\_105 (BK1), Jada\_105 (BK1), Karp\_101 (BK1), Kenrey\_106 (BK1), Maupel\_105 (BK1), MeganTheeKilla\_103 (BK1), Moab\_105 (BK1), Patelgo\_104 (BK1), Phredrick\_104 (BK1), SparkleGoddess\_103 (BK1), Stigma\_102 (BK1), Westy\_107 (BK1),

### **Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 17 times for cluster BK1.

### **Gene Information:**

Gene: Belfort\_105 Start: 69661, Stop: 70026, Start Num: 1

Candidate Starts for Belfort\_105:

(Start: 1 @69661 has 17 MA's), (2, 69664), (4, 69751), (6, 69871), (7, 69913), (10, 69937), (11, 69952), (12, 69970),

Gene: Comrade\_102 Start: 68978, Stop: 69343, Start Num: 1

Candidate Starts for Comrade\_102:

(Start: 1 @68978 has 17 MA's), (2, 68981), (4, 69068), (6, 69188), (7, 69230), (11, 69269), (12, 69287),

Gene: DeluluLabubu\_104 Start: 67810, Stop: 68175, Start Num: 1

Candidate Starts for DeluluLabubu\_104:

(Start: 1 @67810 has 17 MA's), (3, 67849), (4, 67900), (6, 68020), (7, 68062), (11, 68101), (12, 68119),

Gene: Emma1919\_106 Start: 68431, Stop: 68796, Start Num: 1

Candidate Starts for Emma1919\_106:

(Start: 1 @68431 has 17 MA's), (3, 68470), (4, 68521), (6, 68641), (7, 68683), (11, 68722), (12, 68740),

Gene: Forrest\_110 Start: 70740, Stop: 71105, Start Num: 1

Candidate Starts for Forrest\_110:

(Start: 1 @70740 has 17 MA's), (3, 70779), (4, 70830), (6, 70950), (7, 70992), (8, 70998), (11, 71031), (12, 71049),

Gene: Francob\_103 Start: 68601, Stop: 68966, Start Num: 1

Candidate Starts for Francob\_103:

(Start: 1 @68601 has 17 MA's), (4, 68691), (7, 68853), (8, 68859), (11, 68892), (12, 68910),

Gene: Gilson\_105 Start: 68393, Stop: 68758, Start Num: 1

Candidate Starts for Gilson\_105:

(Start: 1 @68393 has 17 MA's), (3, 68432), (4, 68483), (6, 68603), (7, 68645), (11, 68684), (12, 68702),

Gene: Jada\_105 Start: 68906, Stop: 69271, Start Num: 1

Candidate Starts for Jada\_105:

(Start: 1 @68906 has 17 MA's), (3, 68945), (4, 68996), (6, 69116), (7, 69158), (11, 69197), (12, 69215),

Gene: Karp\_101 Start: 68949, Stop: 69314, Start Num: 1

Candidate Starts for Karp\_101:

(Start: 1 @68949 has 17 MA's), (2, 68952), (4, 69039), (6, 69159), (7, 69201), (9, 69219), (11, 69240), (12, 69258),

Gene: Kenrey\_106 Start: 68621, Stop: 68986, Start Num: 1

Candidate Starts for Kenrey\_106:

(Start: 1 @68621 has 17 MA's), (4, 68711), (5, 68819), (6, 68831), (11, 68912), (12, 68930),

Gene: Maupel\_105 Start: 68393, Stop: 68758, Start Num: 1

Candidate Starts for Maupel\_105:

(Start: 1 @68393 has 17 MA's), (3, 68432), (4, 68483), (6, 68603), (7, 68645), (11, 68684), (12, 68702),

Gene: MeganTheeKilla\_103 Start: 67750, Stop: 68115, Start Num: 1

Candidate Starts for MeganTheeKilla\_103:

(Start: 1 @67750 has 17 MA's), (3, 67789), (4, 67840), (6, 67960), (7, 68002), (11, 68041), (12, 68059),

Gene: Moab\_105 Start: 70915, Stop: 71280, Start Num: 1

Candidate Starts for Moab\_105:

(Start: 1 @70915 has 17 MA's), (4, 71005), (6, 71125), (7, 71167), (8, 71173), (11, 71206), (12, 71224),

Gene: Patelgo\_104 Start: 70001, Stop: 70366, Start Num: 1

Candidate Starts for Patelgo\_104:

(Start: 1 @70001 has 17 MA's), (4, 70091), (6, 70211), (7, 70253), (11, 70292), (12, 70310),

Gene: Phredrick\_104 Start: 67726, Stop: 68091, Start Num: 1

Candidate Starts for Phredrick\_104:

(Start: 1 @67726 has 17 MA's), (4, 67816), (5, 67924), (6, 67936), (11, 68017), (12, 68035),

Gene: SparkleGoddess\_103 Start: 69278, Stop: 69643, Start Num: 1

Candidate Starts for SparkleGoddess\_103:

(Start: 1 @69278 has 17 MA's), (2, 69281), (4, 69368), (6, 69488), (7, 69530), (11, 69569), (12, 69587),

Gene: Stigma\_102 Start: 69286, Stop: 69651, Start Num: 1

Candidate Starts for Stigma\_102:

(Start: 1 @69286 has 17 MA's), (2, 69289), (4, 69376), (6, 69496), (7, 69538), (11, 69577), (12, 69595),

Gene: Westy\_107 Start: 70313, Stop: 70678, Start Num: 1

Candidate Starts for Westy\_107:

(Start: 1 @70313 has 17 MA's), (2, 70316), (4, 70403), (6, 70523), (7, 70565), (10, 70589), (11, 70604), (12, 70622),