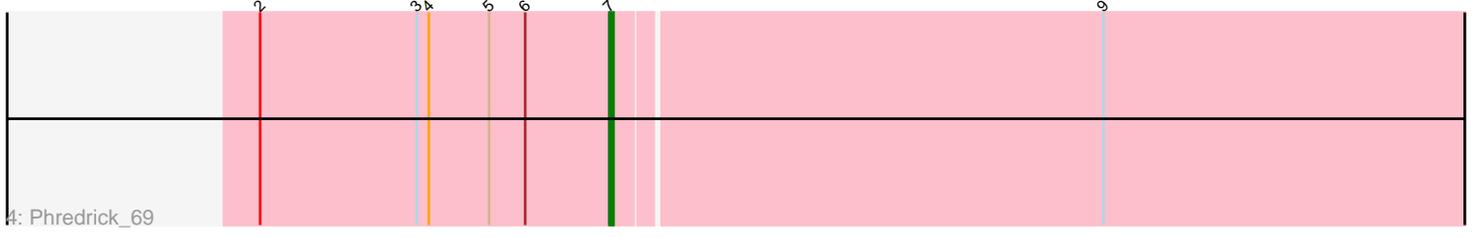
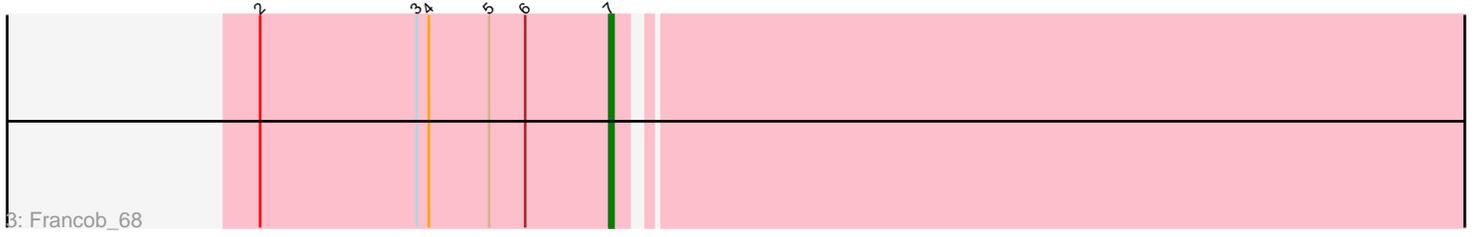
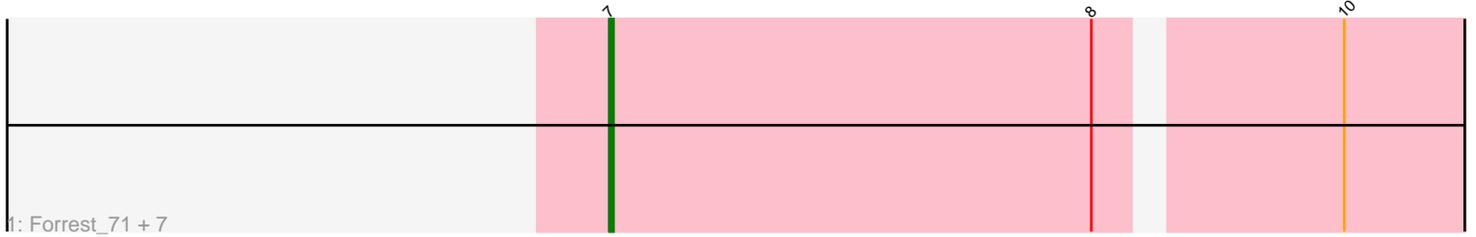


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 282532 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282532 has 17 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Forrest\_71, Emma1919\_71, Jada\_69, Maupel\_69, Gilson\_70, Kenrey\_71, MeganTheeKilla\_68, DeluluLabubu\_68
- Track 2 : SparkleGoddess\_69, Stigma\_68, Karp\_67
- Track 3 : Francob\_68
- Track 4 : Phredrick\_69
- Track 5 : Patelgo\_69
- Track 6 : Westy\_70, Belfort\_71, Comrade\_69

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

The start number called the most often in the published annotations is 7, it was called in 15 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Belfort\_71, Comrade\_69, DeluluLabubu\_68, Emma1919\_71, Forrest\_71, Francob\_68, Gilson\_70, Jada\_69, Karp\_67, Kenrey\_71, Maupel\_69, MeganTheeKilla\_68, Patelgo\_69, Phredrick\_69, SparkleGoddess\_69, Stigma\_68, Westy\_70,

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 7:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 15 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Belfort\_71 (BK1), Comrade\_69 (BK1), DeluluLabubu\_68 (BK1), Emma1919\_71 (BK1), Forrest\_71 (BK1), Francob\_68 (BK1), Gilson\_70 (BK1), Jada\_69 (BK1), Karp\_67 (BK1), Kenrey\_71 (BK1), Maupel\_69

(BK1), MeganTheeKilla\_68 (BK1), Patelgo\_69 (BK1), Phredrick\_69 (BK1), SparkleGoddess\_69 (BK1), Stigma\_68 (BK1), Westy\_70 (BK1),

### **Summary by clusters:**

There is one cluster represented in this pham: BK1

Info for manual annotations of cluster BK1:

•Start number 7 was manually annotated 15 times for cluster BK1.

### **Gene Information:**

Gene: Belfort\_71 Start: 56221, Stop: 56436, Start Num: 7

Candidate Starts for Belfort\_71:

(1, 56101), (3, 56173), (4, 56176), (5, 56191), (6, 56200), (Start: 7 @56221 has 15 MA's),

Gene: Comrade\_69 Start: 55837, Stop: 56052, Start Num: 7

Candidate Starts for Comrade\_69:

(1, 55717), (3, 55789), (4, 55792), (5, 55807), (6, 55816), (Start: 7 @55837 has 15 MA's),

Gene: DeluluLabubu\_68 Start: 53875, Stop: 54078, Start Num: 7

Candidate Starts for DeluluLabubu\_68:

(Start: 7 @53875 has 15 MA's), (8, 53995), (10, 54049),

Gene: Emma1919\_71 Start: 54549, Stop: 54752, Start Num: 7

Candidate Starts for Emma1919\_71:

(Start: 7 @54549 has 15 MA's), (8, 54669), (10, 54723),

Gene: Forrest\_71 Start: 55255, Stop: 55458, Start Num: 7

Candidate Starts for Forrest\_71:

(Start: 7 @55255 has 15 MA's), (8, 55375), (10, 55429),

Gene: Francob\_68 Start: 54612, Stop: 54821, Start Num: 7

Candidate Starts for Francob\_68:

(2, 54525), (3, 54564), (4, 54567), (5, 54582), (6, 54591), (Start: 7 @54612 has 15 MA's),

Gene: Gilson\_70 Start: 54511, Stop: 54714, Start Num: 7

Candidate Starts for Gilson\_70:

(Start: 7 @54511 has 15 MA's), (8, 54631), (10, 54685),

Gene: Jada\_69 Start: 54437, Stop: 54640, Start Num: 7

Candidate Starts for Jada\_69:

(Start: 7 @54437 has 15 MA's), (8, 54557), (10, 54611),

Gene: Karp\_67 Start: 55436, Stop: 55645, Start Num: 7

Candidate Starts for Karp\_67:

(1, 55316), (3, 55388), (4, 55391), (5, 55406), (6, 55415), (Start: 7 @55436 has 15 MA's), (9, 55553),

Gene: Kenrey\_71 Start: 54693, Stop: 54896, Start Num: 7

Candidate Starts for Kenrey\_71:

(Start: 7 @54693 has 15 MA's), (8, 54813), (10, 54867),

Gene: Maupel\_69 Start: 54511, Stop: 54714, Start Num: 7

Candidate Starts for Maupel\_69:

(Start: 7 @54511 has 15 MA's), (8, 54631), (10, 54685),

Gene: MeganTheeKilla\_68 Start: 53872, Stop: 54075, Start Num: 7

Candidate Starts for MeganTheeKilla\_68:

(Start: 7 @53872 has 15 MA's), (8, 53992), (10, 54046),

Gene: Patelgo\_69 Start: 55899, Stop: 56108, Start Num: 7

Candidate Starts for Patelgo\_69:

(3, 55851), (5, 55869), (6, 55878), (Start: 7 @55899 has 15 MA's), (9, 56016),

Gene: Phredrick\_69 Start: 53764, Stop: 53976, Start Num: 7

Candidate Starts for Phredrick\_69:

(2, 53677), (3, 53716), (4, 53719), (5, 53734), (6, 53743), (Start: 7 @53764 has 15 MA's), (9, 53884),

Gene: SparkleGoddess\_69 Start: 55838, Stop: 56053, Start Num: 7

Candidate Starts for SparkleGoddess\_69:

(1, 55718), (3, 55790), (4, 55793), (5, 55808), (6, 55817), (Start: 7 @55838 has 15 MA's), (9, 55961),

Gene: Stigma\_68 Start: 55852, Stop: 56061, Start Num: 7

Candidate Starts for Stigma\_68:

(1, 55732), (3, 55804), (4, 55807), (5, 55822), (6, 55831), (Start: 7 @55852 has 15 MA's), (9, 55969),

Gene: Westy\_70 Start: 55838, Stop: 56053, Start Num: 7

Candidate Starts for Westy\_70:

(1, 55718), (3, 55790), (4, 55793), (5, 55808), (6, 55817), (Start: 7 @55838 has 15 MA's),