



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 309307 Report

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

Pham number 309307 has 19 members, 11 are drafts.

Phages represented in each track:

- Track 1 : EmoNemo\_7, Schomber\_7, Argena\_7, MintFritos\_7, Toneprano\_7, Hanem\_7, Chidiebere\_7, Kabocha\_7, Twin\_7, Amoonguss\_7, Pakusa\_7, Mikronejon\_7, Alok\_7, Farrylious\_7
- Track 2 : ChisanaKitsune\_7
- Track 3 : Oogie\_7, Beted\_7, Lenoshki\_7
- Track 4 : Gray\_7

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

The start number called the most often in the published annotations is 2, it was called in 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alok\_7, Amoonguss\_7, Argena\_7, Beted\_7, Chidiebere\_7, ChisanaKitsune\_7, EmoNemo\_7, Farrylious\_7, Gray\_7, Hanem\_7, Kabocha\_7, Lenoshki\_7, Mikronejon\_7, MintFritos\_7, Oogie\_7, Pakusa\_7, Schomber\_7, Toneprano\_7, Twin\_7,

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 2:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 8 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alok\_7 (DQ), Amoonguss\_7 (DQ), Argena\_7 (DQ), Beted\_7 (DQ), Chidiebere\_7 (DQ), ChisanaKitsune\_7 (DQ), EmoNemo\_7 (DQ), Farrylious\_7 (DQ), Gray\_7 (DQ), Hanem\_7 (DQ), Kabocha\_7 (DQ), Lenoshki\_7 (DQ), Mikronejon\_7 (DQ), MintFritos\_7 (DQ), Oogie\_7 (DQ),

Pakusa\_7 (DQ), Schomber\_7 (DQ), Toneprano\_7 (DQ), Twin\_7 (DQ),

### **Summary by clusters:**

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

•Start number 2 was manually annotated 8 times for cluster DQ.

### **Gene Information:**

Gene: Aloki\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Aloki\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Amoonguss\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Amoonguss\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Argena\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Argena\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Beted\_7 Start: 3677, Stop: 3826, Start Num: 2

Candidate Starts for Beted\_7:

(1, 3620), (Start: 2 @3677 has 8 MA's), (3, 3704), (4, 3716), (6, 3764), (7, 3770), (8, 3815),

Gene: Chidiebere\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Chidiebere\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: ChisanaKitsune\_7 Start: 3674, Stop: 3823, Start Num: 2

Candidate Starts for ChisanaKitsune\_7:

(1, 3617), (Start: 2 @3674 has 8 MA's), (3, 3701), (4, 3713), (6, 3761), (8, 3812),

Gene: EmoNemo\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for EmoNemo\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Farrylious\_7 Start: 3960, Stop: 4109, Start Num: 2

Candidate Starts for Farrylious\_7:

(Start: 2 @3960 has 8 MA's), (3, 3987), (4, 3999), (5, 4029), (6, 4047), (7, 4053), (8, 4098),

Gene: Gray\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Gray\_7:

(1, 3879), (Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (6, 4023), (7, 4029), (8, 4074),

Gene: Hanem\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Hanem\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Kabocha\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Kabocha\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Lenoshki\_7 Start: 3677, Stop: 3826, Start Num: 2

Candidate Starts for Lenoshki\_7:

(1, 3620), (Start: 2 @3677 has 8 MA's), (3, 3704), (4, 3716), (6, 3764), (7, 3770), (8, 3815),

Gene: Mikronejon\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Mikronejon\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: MintFritos\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for MintFritos\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Oogie\_7 Start: 3677, Stop: 3826, Start Num: 2

Candidate Starts for Oogie\_7:

(1, 3620), (Start: 2 @3677 has 8 MA's), (3, 3704), (4, 3716), (6, 3764), (7, 3770), (8, 3815),

Gene: Pakusa\_7 Start: 3678, Stop: 3827, Start Num: 2

Candidate Starts for Pakusa\_7:

(Start: 2 @3678 has 8 MA's), (3, 3705), (4, 3717), (5, 3747), (6, 3765), (7, 3771), (8, 3816),

Gene: Schomber\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Schomber\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Toneprano\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Toneprano\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),

Gene: Twin\_7 Start: 3936, Stop: 4085, Start Num: 2

Candidate Starts for Twin\_7:

(Start: 2 @3936 has 8 MA's), (3, 3963), (4, 3975), (5, 4005), (6, 4023), (7, 4029), (8, 4074),