



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 249375 Report

This analysis was run 02/07/26 on database version 634.

Pham number 249375 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Berka\_21
- Track 2 : Schism\_39, Ryan\_37, Cole\_35, Nandita\_37, Guinevere\_37, Popper\_35, Yonex\_37, GoodLuckBabe\_37
- Track 3 : Donatella\_36
- Track 4 : AllBusiness\_34
- Track 5 : Elesar\_32
- Track 6 : Elesar\_33

### ***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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AllBusiness\_34, Berka\_21, Cole\_35, Donatella\_36, Elesar\_32, Elesar\_33, GoodLuckBabe\_37, Guinevere\_37, Nandita\_37, Popper\_35, Ryan\_37, Schism\_39, Yonex\_37,

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 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AllBusiness\_34 (FF), Berka\_21 (FE), Cole\_35 (FF), Donatella\_36 (FF), Elesar\_32 (FF), Elesar\_33 (FF), GoodLuckBabe\_37 (FF), Guinevere\_37 (FF), Nandita\_37 (FF), Popper\_35 (FF), Ryan\_37 (FF), Schism\_39 (FF), Yonex\_37 (FF),

## **Summary by clusters:**

There are 2 clusters represented in this pham: FE, FF,

Info for manual annotations of cluster FE:

- Start number 2 was manually annotated 1 time for cluster FE.

Info for manual annotations of cluster FF:

- Start number 2 was manually annotated 10 times for cluster FF.

## ***Gene Information:***

Gene: AllBusiness\_34 Start: 28419, Stop: 28168, Start Num: 2

Candidate Starts for AllBusiness\_34:

(Start: 2 @28419 has 11 MA's), (5, 28359), (8, 28305),

Gene: Berka\_21 Start: 12933, Stop: 12670, Start Num: 2

Candidate Starts for Berka\_21:

(1, 12969), (Start: 2 @12933 has 11 MA's), (3, 12927), (4, 12879), (6, 12846), (7, 12837), (9, 12804), (10, 12780), (11, 12750),

Gene: Cole\_35 Start: 27282, Stop: 27037, Start Num: 2

Candidate Starts for Cole\_35:

(Start: 2 @27282 has 11 MA's), (8, 27168), (12, 27081),

Gene: Donatella\_36 Start: 27746, Stop: 27501, Start Num: 2

Candidate Starts for Donatella\_36:

(Start: 2 @27746 has 11 MA's), (8, 27632),

Gene: Elesar\_32 Start: 27954, Stop: 27709, Start Num: 2

Candidate Starts for Elesar\_32:

(Start: 2 @27954 has 11 MA's), (13, 27759), (14, 27750), (15, 27717),

Gene: Elesar\_33 Start: 28190, Stop: 27951, Start Num: 2

Candidate Starts for Elesar\_33:

(Start: 2 @28190 has 11 MA's), (7, 28094), (8, 28076), (12, 27989),

Gene: GoodLuckBabe\_37 Start: 27864, Stop: 27619, Start Num: 2

Candidate Starts for GoodLuckBabe\_37:

(Start: 2 @27864 has 11 MA's), (8, 27750), (12, 27663),

Gene: Guinevere\_37 Start: 27454, Stop: 27209, Start Num: 2

Candidate Starts for Guinevere\_37:

(Start: 2 @27454 has 11 MA's), (8, 27340), (12, 27253),

Gene: Nandita\_37 Start: 27454, Stop: 27209, Start Num: 2

Candidate Starts for Nandita\_37:

(Start: 2 @27454 has 11 MA's), (8, 27340), (12, 27253),

Gene: Popper\_35 Start: 27366, Stop: 27121, Start Num: 2

Candidate Starts for Popper\_35:

(Start: 2 @27366 has 11 MA's), (8, 27252), (12, 27165),

Gene: Ryan\_37 Start: 28065, Stop: 27820, Start Num: 2

Candidate Starts for Ryan\_37:

(Start: 2 @28065 has 11 MA's), (8, 27951), (12, 27864),

Gene: Schism\_39 Start: 28244, Stop: 27999, Start Num: 2

Candidate Starts for Schism\_39:

(Start: 2 @28244 has 11 MA's), (8, 28130), (12, 28043),

Gene: Yonex\_37 Start: 28065, Stop: 27820, Start Num: 2

Candidate Starts for Yonex\_37:

(Start: 2 @28065 has 11 MA's), (8, 27951), (12, 27864),