



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 291543 Report

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

Pham number 291543 has 21 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Uzumaki\_46, GantcherGoblin\_47, Phaila\_51, Stardrop\_52, Argan\_47, PoeMe\_48, Navi1117\_50, Mardi\_48, Tenney120\_49, Altjira\_50, KevinMinion\_48
- Track 2 : Barbonzobean\_53, Biscute\_48, Renaldo\_53, Kinny\_51, Muglass\_50, Lewando\_50
- Track 3 : Leathea\_48
- Track 4 : Zeina\_49
- Track 5 : BarbieDoll\_52
- Track 6 : TrixiePhattel\_49

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

Genes that call this "Most Annotated" start:

- Altjira\_50, Argan\_47, BarbieDoll\_52, Barbonzobean\_53, Biscute\_48, GantcherGoblin\_47, KevinMinion\_48, Kinny\_51, Leathea\_48, Lewando\_50, Mardi\_48, Muglass\_50, Navi1117\_50, Phaila\_51, PoeMe\_48, Renaldo\_53, Stardrop\_52, Tenney120\_49, Uzumaki\_46, Zeina\_49,

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

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

- TrixiePhattel\_49,

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

Start 1:

- Found in 20 of 21 ( 95.2% ) of genes in pham
- Manual Annotations of this start: 10 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altjira\_50 (AU6), Argan\_47 (AU6), BarbieDoll\_52 (AU6), Barbonzobean\_53 (AU6), Biscute\_48 (AU6),

GantcherGoblin\_47 (AU6), KevinMinion\_48 (AU6), Kinny\_51 (AU6), Leathea\_48 (AU6), Lewando\_50 (AU6), Mardi\_48 (AU6), Muglass\_50 (AU6), Navi1117\_50 (AU6), Phaila\_51 (AU6), PoeMe\_48 (AU6), Renaldo\_53 (AU6), Stardrop\_52 (AU6), Tenney120\_49 (AU6), Uzumaki\_46 (AU6), Zeina\_49 (AU6),

Start 2:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TrixiePhattel\_49 (AU6),

### **Summary by clusters:**

There is one cluster represented in this pham: AU6

Info for manual annotations of cluster AU6:

- Start number 1 was manually annotated 10 times for cluster AU6.
- Start number 2 was manually annotated 1 time for cluster AU6.

### **Gene Information:**

Gene: Altjira\_50 Start: 34098, Stop: 34439, Start Num: 1

Candidate Starts for Altjira\_50:

(Start: 1 @34098 has 10 MA's), (3, 34140), (4, 34341), (5, 34344), (8, 34374),

Gene: Argan\_47 Start: 32696, Stop: 33043, Start Num: 1

Candidate Starts for Argan\_47:

(Start: 1 @32696 has 10 MA's), (3, 32738), (4, 32939), (5, 32942), (8, 32972),

Gene: BarbieDoll\_52 Start: 34320, Stop: 34643, Start Num: 1

Candidate Starts for BarbieDoll\_52:

(Start: 1 @34320 has 10 MA's), (4, 34560), (6, 34569),

Gene: Barbonzobean\_53 Start: 34363, Stop: 34683, Start Num: 1

Candidate Starts for Barbonzobean\_53:

(Start: 1 @34363 has 10 MA's), (6, 34612),

Gene: Biscute\_48 Start: 33972, Stop: 34295, Start Num: 1

Candidate Starts for Biscute\_48:

(Start: 1 @33972 has 10 MA's), (6, 34221),

Gene: GantcherGoblin\_47 Start: 32895, Stop: 33227, Start Num: 1

Candidate Starts for GantcherGoblin\_47:

(Start: 1 @32895 has 10 MA's), (3, 32937), (4, 33138), (5, 33141), (8, 33171),

Gene: KevinMinion\_48 Start: 33653, Stop: 33994, Start Num: 1

Candidate Starts for KevinMinion\_48:

(Start: 1 @33653 has 10 MA's), (3, 33695), (4, 33896), (5, 33899), (8, 33929),

Gene: Kinny\_51 Start: 34815, Stop: 35138, Start Num: 1

Candidate Starts for Kinny\_51:

(Start: 1 @34815 has 10 MA's), (6, 35064),

Gene: Leathea\_48 Start: 32547, Stop: 32861, Start Num: 1

Candidate Starts for Leathea\_48:

(Start: 1 @32547 has 10 MA's), (3, 32586), (4, 32787),

Gene: Lewando\_50 Start: 34105, Stop: 34425, Start Num: 1

Candidate Starts for Lewando\_50:

(Start: 1 @34105 has 10 MA's), (6, 34354),

Gene: Mardi\_48 Start: 32986, Stop: 33327, Start Num: 1

Candidate Starts for Mardi\_48:

(Start: 1 @32986 has 10 MA's), (3, 33028), (4, 33229), (5, 33232), (8, 33262),

Gene: Muglass\_50 Start: 33876, Stop: 34199, Start Num: 1

Candidate Starts for Muglass\_50:

(Start: 1 @33876 has 10 MA's), (6, 34125),

Gene: Navi1117\_50 Start: 33598, Stop: 33939, Start Num: 1

Candidate Starts for Navi1117\_50:

(Start: 1 @33598 has 10 MA's), (3, 33640), (4, 33841), (5, 33844), (8, 33874),

Gene: Phaila\_51 Start: 32979, Stop: 33320, Start Num: 1

Candidate Starts for Phaila\_51:

(Start: 1 @32979 has 10 MA's), (3, 33021), (4, 33222), (5, 33225), (8, 33255),

Gene: PoeMe\_48 Start: 33153, Stop: 33494, Start Num: 1

Candidate Starts for PoeMe\_48:

(Start: 1 @33153 has 10 MA's), (3, 33195), (4, 33396), (5, 33399), (8, 33429),

Gene: Renaldo\_53 Start: 34414, Stop: 34734, Start Num: 1

Candidate Starts for Renaldo\_53:

(Start: 1 @34414 has 10 MA's), (6, 34663),

Gene: Stardrop\_52 Start: 33346, Stop: 33693, Start Num: 1

Candidate Starts for Stardrop\_52:

(Start: 1 @33346 has 10 MA's), (3, 33388), (4, 33589), (5, 33592), (8, 33622),

Gene: Tenney120\_49 Start: 33195, Stop: 33536, Start Num: 1

Candidate Starts for Tenney120\_49:

(Start: 1 @33195 has 10 MA's), (3, 33237), (4, 33438), (5, 33441), (8, 33471),

Gene: TrixiePhattel\_49 Start: 32839, Stop: 33141, Start Num: 2

Candidate Starts for TrixiePhattel\_49:

(Start: 2 @32839 has 1 MA's), (7, 33088),

Gene: Uzumaki\_46 Start: 32889, Stop: 33236, Start Num: 1

Candidate Starts for Uzumaki\_46:

(Start: 1 @32889 has 10 MA's), (3, 32931), (4, 33132), (5, 33135), (8, 33165),

Gene: Zeina\_49 Start: 33207, Stop: 33545, Start Num: 1

Candidate Starts for Zeina\_49:

(Start: 1 @33207 has 10 MA's), (3, 33249), (4, 33450), (5, 33453),

