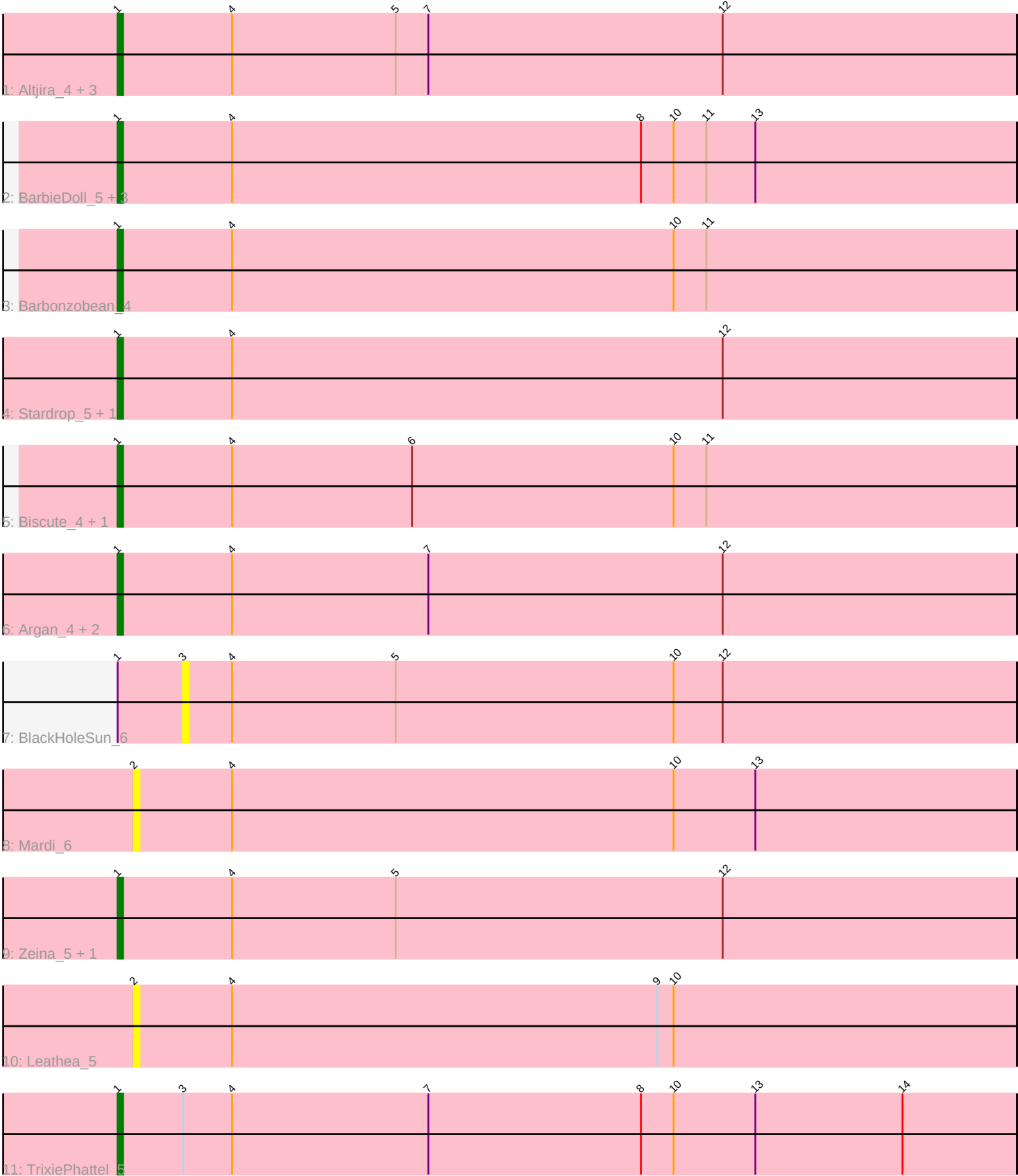




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 317963 Report

This analysis was run 09/05/26 on database version 662.

Pham number 317963 has 22 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Altjira\_4, Uzumaki\_5, Tenney120\_5, KevinMinion\_4
- Track 2 : BarbieDoll\_5, Renaldo\_6, Kinny\_5, Lewando\_5
- Track 3 : Barbonzobean\_4
- Track 4 : Stardrop\_5, PoeMe\_5
- Track 5 : Biscute\_4, Muglass\_4
- Track 6 : Argan\_4, Navi1117\_5, Phaila\_5
- Track 7 : BlackHoleSun\_6
- Track 8 : Mardi\_6
- Track 9 : Zeina\_5, GantcherGoblin\_4
- Track 10 : Leathea\_5
- Track 11 : TrixiePhattel\_5

### ***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 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altjira\_4, Argan\_4, BarbieDoll\_5, Barbonzobean\_4, Biscute\_4, GantcherGoblin\_4, KevinMinion\_4, Kinny\_5, Lewando\_5, Muglass\_4, Navi1117\_5, Phaila\_5, PoeMe\_5, Renaldo\_6, Stardrop\_5, Tenney120\_5, TrixiePhattel\_5, Uzumaki\_5, Zeina\_5,

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

- BlackHoleSun\_6,

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

- Leathea\_5, Mardi\_6,

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

Start 1:

- Found in 20 of 22 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 95.0% of time when present

- Phage (with cluster) where this start called: Altjira\_4 (AU6), Argan\_4 (AU6), BarbieDoll\_5 (AU6), Barbonzobean\_4 (AU6), Biscute\_4 (AU6), GantcherGoblin\_4 (AU6), KevinMinion\_4 (AU6), Kinny\_5 (AU6), Lewando\_5 (AU6), Muglass\_4 (AU6), Navi1117\_5 (AU6), Phaila\_5 (AU6), PoeMe\_5 (AU6), Renaldo\_6 (AU6), Stardrop\_5 (AU6), Tenney120\_5 (AU6), TrixiePhattel\_5 (AU6), Uzumaki\_5 (AU6), Zeina\_5 (AU6),

Start 2:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Leathea\_5 (AU6), Mardi\_6 (AU6),

Start 3:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BlackHoleSun\_6 (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 16 times for cluster AU6.

### Gene Information:

Gene: Altjira\_4 Start: 2404, Stop: 2568, Start Num: 1

Candidate Starts for Altjira\_4:

(Start: 1 @2404 has 16 MA's), (4, 2425), (5, 2455), (7, 2461), (12, 2515),

Gene: Argan\_4 Start: 2218, Stop: 2382, Start Num: 1

Candidate Starts for Argan\_4:

(Start: 1 @2218 has 16 MA's), (4, 2239), (7, 2275), (12, 2329),

Gene: BarbieDoll\_5 Start: 2511, Stop: 2675, Start Num: 1

Candidate Starts for BarbieDoll\_5:

(Start: 1 @2511 has 16 MA's), (4, 2532), (8, 2607), (10, 2613), (11, 2619), (13, 2628),

Gene: Barbonzobean\_4 Start: 2207, Stop: 2371, Start Num: 1

Candidate Starts for Barbonzobean\_4:

(Start: 1 @2207 has 16 MA's), (4, 2228), (10, 2309), (11, 2315),

Gene: Biscute\_4 Start: 2207, Stop: 2371, Start Num: 1

Candidate Starts for Biscute\_4:

(Start: 1 @2207 has 16 MA's), (4, 2228), (6, 2261), (10, 2309), (11, 2315),

Gene: BlackHoleSun\_6 Start: 2597, Stop: 2749, Start Num: 3

Candidate Starts for BlackHoleSun\_6:

(Start: 1 @2585 has 16 MA's), (3, 2597), (4, 2606), (5, 2636), (10, 2687), (12, 2696),

Gene: GantcherGoblin\_4 Start: 2218, Stop: 2382, Start Num: 1

Candidate Starts for GantcherGoblin\_4:

(Start: 1 @2218 has 16 MA's), (4, 2239), (5, 2269), (12, 2329),

Gene: KevinMinion\_4 Start: 2374, Stop: 2538, Start Num: 1

Candidate Starts for KevinMinion\_4:

(Start: 1 @2374 has 16 MA's), (4, 2395), (5, 2425), (7, 2431), (12, 2485),

Gene: Kinny\_5 Start: 2511, Stop: 2675, Start Num: 1

Candidate Starts for Kinny\_5:

(Start: 1 @2511 has 16 MA's), (4, 2532), (8, 2607), (10, 2613), (11, 2619), (13, 2628),

Gene: Leathea\_5 Start: 2401, Stop: 2562, Start Num: 2

Candidate Starts for Leathea\_5:

(2, 2401), (4, 2419), (9, 2497), (10, 2500),

Gene: Lewando\_5 Start: 2510, Stop: 2674, Start Num: 1

Candidate Starts for Lewando\_5:

(Start: 1 @2510 has 16 MA's), (4, 2531), (8, 2606), (10, 2612), (11, 2618), (13, 2627),

Gene: Mardi\_6 Start: 2522, Stop: 2683, Start Num: 2

Candidate Starts for Mardi\_6:

(2, 2522), (4, 2540), (10, 2621), (13, 2636),

Gene: Muglass\_4 Start: 2207, Stop: 2371, Start Num: 1

Candidate Starts for Muglass\_4:

(Start: 1 @2207 has 16 MA's), (4, 2228), (6, 2261), (10, 2309), (11, 2315),

Gene: Navi1117\_5 Start: 2613, Stop: 2777, Start Num: 1

Candidate Starts for Navi1117\_5:

(Start: 1 @2613 has 16 MA's), (4, 2634), (7, 2670), (12, 2724),

Gene: Phaila\_5 Start: 2487, Stop: 2651, Start Num: 1

Candidate Starts for Phaila\_5:

(Start: 1 @2487 has 16 MA's), (4, 2508), (7, 2544), (12, 2598),

Gene: PoeMe\_5 Start: 2521, Stop: 2685, Start Num: 1

Candidate Starts for PoeMe\_5:

(Start: 1 @2521 has 16 MA's), (4, 2542), (12, 2632),

Gene: Renaldo\_6 Start: 2511, Stop: 2675, Start Num: 1

Candidate Starts for Renaldo\_6:

(Start: 1 @2511 has 16 MA's), (4, 2532), (8, 2607), (10, 2613), (11, 2619), (13, 2628),

Gene: Stardrop\_5 Start: 2521, Stop: 2685, Start Num: 1

Candidate Starts for Stardrop\_5:

(Start: 1 @2521 has 16 MA's), (4, 2542), (12, 2632),

Gene: Tenney120\_5 Start: 2501, Stop: 2665, Start Num: 1

Candidate Starts for Tenney120\_5:

(Start: 1 @2501 has 16 MA's), (4, 2522), (5, 2552), (7, 2558), (12, 2612),

Gene: TrixiePhattel\_5 Start: 2448, Stop: 2612, Start Num: 1

Candidate Starts for TrixiePhattel\_5:

(Start: 1 @2448 has 16 MA's), (3, 2460), (4, 2469), (7, 2505), (8, 2544), (10, 2550), (13, 2565), (14, 2592),

Gene: Uzumaki\_5 Start: 2501, Stop: 2665, Start Num: 1

Candidate Starts for Uzumaki\_5:

(Start: 1 @2501 has 16 MA's), (4, 2522), (5, 2552), (7, 2558), (12, 2612),

Gene: Zeina\_5 Start: 2511, Stop: 2675, Start Num: 1

Candidate Starts for Zeina\_5:

(Start: 1 @2511 has 16 MA's), (4, 2532), (5, 2562), (12, 2622),