



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 303568 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303568 has 31 members, 1 are drafts.

Phages represented in each track:

- Track 1 : CosmicSans\_2, UhSalsa\_2, Alpacados\_2, Rhodalysa\_2, Bradshaw\_2, Harlequin\_2, RER2\_65, Swann\_2, Rasputin\_2, Erik\_2, Yoncess\_2, Espica\_2, Nancinator\_2, Bryce\_2, Hiro\_2, StCroix\_2, PhailMary\_2, Phrankenstein\_2, Takoda\_2, TWAMP\_2, Natosaleda\_2, Lillie\_2, AppleCloud\_1, Krishelle\_2, Shuman\_2, Naiad\_2, Gollum\_2, RexFury\_2
- Track 2 : Jester\_2, Belenaria\_2
- Track 3 : Bonanza\_2

### ***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 27 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alpacados\_2, AppleCloud\_1, Bradshaw\_2, Bryce\_2, CosmicSans\_2, Erik\_2, Espica\_2, Gollum\_2, Harlequin\_2, Hiro\_2, Krishelle\_2, Lillie\_2, Naiad\_2, Nancinator\_2, Natosaleda\_2, PhailMary\_2, Phrankenstein\_2, RER2\_65, Rasputin\_2, RexFury\_2, Rhodalysa\_2, Shuman\_2, StCroix\_2, Swann\_2, TWAMP\_2, Takoda\_2, UhSalsa\_2, Yoncess\_2,

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

- Belenaria\_2, Bonanza\_2, Jester\_2,

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

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

Start 1:

- Found in 31 of 31 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 3.2% of time when present
- Phage (with cluster) where this start called: Bonanza\_2 (CA),

#### Start 2:

- Found in 31 of 31 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 27 of 30
- Called 90.3% of time when present
- Phage (with cluster) where this start called: Alpacados\_2 (CA), AppleCloud\_1 (CA), Bradshaw\_2 (CA), Bryce\_2 (CA), CosmicSans\_2 (CA), Erik\_2 (CA), Espica\_2 (CA), Gollum\_2 (CA), Harlequin\_2 (CA), Hiro\_2 (CA), Krishelle\_2 (CA), Lillie\_2 (CA), Naiad\_2 (CA), Nancinator\_2 (CA), Natosaleda\_2 (CA), PhailMary\_2 (CA), Phrankenstien\_2 (CA), RER2\_65 (CA), Rasputin\_2 (CA), RexFury\_2 (CA), Rhodalysa\_2 (CA), Shuman\_2 (CA), StCroix\_2 (CA), Swann\_2 (CA), TWAMP\_2 (CA), Takoda\_2 (CA), UhSalsa\_2 (CA), Yoncess\_2 (CA),

#### Start 3:

- Found in 31 of 31 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 6.5% of time when present
- Phage (with cluster) where this start called: Belenaria\_2 (CA), Jester\_2 (CA),

### Summary by clusters:

There is one cluster represented in this pham: CA

Info for manual annotations of cluster CA:

- Start number 1 was manually annotated 1 time for cluster CA.
- Start number 2 was manually annotated 27 times for cluster CA.
- Start number 3 was manually annotated 2 times for cluster CA.

### **Gene Information:**

Gene: Alpacados\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Alpacados\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: AppleCloud\_1 Start: 680, Stop: 513, Start Num: 2

Candidate Starts for AppleCloud\_1:

(Start: 1 @707 has 1 MA's), (Start: 2 @680 has 27 MA's), (Start: 3 @674 has 2 MA's), (4, 641), (5, 620),

Gene: Belenaria\_2 Start: 879, Stop: 718, Start Num: 3

Candidate Starts for Belenaria\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Bonanza\_2 Start: 912, Stop: 718, Start Num: 1

Candidate Starts for Bonanza\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Bradshaw\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Bradshaw\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Bryce\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Bryce\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: CosmicSans\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for CosmicSans\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Erik\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Erik\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Espica\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Espica\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Gollum\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Gollum\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Harlequin\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Harlequin\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Hiro\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Hiro\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Jester\_2 Start: 879, Stop: 718, Start Num: 3

Candidate Starts for Jester\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Krishelle\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Krishelle\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Lillie\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Lillie\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Naiad\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Naiad\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Nancinator\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Nancinator\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Natosaleda\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Natosaleda\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: PhailMary\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for PhailMary\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Phrankenstein\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Phrankenstein\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: RER2\_65 Start: 44343, Stop: 44176, Start Num: 2

Candidate Starts for RER2\_65:

(Start: 1 @44370 has 1 MA's), (Start: 2 @44343 has 27 MA's), (Start: 3 @44337 has 2 MA's), (4, 44304), (5, 44283),

Gene: Rasputin\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Rasputin\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: RexFury\_2 Start: 916, Stop: 749, Start Num: 2

Candidate Starts for RexFury\_2:

(Start: 1 @943 has 1 MA's), (Start: 2 @916 has 27 MA's), (Start: 3 @910 has 2 MA's), (4, 877), (5, 856),

Gene: Rhodalysa\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Rhodalysa\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Shuman\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Shuman\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: StCroix\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for StCroix\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Swann\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Swann\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: TWAMP\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for TWAMP\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Takoda\_2 Start: 880, Stop: 713, Start Num: 2

Candidate Starts for Takoda\_2:

(Start: 1 @907 has 1 MA's), (Start: 2 @880 has 27 MA's), (Start: 3 @874 has 2 MA's), (4, 841), (5, 820),

Gene: UhSalsa\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for UhSalsa\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),

Gene: Yoncess\_2 Start: 885, Stop: 718, Start Num: 2

Candidate Starts for Yoncess\_2:

(Start: 1 @912 has 1 MA's), (Start: 2 @885 has 27 MA's), (Start: 3 @879 has 2 MA's), (4, 846), (5, 825),