



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 303737 Report

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

Pham number 303737 has 17 members, 6 are drafts.

Phages represented in each track:

- Track 1 : MeeZee\_1, Marchesa\_1, Caelakin\_1, Maverick\_1, Zarafa\_1, Shaka\_1, TiroTheta9\_1, Rockstar\_1, DropBear\_1, Peaches\_1
- Track 2 : LeoAvram\_1
- Track 3 : Backyardigan\_1
- Track 4 : Florence4\_1, Prinashe11\_1, Florence1\_1
- Track 5 : Swirley\_1, Bonamassa\_1

### ***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:

- Backyardigan\_1, Bonamassa\_1, Caelakin\_1, DropBear\_1, Marchesa\_1, Maverick\_1, MeeZee\_1, Peaches\_1, Rockstar\_1, Shaka\_1, Swirley\_1, TiroTheta9\_1, Zarafa\_1,

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

- Florence1\_1, Florence4\_1, LeoAvram\_1, Prinashe11\_1,

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

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

Start 1:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 11
- Called 76.5% of time when present
- Phage (with cluster) where this start called: Backyardigan\_1 (A4), Bonamassa\_1 (A5), Caelakin\_1 (A4), DropBear\_1 (A3), Marchesa\_1 (A3), Maverick\_1 (A4), MeeZee\_1 (A4), Peaches\_1 (A4), Rockstar\_1 (A3), Shaka\_1 (A4), Swirley\_1 (A5), TiroTheta9\_1 (A4), Zarafa\_1 (A3),

Start 2:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 23.5% of time when present
- Phage (with cluster) where this start called: Florence1\_1 (A5), Florence4\_1 (A5), LeoAvram\_1 (A4), Prinash11\_1 (A5),

**Summary by clusters:**

There are 3 clusters represented in this pham: A3, A5, A4,

Info for manual annotations of cluster A3:

- Start number 1 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A4:

- Start number 1 was manually annotated 7 times for cluster A4.
- Start number 2 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:

- Start number 1 was manually annotated 2 times for cluster A5.

**Gene Information:**

Gene: Backyardigan\_1 Start: 676, Stop: 461, Start Num: 1

Candidate Starts for Backyardigan\_1:

(Start: 1 @676 has 10 MA's), (Start: 2 @637 has 1 MA's), (3, 616), (4, 562),

Gene: Bonamassa\_1 Start: 741, Stop: 553, Start Num: 1

Candidate Starts for Bonamassa\_1:

(Start: 1 @741 has 10 MA's), (Start: 2 @702 has 1 MA's), (3, 681), (5, 603), (6, 585),

Gene: Caelakin\_1 Start: 672, Stop: 457, Start Num: 1

Candidate Starts for Caelakin\_1:

(Start: 1 @672 has 10 MA's), (Start: 2 @633 has 1 MA's), (3, 612),

Gene: DropBear\_1 Start: 619, Stop: 431, Start Num: 1

Candidate Starts for DropBear\_1:

(Start: 1 @619 has 10 MA's), (Start: 2 @580 has 1 MA's), (3, 559),

Gene: Florence1\_1 Start: 670, Stop: 521, Start Num: 2

Candidate Starts for Florence1\_1:

(Start: 1 @709 has 10 MA's), (Start: 2 @670 has 1 MA's), (3, 649), (5, 571), (6, 553),

Gene: Florence4\_1 Start: 670, Stop: 521, Start Num: 2

Candidate Starts for Florence4\_1:

(Start: 1 @709 has 10 MA's), (Start: 2 @670 has 1 MA's), (3, 649), (5, 571), (6, 553),

Gene: LeoAvram\_1 Start: 633, Stop: 457, Start Num: 2

Candidate Starts for LeoAvram\_1:

(Start: 1 @672 has 10 MA's), (Start: 2 @633 has 1 MA's), (3, 612),

Gene: Marchesa\_1 Start: 619, Stop: 431, Start Num: 1  
Candidate Starts for Marchesa\_1:  
(Start: 1 @619 has 10 MA's), (Start: 2 @580 has 1 MA's), (3, 559),

Gene: Maverick\_1 Start: 672, Stop: 457, Start Num: 1  
Candidate Starts for Maverick\_1:  
(Start: 1 @672 has 10 MA's), (Start: 2 @633 has 1 MA's), (3, 612),

Gene: MeeZee\_1 Start: 672, Stop: 457, Start Num: 1  
Candidate Starts for MeeZee\_1:  
(Start: 1 @672 has 10 MA's), (Start: 2 @633 has 1 MA's), (3, 612),

Gene: Peaches\_1 Start: 672, Stop: 457, Start Num: 1  
Candidate Starts for Peaches\_1:  
(Start: 1 @672 has 10 MA's), (Start: 2 @633 has 1 MA's), (3, 612),

Gene: Prinasha11\_1 Start: 670, Stop: 521, Start Num: 2  
Candidate Starts for Prinasha11\_1:  
(Start: 1 @709 has 10 MA's), (Start: 2 @670 has 1 MA's), (3, 649), (5, 571), (6, 553),

Gene: Rockstar\_1 Start: 622, Stop: 452, Start Num: 1  
Candidate Starts for Rockstar\_1:  
(Start: 1 @622 has 10 MA's), (Start: 2 @583 has 1 MA's), (3, 562),

Gene: Shaka\_1 Start: 672, Stop: 457, Start Num: 1  
Candidate Starts for Shaka\_1:  
(Start: 1 @672 has 10 MA's), (Start: 2 @633 has 1 MA's), (3, 612),

Gene: Swirley\_1 Start: 709, Stop: 521, Start Num: 1  
Candidate Starts for Swirley\_1:  
(Start: 1 @709 has 10 MA's), (Start: 2 @670 has 1 MA's), (3, 649), (5, 571), (6, 553),

Gene: TiroTheta9\_1 Start: 672, Stop: 457, Start Num: 1  
Candidate Starts for TiroTheta9\_1:  
(Start: 1 @672 has 10 MA's), (Start: 2 @633 has 1 MA's), (3, 612),

Gene: Zarafa\_1 Start: 619, Stop: 431, Start Num: 1  
Candidate Starts for Zarafa\_1:  
(Start: 1 @619 has 10 MA's), (Start: 2 @580 has 1 MA's), (3, 559),