



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 274927 Report

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

Pham number 274927 has 12 members, 4 are drafts.

Phages represented in each track:

- Track 1 : PauloDiaboli\_19, Dodo\_20, Dodo\_370, PauloDiaboli\_374
- Track 2 : A3Wally\_19, A3Wally\_372
- Track 3 : Erasmago\_357, Erasmago\_19
- Track 4 : Zooman\_17, Zooman\_330
- Track 5 : Big4\_19, Big4\_345

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 5, it was called in 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Big4\_19, Big4\_345, Zooman\_17, Zooman\_330,

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:

- A3Wally\_19, A3Wally\_372, Dodo\_20, Dodo\_370, Erasmago\_19, Erasmago\_357, PauloDiaboli\_19, PauloDiaboli\_374,

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

Start 3:

- Found in 8 of 12 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 4 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally\_19 (GD1), A3Wally\_372 (GD1), Dodo\_20 (GD1), Dodo\_370 (GD1), Erasmago\_19 (GD2), Erasmago\_357 (GD2), PauloDiaboli\_19 (GD1), PauloDiaboli\_374 (GD1),

Start 5:

- Found in 4 of 12 ( 33.3% ) of genes in pham
- Manual Annotations of this start: 4 of 8

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Big4\_19 (GD2), Big4\_345 (GD2), Zooman\_17 (GD2), Zooman\_330 (GD2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: GD1, GD2,

Info for manual annotations of cluster GD1:

- Start number 3 was manually annotated 4 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 5 was manually annotated 4 times for cluster GD2.

### **Gene Information:**

Gene: A3Wally\_19 Start: 6966, Stop: 7199, Start Num: 3

Candidate Starts for A3Wally\_19:

(Start: 3 @6966 has 4 MA's), (4, 6969), (9, 7035), (11, 7089), (12, 7113), (15, 7182),

Gene: A3Wally\_372 Start: 186187, Stop: 186420, Start Num: 3

Candidate Starts for A3Wally\_372:

(Start: 3 @186187 has 4 MA's), (4, 186190), (9, 186256), (11, 186310), (12, 186334), (15, 186403),

Gene: Big4\_19 Start: 8718, Stop: 8936, Start Num: 5

Candidate Starts for Big4\_19:

(1, 8646), (2, 8655), (Start: 5 @8718 has 4 MA's), (7, 8739), (8, 8763), (10, 8793), (13, 8898), (15, 8922),

Gene: Big4\_345 Start: 183412, Stop: 183630, Start Num: 5

Candidate Starts for Big4\_345:

(1, 183340), (2, 183349), (Start: 5 @183412 has 4 MA's), (7, 183433), (8, 183457), (10, 183487), (13, 183592), (15, 183616),

Gene: Dodo\_20 Start: 6813, Stop: 7046, Start Num: 3

Candidate Starts for Dodo\_20:

(Start: 3 @6813 has 4 MA's), (4, 6816), (9, 6882), (11, 6936), (12, 6960),

Gene: Dodo\_370 Start: 185013, Stop: 185246, Start Num: 3

Candidate Starts for Dodo\_370:

(Start: 3 @185013 has 4 MA's), (4, 185016), (9, 185082), (11, 185136), (12, 185160),

Gene: Erasmago\_357 Start: 181541, Stop: 181777, Start Num: 3

Candidate Starts for Erasmago\_357:

(Start: 3 @181541 has 4 MA's), (4, 181544), (6, 181565), (9, 181610), (14, 181751),

Gene: Erasmago\_19 Start: 7032, Stop: 7268, Start Num: 3

Candidate Starts for Erasmago\_19:

(Start: 3 @7032 has 4 MA's), (4, 7035), (6, 7056), (9, 7101), (14, 7242),

Gene: PauloDiaboli\_19 Start: 6806, Stop: 7039, Start Num: 3

Candidate Starts for PauloDiaboli\_19:

(Start: 3 @6806 has 4 MA's), (4, 6809), (9, 6875), (11, 6929), (12, 6953),

Gene: PauloDiaboli\_374 Start: 183435, Stop: 183668, Start Num: 3

Candidate Starts for PauloDiaboli\_374:

(Start: 3 @183435 has 4 MA's), (4, 183438), (9, 183504), (11, 183558), (12, 183582),

Gene: Zooman\_17 Start: 8099, Stop: 8317, Start Num: 5

Candidate Starts for Zooman\_17:

(1, 8027), (Start: 5 @8099 has 4 MA's), (7, 8120), (8, 8144), (10, 8174), (13, 8279), (15, 8303),

Gene: Zooman\_330 Start: 183750, Stop: 183968, Start Num: 5

Candidate Starts for Zooman\_330:

(1, 183678), (Start: 5 @183750 has 4 MA's), (7, 183771), (8, 183795), (10, 183825), (13, 183930), (15, 183954),