

Zoomed Pham 331323



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 331323 Report

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

Pham number 331323 has 17 members, 3 are drafts.

Phages represented in each track:

- Track 1 : AreFloNak\_78
- Track 2 : Hemma\_71
- Track 3 : Nivinsha\_75
- Track 4 : ScienceWizSam\_74
- Track 5 : Bouchard\_78
- Track 6 : Tokki\_84
- Track 7 : Chlocho\_79
- Track 8 : Tipton\_80
- Track 9 : Shepard\_79
- Track 10 : Phaby\_80
- Track 11 : Loretta\_76, Ingrid\_80
- Track 12 : MediumFry\_72
- Track 13 : Anandi\_82
- Track 14 : Caterpillar\_72
- Track 15 : Truckee\_74, Makai\_76

### ***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 14 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anandi\_82, AreFloNak\_78, Bouchard\_78, Caterpillar\_72, Chlocho\_79, Hemma\_71, Ingrid\_80, Loretta\_76, Makai\_76, MediumFry\_72, Nivinsha\_75, Phaby\_80, ScienceWizSam\_74, Shepard\_79, Tipton\_80, Tokki\_84, Truckee\_74,

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

- 

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

- 

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

Start 1:

- Found in 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 14 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anandi\_82 (AU4), AreFloNak\_78 (AU1), Bouchard\_78 (AU2), Caterpillar\_72 (AU4), Chlocho\_79 (AU2), Hemma\_71 (AU1), Ingrid\_80 (AU3), Loretta\_76 (AU3), Makai\_76 (AU5), MediumFry\_72 (AU4), Nivinsha\_75 (AU1), Phaby\_80 (AU2), ScienceWizSam\_74 (AU1), Shepard\_79 (AU2), Tipton\_80 (AU2), Tokki\_84 (AU2), Truckee\_74 (AU5),

### **Summary by clusters:**

There are 5 clusters represented in this pham: AU1, AU3, AU2, AU5, AU4,

Info for manual annotations of cluster AU1:

- Start number 1 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 1 was manually annotated 6 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 1 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 1 was manually annotated 3 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 1 was manually annotated 2 times for cluster AU5.

### **Gene Information:**

Gene: Anandi\_82 Start: 49877, Stop: 50383, Start Num: 1

Candidate Starts for Anandi\_82:

(Start: 1 @49877 has 14 MA's), (7, 49931), (13, 49952), (14, 49955), (16, 49991), (21, 50012), (32, 50087), (38, 50117), (39, 50120), (48, 50303), (49, 50312),

Gene: AreFloNak\_78 Start: 49169, Stop: 49750, Start Num: 1

Candidate Starts for AreFloNak\_78:

(Start: 1 @49169 has 14 MA's), (8, 49229), (13, 49241), (14, 49244), (16, 49280), (20, 49298), (21, 49301), (23, 49313), (40, 49412), (54, 49736),

Gene: Bouchard\_78 Start: 49712, Stop: 50248, Start Num: 1

Candidate Starts for Bouchard\_78:

(Start: 1 @49712 has 14 MA's), (5, 49760), (10, 49778), (24, 49886), (34, 49961), (35, 49967), (49, 50177), (52, 50204),

Gene: Caterpillar\_72 Start: 48414, Stop: 48908, Start Num: 1

Candidate Starts for Caterpillar\_72:

(Start: 1 @48414 has 14 MA's), (4, 48444), (14, 48495), (26, 48591), (42, 48699), (46, 48750), (49, 48837),

Gene: Chlochlo\_79 Start: 49260, Stop: 49781, Start Num: 1

Candidate Starts for Chlochlo\_79:

(Start: 1 @49260 has 14 MA's), (17, 49380), (34, 49494), (35, 49500), (49, 49710), (52, 49737),

Gene: Hemma\_71 Start: 46968, Stop: 47525, Start Num: 1

Candidate Starts for Hemma\_71:

(Start: 1 @46968 has 14 MA's), (3, 46995), (11, 47043), (15, 47112), (18, 47121), (24, 47157), (25, 47160), (27, 47187), (31, 47205), (37, 47238), (53, 47487),

Gene: Ingrid\_80 Start: 49504, Stop: 50070, Start Num: 1

Candidate Starts for Ingrid\_80:

(Start: 1 @49504 has 14 MA's), (2, 49516), (3, 49531), (11, 49579), (19, 49657), (25, 49687), (33, 49762), (35, 49780), (49, 49999),

Gene: Loretta\_76 Start: 49504, Stop: 50070, Start Num: 1

Candidate Starts for Loretta\_76:

(Start: 1 @49504 has 14 MA's), (2, 49516), (3, 49531), (11, 49579), (19, 49657), (25, 49687), (33, 49762), (35, 49780), (49, 49999),

Gene: Makai\_76 Start: 49694, Stop: 50239, Start Num: 1

Candidate Starts for Makai\_76:

(Start: 1 @49694 has 14 MA's), (12, 49778), (22, 49847), (24, 49868), (28, 49901), (36, 49946), (43, 50039), (49, 50165),

Gene: MediumFry\_72 Start: 48931, Stop: 49428, Start Num: 1

Candidate Starts for MediumFry\_72:

(Start: 1 @48931 has 14 MA's), (4, 48961), (14, 49012), (42, 49219), (46, 49270), (49, 49357),

Gene: Nivinsha\_75 Start: 49169, Stop: 49750, Start Num: 1

Candidate Starts for Nivinsha\_75:

(Start: 1 @49169 has 14 MA's), (6, 49217), (13, 49241), (14, 49244), (16, 49280), (20, 49298), (21, 49301), (23, 49313), (40, 49412), (41, 49451), (45, 49511), (54, 49736),

Gene: Phaby\_80 Start: 49914, Stop: 50453, Start Num: 1

Candidate Starts for Phaby\_80:

(Start: 1 @49914 has 14 MA's), (7, 49968), (29, 50139), (34, 50166), (47, 50346), (49, 50382), (52, 50409),

Gene: ScienceWizSam\_74 Start: 49305, Stop: 49745, Start Num: 1

Candidate Starts for ScienceWizSam\_74:

(Start: 1 @49305 has 14 MA's), (8, 49365), (13, 49377), (14, 49380), (16, 49416), (20, 49434), (21, 49437), (23, 49449), (39, 49533), (43, 49593), (44, 49638), (50, 49722), (51, 49731),

Gene: Shepard\_79 Start: 49287, Stop: 49853, Start Num: 1

Candidate Starts for Shepard\_79:

(Start: 1 @49287 has 14 MA's), (3, 49314), (9, 49350), (24, 49491), (26, 49515), (30, 49542), (49, 49782), (52, 49809),

Gene: Tipton\_80 Start: 49814, Stop: 50329, Start Num: 1

Candidate Starts for Tipton\_80:

(Start: 1 @49814 has 14 MA's), (3, 49841), (12, 49889), (24, 49967), (34, 50042), (35, 50048), (49, 50258), (52, 50285),

Gene: Tokki\_84 Start: 49757, Stop: 50278, Start Num: 1

Candidate Starts for Tokki\_84:

(Start: 1 @49757 has 14 MA's), (17, 49877), (49, 50207), (52, 50234),

Gene: Truckee\_74 Start: 49479, Stop: 50024, Start Num: 1

Candidate Starts for Truckee\_74:

(Start: 1 @49479 has 14 MA's), (12, 49563), (22, 49632), (24, 49653), (28, 49686), (36, 49731), (43, 49824), (49, 49950),