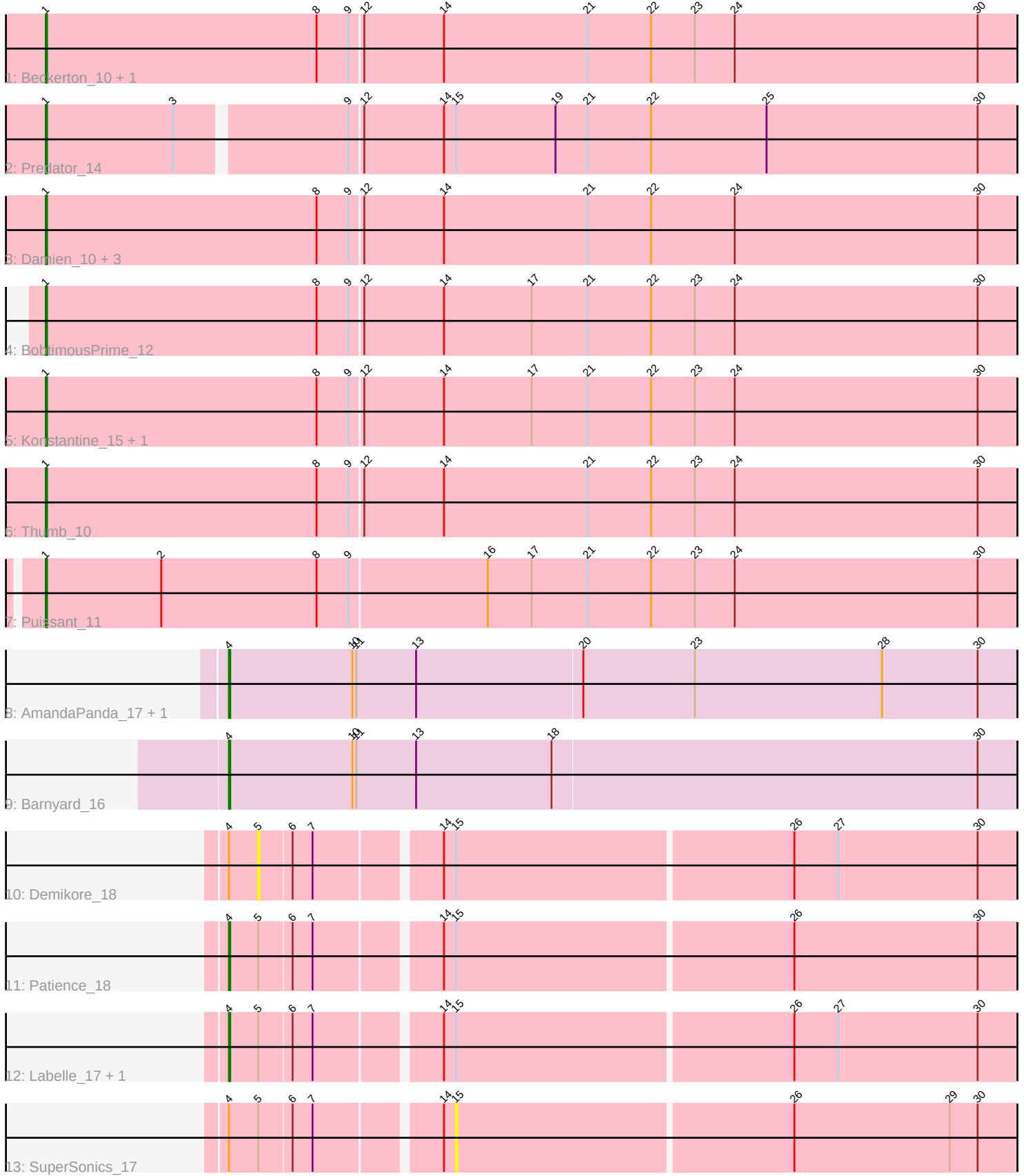


# Pham 331265



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 331265 Report

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

Pham number 331265 has 20 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Beckerton\_10, Phreeze\_10
- Track 2 : Predator\_14
- Track 3 : Damien\_10, Nish23\_11, Cborch11\_11, Megatron06\_12
- Track 4 : BobtimousPrime\_12
- Track 5 : Konstantine\_15, Oaker\_10
- Track 6 : Thumb\_10
- Track 7 : Puissant\_11
- Track 8 : AmandaPanda\_17, DrLupo\_18
- Track 9 : Barnyard\_16
- Track 10 : Demikore\_18
- Track 11 : Patience\_18
- Track 12 : Labelle\_17, Madruga\_16
- Track 13 : SuperSonics\_17

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

Genes that call this "Most Annotated" start:

- Beckerton\_10, BobtimousPrime\_12, Cborch11\_11, Damien\_10, Konstantine\_15, Megatron06\_12, Nish23\_11, Oaker\_10, Phreeze\_10, Predator\_14, Puissant\_11, Thumb\_10,

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

- 

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

- AmandaPanda\_17, Barnyard\_16, Demikore\_18, DrLupo\_18, Labelle\_17, Madruga\_16, Patience\_18, SuperSonics\_17,

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

Start 1:

- Found in 12 of 20 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 11 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton\_10 (H1), BobtimousPrime\_12 (H1), Cborch11\_11 (H1), Damien\_10 (H1), Konstantine\_15 (H1), Megatron06\_12 (H1), Nish23\_11 (H1), Oaker\_10 (H1), Phreeze\_10 (H1), Predator\_14 (H1), Puissant\_11 (H1), Thumb\_10 (H1),

Start 4:

- Found in 8 of 20 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 5 of 16
- Called 75.0% of time when present
- Phage (with cluster) where this start called: AmandaPanda\_17 (H2), Barnyard\_16 (H2), DrLupo\_18 (H2), Labelle\_17 (U), Madruga\_16 (U), Patience\_18 (U),

Start 5:

- Found in 5 of 20 ( 25.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Demikore\_18 (U),

Start 15:

- Found in 6 of 20 ( 30.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: SuperSonics\_17 (U),

### **Summary by clusters:**

There are 3 clusters represented in this pham: H2, H1, U,

Info for manual annotations of cluster H1:

- Start number 1 was manually annotated 11 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 4 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster U:

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

### **Gene Information:**

Gene: AmandaPanda\_17 Start: 8751, Stop: 9389, Start Num: 4

Candidate Starts for AmandaPanda\_17:

(Start: 4 @8751 has 5 MA's), (10, 8841), (11, 8844), (13, 8889), (20, 9012), (23, 9096), (28, 9237), (30, 9309),

Gene: Barnyard\_16 Start: 8337, Stop: 8972, Start Num: 4

Candidate Starts for Barnyard\_16:

(Start: 4 @8337 has 5 MA's), (10, 8427), (11, 8430), (13, 8475), (18, 8577), (30, 8895),

Gene: Beckerton\_10 Start: 7270, Stop: 8043, Start Num: 1

Candidate Starts for Beckerton\_10:

(Start: 1 @7270 has 11 MA's), (8, 7474), (9, 7498), (12, 7507), (14, 7567), (21, 7675), (22, 7723), (23, 7756), (24, 7786), (30, 7969),

Gene: BobtimousPrime\_12 Start: 7190, Stop: 7963, Start Num: 1

Candidate Starts for BobtimousPrime\_12:

(Start: 1 @7190 has 11 MA's), (8, 7394), (9, 7418), (12, 7427), (14, 7487), (17, 7553), (21, 7595), (22, 7643), (23, 7676), (24, 7706), (30, 7889),

Gene: Cborch11\_11 Start: 6735, Stop: 7508, Start Num: 1

Candidate Starts for Cborch11\_11:

(Start: 1 @6735 has 11 MA's), (8, 6939), (9, 6963), (12, 6972), (14, 7032), (21, 7140), (22, 7188), (24, 7251), (30, 7434),

Gene: Damien\_10 Start: 6735, Stop: 7508, Start Num: 1

Candidate Starts for Damien\_10:

(Start: 1 @6735 has 11 MA's), (8, 6939), (9, 6963), (12, 6972), (14, 7032), (21, 7140), (22, 7188), (24, 7251), (30, 7434),

Gene: Demikore\_18 Start: 9930, Stop: 10514, Start Num: 5

Candidate Starts for Demikore\_18:

(Start: 4 @9909 has 5 MA's), (5, 9930), (6, 9954), (7, 9969), (14, 10056), (15, 10065), (26, 10314), (27, 10347), (30, 10452),

Gene: DrLupo\_18 Start: 8751, Stop: 9389, Start Num: 4

Candidate Starts for DrLupo\_18:

(Start: 4 @8751 has 5 MA's), (10, 8841), (11, 8844), (13, 8889), (20, 9012), (23, 9096), (28, 9237), (30, 9309),

Gene: Konstantine\_15 Start: 7934, Stop: 8707, Start Num: 1

Candidate Starts for Konstantine\_15:

(Start: 1 @7934 has 11 MA's), (8, 8138), (9, 8162), (12, 8171), (14, 8231), (17, 8297), (21, 8339), (22, 8387), (23, 8420), (24, 8450), (30, 8633),

Gene: Labelle\_17 Start: 9911, Stop: 10516, Start Num: 4

Candidate Starts for Labelle\_17:

(Start: 4 @9911 has 5 MA's), (5, 9932), (6, 9956), (7, 9971), (14, 10058), (15, 10067), (26, 10316), (27, 10349), (30, 10454),

Gene: Madruga\_16 Start: 9579, Stop: 10184, Start Num: 4

Candidate Starts for Madruga\_16:

(Start: 4 @9579 has 5 MA's), (5, 9600), (6, 9624), (7, 9639), (14, 9726), (15, 9735), (26, 9984), (27, 10017), (30, 10122),

Gene: Megatron06\_12 Start: 7270, Stop: 8043, Start Num: 1

Candidate Starts for Megatron06\_12:

(Start: 1 @7270 has 11 MA's), (8, 7474), (9, 7498), (12, 7507), (14, 7567), (21, 7675), (22, 7723), (24, 7786), (30, 7969),

Gene: Nish23\_11 Start: 6735, Stop: 7508, Start Num: 1

Candidate Starts for Nish23\_11:

(Start: 1 @6735 has 11 MA's), (8, 6939), (9, 6963), (12, 6972), (14, 7032), (21, 7140), (22, 7188), (24, 7251), (30, 7434),

Gene: Oaker\_10 Start: 6991, Stop: 7764, Start Num: 1

Candidate Starts for Oaker\_10:

(Start: 1 @6991 has 11 MA's), (8, 7195), (9, 7219), (12, 7228), (14, 7288), (17, 7354), (21, 7396), (22, 7444), (23, 7477), (24, 7507), (30, 7690),

Gene: Patience\_18 Start: 10470, Stop: 11075, Start Num: 4

Candidate Starts for Patience\_18:

(Start: 4 @10470 has 5 MA's), (5, 10491), (6, 10515), (7, 10530), (14, 10617), (15, 10626), (26, 10875), (30, 11013),

Gene: Phreeze\_10 Start: 6735, Stop: 7508, Start Num: 1

Candidate Starts for Phreeze\_10:

(Start: 1 @6735 has 11 MA's), (8, 6939), (9, 6963), (12, 6972), (14, 7032), (21, 7140), (22, 7188), (23, 7221), (24, 7251), (30, 7434),

Gene: Predator\_14 Start: 8264, Stop: 9025, Start Num: 1

Candidate Starts for Predator\_14:

(Start: 1 @8264 has 11 MA's), (3, 8360), (9, 8480), (12, 8489), (14, 8549), (15, 8558), (19, 8633), (21, 8657), (22, 8705), (25, 8792), (30, 8951),

Gene: Puissant\_11 Start: 7154, Stop: 7927, Start Num: 1

Candidate Starts for Puissant\_11:

(Start: 1 @7154 has 11 MA's), (2, 7241), (8, 7358), (9, 7382), (16, 7484), (17, 7517), (21, 7559), (22, 7607), (23, 7640), (24, 7670), (30, 7853),

Gene: SuperSonics\_17 Start: 9793, Stop: 10242, Start Num: 15

Candidate Starts for SuperSonics\_17:

(Start: 4 @9637 has 5 MA's), (5, 9658), (6, 9682), (7, 9697), (14, 9784), (15, 9793), (26, 10042), (29, 10159), (30, 10180),

Gene: Thumb\_10 Start: 6736, Stop: 7509, Start Num: 1

Candidate Starts for Thumb\_10:

(Start: 1 @6736 has 11 MA's), (8, 6940), (9, 6964), (12, 6973), (14, 7033), (21, 7141), (22, 7189), (23, 7222), (24, 7252), (30, 7435),