



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 296896 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296896 has 25 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Malachai\_10, Begonia\_10
- Track 2 : BlingBling\_10, Hitter\_10, Barco\_10, Utz\_10, MintFen\_10, Guacamole\_10, CaptainKirk2\_10, JasperJr\_10, Zarbodnamra\_10, Delian\_10, Melba\_10
- Track 3 : Lysidious\_10
- Track 4 : Soilmate\_10, Blino\_10, CarolAnn\_10
- Track 5 : Toast\_10, PCoral7\_10
- Track 6 : PrincePatrick\_10, Fairfaxidum\_10
- Track 7 : Frokostdame\_10
- Track 8 : JuJu\_10
- Track 9 : Zilla\_10
- Track 10 : Archis\_11

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

The start number called the most often in the published annotations is 10, it was called in 23 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archis\_11, Barco\_10, Begonia\_10, BlingBling\_10, Blino\_10, CaptainKirk2\_10, CarolAnn\_10, Delian\_10, Fairfaxidum\_10, Frokostdame\_10, Guacamole\_10, Hitter\_10, JasperJr\_10, JuJu\_10, Lysidious\_10, Malachai\_10, Melba\_10, MintFen\_10, PCoral7\_10, PrincePatrick\_10, Soilmate\_10, Toast\_10, Utz\_10, Zarbodnamra\_10,

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

- Zilla\_10,

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

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

Start 9:

- Found in 2 of 25 ( 8.0% ) of genes in pham

- Manual Annotations of this start: 1 of 24
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Zilla\_10 (CV),

Start 10:

- Found in 25 of 25 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 23 of 24
- Called 96.0% of time when present
- Phage (with cluster) where this start called: Archis\_11 (CV), Barco\_10 (CV), Begonia\_10 (CV), BlingBling\_10 (CV), Blino\_10 (CV), CaptainKirk2\_10 (CV), CarolAnn\_10 (CV), Delian\_10 (CV), Fairfaxidum\_10 (CV), Frokostdame\_10 (CV), Guacamole\_10 (CV), Hitter\_10 (CV), JasperJr\_10 (CV), JuJu\_10 (CV), Lysidious\_10 (CV), Malachai\_10 (CV), Melba\_10 (CV), MintFen\_10 (CV), PCoral7\_10 (CV), PrincePatrick\_10 (CV), Soilmate\_10 (CV), Toast\_10 (CV), Utz\_10 (CV), Zarbodnamra\_10 (CV),

### Summary by clusters:

There is one cluster represented in this pham: CV

Info for manual annotations of cluster CV:

- Start number 9 was manually annotated 1 time for cluster CV.
- Start number 10 was manually annotated 23 times for cluster CV.

### Gene Information:

Gene: Archis\_11 Start: 7542, Stop: 7802, Start Num: 10

Candidate Starts for Archis\_11:

(5, 7362), (6, 7365), (7, 7371), (8, 7464), (Start: 10 @7542 has 23 MA's), (11, 7551), (12, 7590), (13, 7620), (17, 7713), (19, 7779),

Gene: Barco\_10 Start: 7330, Stop: 7590, Start Num: 10

Candidate Starts for Barco\_10:

(5, 7150), (6, 7153), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7567),

Gene: Begonia\_10 Start: 7333, Stop: 7593, Start Num: 10

Candidate Starts for Begonia\_10:

(2, 6907), (3, 6910), (4, 7048), (5, 7153), (6, 7156), (8, 7255), (Start: 10 @7333 has 23 MA's), (12, 7381), (13, 7411), (17, 7504), (19, 7570),

Gene: BlingBling\_10 Start: 7330, Stop: 7590, Start Num: 10

Candidate Starts for BlingBling\_10:

(5, 7150), (6, 7153), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7567),

Gene: Blino\_10 Start: 7230, Stop: 7490, Start Num: 10

Candidate Starts for Blino\_10:

(3, 6807), (4, 6945), (5, 7050), (6, 7053), (8, 7152), (Start: 10 @7230 has 23 MA's), (12, 7278), (13, 7308), (17, 7401), (19, 7467),

Gene: CaptainKirk2\_10 Start: 7330, Stop: 7590, Start Num: 10

Candidate Starts for CaptainKirk2\_10:

(5, 7150), (6, 7153), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7567),

Gene: CarolAnn\_10 Start: 7229, Stop: 7489, Start Num: 10

Candidate Starts for CarolAnn\_10:

(3, 6806), (4, 6944), (5, 7049), (6, 7052), (8, 7151), (Start: 10 @7229 has 23 MA's), (12, 7277), (13, 7307), (17, 7400), (19, 7466),

Gene: Delian\_10 Start: 7330, Stop: 7590, Start Num: 10

Candidate Starts for Delian\_10:

(5, 7150), (6, 7153), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7567),

Gene: Fairfaxidum\_10 Start: 7314, Stop: 7631, Start Num: 10

Candidate Starts for Fairfaxidum\_10:

(6, 7137), (7, 7143), (8, 7236), (Start: 10 @7314 has 23 MA's), (12, 7362), (15, 7452), (18, 7506), (20, 7569),

Gene: Frokostdame\_10 Start: 7325, Stop: 7585, Start Num: 10

Candidate Starts for Frokostdame\_10:

(3, 6902), (4, 7040), (5, 7145), (6, 7148), (8, 7247), (Start: 9 @7313 has 1 MA's), (Start: 10 @7325 has 23 MA's), (12, 7373), (13, 7403), (17, 7496), (19, 7562),

Gene: Guacamole\_10 Start: 7334, Stop: 7594, Start Num: 10

Candidate Starts for Guacamole\_10:

(5, 7154), (6, 7157), (Start: 10 @7334 has 23 MA's), (12, 7382), (13, 7412), (17, 7505), (19, 7571),

Gene: Hitter\_10 Start: 7330, Stop: 7590, Start Num: 10

Candidate Starts for Hitter\_10:

(5, 7150), (6, 7153), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7567),

Gene: JasperJr\_10 Start: 7334, Stop: 7594, Start Num: 10

Candidate Starts for JasperJr\_10:

(5, 7154), (6, 7157), (Start: 10 @7334 has 23 MA's), (12, 7382), (13, 7412), (17, 7505), (19, 7571),

Gene: JuJu\_10 Start: 7255, Stop: 7542, Start Num: 10

Candidate Starts for JuJu\_10:

(3, 6832), (4, 6970), (5, 7075), (6, 7078), (7, 7084), (Start: 10 @7255 has 23 MA's), (12, 7303), (13, 7333), (15, 7393), (17, 7426), (19, 7492),

Gene: Lysidious\_10 Start: 7330, Stop: 7590, Start Num: 10

Candidate Starts for Lysidious\_10:

(5, 7150), (6, 7153), (8, 7252), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7567),

Gene: Malachai\_10 Start: 7333, Stop: 7593, Start Num: 10

Candidate Starts for Malachai\_10:

(2, 6907), (3, 6910), (4, 7048), (5, 7153), (6, 7156), (8, 7255), (Start: 10 @7333 has 23 MA's), (12, 7381), (13, 7411), (17, 7504), (19, 7570),

Gene: Melba\_10 Start: 7330, Stop: 7590, Start Num: 10

Candidate Starts for Melba\_10:

(5, 7150), (6, 7153), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7567),

Gene: MintFen\_10 Start: 7330, Stop: 7590, Start Num: 10

Candidate Starts for MintFen\_10:

(5, 7150), (6, 7153), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7567),

Gene: PCoral7\_10 Start: 7314, Stop: 7574, Start Num: 10

Candidate Starts for PCoral7\_10:

(1, 6843), (6, 7137), (7, 7143), (8, 7236), (Start: 10 @7314 has 23 MA's), (12, 7362), (14, 7416), (15, 7452), (16, 7455), (17, 7485), (19, 7551),

Gene: PrincePatrick\_10 Start: 7315, Stop: 7632, Start Num: 10

Candidate Starts for PrincePatrick\_10:

(6, 7138), (7, 7144), (8, 7237), (Start: 10 @7315 has 23 MA's), (12, 7363), (15, 7453), (18, 7507), (20, 7570),

Gene: Soilmate\_10 Start: 7229, Stop: 7489, Start Num: 10

Candidate Starts for Soilmate\_10:

(3, 6806), (4, 6944), (5, 7049), (6, 7052), (8, 7151), (Start: 10 @7229 has 23 MA's), (12, 7277), (13, 7307), (17, 7400), (19, 7466),

Gene: Toast\_10 Start: 7314, Stop: 7574, Start Num: 10

Candidate Starts for Toast\_10:

(1, 6843), (6, 7137), (7, 7143), (8, 7236), (Start: 10 @7314 has 23 MA's), (12, 7362), (14, 7416), (15, 7452), (16, 7455), (17, 7485), (19, 7551),

Gene: Utz\_10 Start: 7330, Stop: 7563, Start Num: 10

Candidate Starts for Utz\_10:

(5, 7150), (6, 7153), (Start: 10 @7330 has 23 MA's), (12, 7378), (13, 7408), (17, 7501), (19, 7540),

Gene: Zarbodnamra\_10 Start: 7329, Stop: 7589, Start Num: 10

Candidate Starts for Zarbodnamra\_10:

(5, 7149), (6, 7152), (Start: 10 @7329 has 23 MA's), (12, 7377), (13, 7407), (17, 7500), (19, 7566),

Gene: Zilla\_10 Start: 7370, Stop: 7642, Start Num: 9

Candidate Starts for Zilla\_10:

(5, 7202), (6, 7205), (8, 7304), (Start: 9 @7370 has 1 MA's), (Start: 10 @7382 has 23 MA's), (12, 7430), (13, 7460), (17, 7553), (19, 7619),