



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 292934 Report

This analysis was run 04/18/26 on database version 643.

Pham number 292934 has 44 members, 11 are drafts.

Phages represented in each track:

- Track 1 : HelDan\_18, Roimos\_18, Kachowdy\_18, JF2\_18, Rockstar\_18, Clammy\_18, BabyJohn\_17, Heathen\_18, Giroux\_19, Pistachio\_19, Fred313\_18, Isca\_18, Zarafa\_18, MA5\_18, Bugatti\_18, Phantastic\_18, Chiqui\_17, Puppy\_19, JF4\_18, DropBear\_18, Idleandcovert\_18, TNguyen7\_18, Scout\_18, BlueBird\_19, Marchesa\_18, B1\_16, MK4\_18, SaturnRing\_18
- Track 2 : Lambert1\_19, Norbert\_18, Noella\_19, ResDef\_19, Todacoro\_19, QuinnKiro\_18, Margo\_19, Texage\_18, Popcicle\_19, Caviar\_19, EtoileNova\_19, Veracruz\_18, Hookmount\_19, Pocahontas\_19
- Track 3 : BabyRay\_18
- Track 4 : PP\_28

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

The start number called the most often in the published annotations is 2, it was called in 33 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- B1\_16, BabyJohn\_17, BabyRay\_18, BlueBird\_19, Bugatti\_18, Caviar\_19, Chiqui\_17, Clammy\_18, DropBear\_18, EtoileNova\_19, Fred313\_18, Giroux\_19, Heathen\_18, HelDan\_18, Hookmount\_19, Idleandcovert\_18, Isca\_18, JF2\_18, JF4\_18, Kachowdy\_18, Lambert1\_19, MA5\_18, MK4\_18, Marchesa\_18, Margo\_19, Noella\_19, Norbert\_18, PP\_28, Phantastic\_18, Pistachio\_19, Pocahontas\_19, Popcicle\_19, Puppy\_19, QuinnKiro\_18, ResDef\_19, Rockstar\_18, Roimos\_18, SaturnRing\_18, Scout\_18, TNguyen7\_18, Texage\_18, Todacoro\_19, Veracruz\_18, Zarafa\_18,

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 2:

- Found in 44 of 44 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 33 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: B1\_16 (A3), BabyJohn\_17 (A3), BabyRay\_18 (A3), BlueBird\_19 (A3), Bugatti\_18 (A3), Caviar\_19 (A3), Chiqui\_17 (A3), Clammy\_18 (A3), DropBear\_18 (A3), EtoileNova\_19 (A3), Fred313\_18 (A3), Giroux\_19 (A3), Heathen\_18 (A3), HelDan\_18 (A3), Hookmount\_19 (A3), Idleandcovert\_18 (A3), Isca\_18 (A3), JF2\_18 (A3), JF4\_18 (A3), Kachowdy\_18 (A3), Lambert1\_19 (A3), MA5\_18 (A3), MK4\_18 (A3), Marchesa\_18 (A3), Margo\_19 (A3), Noella\_19 (A3), Norbert\_18 (A3), PP\_28 (A7), Phantastic\_18 (A3), Pistachio\_19 (A3), Pocahontas\_19 (A3), Popcicle\_19 (A3), Puppy\_19 (A3), QuinnKiro\_18 (A3), ResDef\_19 (A3), Rockstar\_18 (A3), Roimos\_18 (A3), SaturnRing\_18 (A3), Scout\_18 (A3), TNguyen7\_18 (A3), Texage\_18 (A3), Todacoro\_19 (A3), Veracruz\_18 (A3), Zarafa\_18 (A3),

#### Summary by clusters:

There are 2 clusters represented in this pham: A3, A7,

Info for manual annotations of cluster A3:

- Start number 2 was manually annotated 32 times for cluster A3.

Info for manual annotations of cluster A7:

- Start number 2 was manually annotated 1 time for cluster A7.

#### **Gene Information:**

Gene: B1\_16 Start: 12367, Stop: 12501, Start Num: 2

Candidate Starts for B1\_16:

(1, 12301), (Start: 2 @12367 has 33 MA's),

Gene: BabyJohn\_17 Start: 12951, Stop: 13088, Start Num: 2

Candidate Starts for BabyJohn\_17:

(1, 12885), (Start: 2 @12951 has 33 MA's),

Gene: BabyRay\_18 Start: 12940, Stop: 13074, Start Num: 2

Candidate Starts for BabyRay\_18:

(1, 12874), (Start: 2 @12940 has 33 MA's),

Gene: BlueBird\_19 Start: 12714, Stop: 12848, Start Num: 2

Candidate Starts for BlueBird\_19:

(1, 12648), (Start: 2 @12714 has 33 MA's),

Gene: Bugatti\_18 Start: 12714, Stop: 12848, Start Num: 2

Candidate Starts for Bugatti\_18:

(1, 12648), (Start: 2 @12714 has 33 MA's),

Gene: Caviar\_19 Start: 13255, Stop: 13386, Start Num: 2

Candidate Starts for Caviar\_19:

(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: Chiqui\_17 Start: 12951, Stop: 13088, Start Num: 2  
Candidate Starts for Chiqui\_17:  
(1, 12885), (Start: 2 @12951 has 33 MA's),

Gene: Clammy\_18 Start: 12714, Stop: 12848, Start Num: 2  
Candidate Starts for Clammy\_18:  
(1, 12648), (Start: 2 @12714 has 33 MA's),

Gene: DropBear\_18 Start: 12774, Stop: 12908, Start Num: 2  
Candidate Starts for DropBear\_18:  
(1, 12708), (Start: 2 @12774 has 33 MA's),

Gene: EtoileNova\_19 Start: 13258, Stop: 13389, Start Num: 2  
Candidate Starts for EtoileNova\_19:  
(1, 13192), (Start: 2 @13258 has 33 MA's), (4, 13288),

Gene: Fred313\_18 Start: 12432, Stop: 12566, Start Num: 2  
Candidate Starts for Fred313\_18:  
(1, 12366), (Start: 2 @12432 has 33 MA's),

Gene: Giroux\_19 Start: 12714, Stop: 12848, Start Num: 2  
Candidate Starts for Giroux\_19:  
(1, 12648), (Start: 2 @12714 has 33 MA's),

Gene: Heathen\_18 Start: 12515, Stop: 12649, Start Num: 2  
Candidate Starts for Heathen\_18:  
(1, 12449), (Start: 2 @12515 has 33 MA's),

Gene: HelDan\_18 Start: 12767, Stop: 12901, Start Num: 2  
Candidate Starts for HelDan\_18:  
(1, 12701), (Start: 2 @12767 has 33 MA's),

Gene: Hookmount\_19 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for Hookmount\_19:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: Idleandcovert\_18 Start: 12714, Stop: 12848, Start Num: 2  
Candidate Starts for Idleandcovert\_18:  
(1, 12648), (Start: 2 @12714 has 33 MA's),

Gene: Isca\_18 Start: 12602, Stop: 12736, Start Num: 2  
Candidate Starts for Isca\_18:  
(1, 12536), (Start: 2 @12602 has 33 MA's),

Gene: JF2\_18 Start: 12367, Stop: 12501, Start Num: 2  
Candidate Starts for JF2\_18:  
(1, 12301), (Start: 2 @12367 has 33 MA's),

Gene: JF4\_18 Start: 12367, Stop: 12501, Start Num: 2  
Candidate Starts for JF4\_18:  
(1, 12301), (Start: 2 @12367 has 33 MA's),

Gene: Kachowdy\_18 Start: 12767, Stop: 12901, Start Num: 2  
Candidate Starts for Kachowdy\_18:  
(1, 12701), (Start: 2 @12767 has 33 MA's),

Gene: Lambert1\_19 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for Lambert1\_19:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: MA5\_18 Start: 12311, Stop: 12445, Start Num: 2  
Candidate Starts for MA5\_18:  
(1, 12245), (Start: 2 @12311 has 33 MA's),

Gene: MK4\_18 Start: 12601, Stop: 12735, Start Num: 2  
Candidate Starts for MK4\_18:  
(1, 12535), (Start: 2 @12601 has 33 MA's),

Gene: Marchesa\_18 Start: 12765, Stop: 12899, Start Num: 2  
Candidate Starts for Marchesa\_18:  
(1, 12699), (Start: 2 @12765 has 33 MA's),

Gene: Margo\_19 Start: 13280, Stop: 13411, Start Num: 2  
Candidate Starts for Margo\_19:  
(1, 13214), (Start: 2 @13280 has 33 MA's), (4, 13310),

Gene: Noella\_19 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for Noella\_19:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: Norbert\_18 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for Norbert\_18:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: PP\_28 Start: 18919, Stop: 19077, Start Num: 2  
Candidate Starts for PP\_28:  
(1, 18853), (Start: 2 @18919 has 33 MA's), (3, 18940), (5, 18985), (6, 19054),

Gene: Phantastic\_18 Start: 12680, Stop: 12814, Start Num: 2  
Candidate Starts for Phantastic\_18:  
(1, 12614), (Start: 2 @12680 has 33 MA's),

Gene: Pistachio\_19 Start: 12261, Stop: 12395, Start Num: 2  
Candidate Starts for Pistachio\_19:  
(1, 12195), (Start: 2 @12261 has 33 MA's),

Gene: Pocahontas\_19 Start: 13252, Stop: 13383, Start Num: 2  
Candidate Starts for Pocahontas\_19:  
(1, 13186), (Start: 2 @13252 has 33 MA's), (4, 13282),

Gene: Popcicle\_19 Start: 13252, Stop: 13383, Start Num: 2  
Candidate Starts for Popcicle\_19:  
(1, 13186), (Start: 2 @13252 has 33 MA's), (4, 13282),

Gene: Puppy\_19 Start: 12333, Stop: 12467, Start Num: 2

Candidate Starts for Puppy\_19:  
(1, 12267), (Start: 2 @12333 has 33 MA's),

Gene: QuinnKiro\_18 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for QuinnKiro\_18:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: ResDef\_19 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for ResDef\_19:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: Rockstar\_18 Start: 12607, Stop: 12741, Start Num: 2  
Candidate Starts for Rockstar\_18:  
(1, 12541), (Start: 2 @12607 has 33 MA's),

Gene: Roimos\_18 Start: 12683, Stop: 12817, Start Num: 2  
Candidate Starts for Roimos\_18:  
(1, 12617), (Start: 2 @12683 has 33 MA's),

Gene: SaturnRing\_18 Start: 12714, Stop: 12848, Start Num: 2  
Candidate Starts for SaturnRing\_18:  
(1, 12648), (Start: 2 @12714 has 33 MA's),

Gene: Scout\_18 Start: 12014, Stop: 12148, Start Num: 2  
Candidate Starts for Scout\_18:  
(1, 11948), (Start: 2 @12014 has 33 MA's),

Gene: TNguyen7\_18 Start: 12684, Stop: 12818, Start Num: 2  
Candidate Starts for TNguyen7\_18:  
(1, 12618), (Start: 2 @12684 has 33 MA's),

Gene: Texage\_18 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for Texage\_18:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: Todacoro\_19 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for Todacoro\_19:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: Veracruz\_18 Start: 13255, Stop: 13386, Start Num: 2  
Candidate Starts for Veracruz\_18:  
(1, 13189), (Start: 2 @13255 has 33 MA's), (4, 13285),

Gene: Zarafa\_18 Start: 12776, Stop: 12910, Start Num: 2  
Candidate Starts for Zarafa\_18:  
(1, 12710), (Start: 2 @12776 has 33 MA's),