



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 296904 Report

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

Pham number 296904 has 24 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Travvers\_40
- Track 2 : Bigflo\_41, ClownCar\_41, Croquant\_42, Lowa\_41
- Track 3 : Gwennie\_40, Colbster\_41
- Track 4 : Calvinny\_41
- Track 5 : BabyJohn\_35, Zarafa\_36, Chiqui\_35, DropBear\_36
- Track 6 : EtoileNova\_36
- Track 7 : Montavir\_40
- Track 8 : DelvinSonDorr\_39, Garak\_41, SuperCallie99\_40, Candra\_40, EricB\_40, BennyP\_40, Pmask\_40
- Track 9 : GreedyLawyer\_40, DaVinci\_40
- Track 10 : PP\_42

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

The start number called the most often in the published annotations is 13, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BennyP\_40, Bigflo\_41, Calvinny\_41, Candra\_40, ClownCar\_41, Colbster\_41, Croquant\_42, DelvinSonDorr\_39, EricB\_40, Garak\_41, Gwennie\_40, Lowa\_41, Montavir\_40, Pmask\_40, SuperCallie99\_40, Travvers\_40,

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

- DaVinci\_40, GreedyLawyer\_40,

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

- BabyJohn\_35, Chiqui\_35, DropBear\_36, EtoileNova\_36, PP\_42, Zarafa\_36,

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

Start 8:

- Found in 9 of 24 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 22.2% of time when present

- Phage (with cluster) where this start called: DaVinci\_40 (A6), GreedyLawyer\_40 (A6),

#### Start 9:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EtoileNova\_36 (A3),

#### Start 11:

- Found in 5 of 24 ( 20.8% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabyJohn\_35 (A3), Chiqui\_35 (A3), DropBear\_36 (A3), PP\_42 (A7), Zarafa\_36 (A3),

#### Start 13:

- Found in 18 of 24 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 88.9% of time when present
- Phage (with cluster) where this start called: BennyP\_40 (A6), Bigflo\_41 (A3), Calvinny\_41 (A3), Candra\_40 (A6), ClownCar\_41 (A3), Colbster\_41 (A3), Croquant\_42 (A3), DelvinSonDorr\_39 (A6), EricB\_40 (A6), Garak\_41 (A6), Gwennie\_40 (A3), Lova\_41 (A3), Montavir\_40 (A3), Pmask\_40 (A6), SuperCallie99\_40 (A6), Travvers\_40 (A2),

### **Summary by clusters:**

There are 4 clusters represented in this pham: A3, A2, A7, A6,

#### Info for manual annotations of cluster A3:

- Start number 13 was manually annotated 1 time for cluster A3.

#### Info for manual annotations of cluster A6:

- Start number 8 was manually annotated 2 times for cluster A6.
- Start number 13 was manually annotated 3 times for cluster A6.

#### Info for manual annotations of cluster A7:

- Start number 11 was manually annotated 1 time for cluster A7.

### **Gene Information:**

Gene: BabyJohn\_35 Start: 27894, Stop: 27706, Start Num: 11

Candidate Starts for BabyJohn\_35:

(4, 28092), (Start: 11 @27894 has 1 MA's),

Gene: BennyP\_40 Start: 26382, Stop: 26224, Start Num: 13

Candidate Starts for BennyP\_40:

(5, 26616), (Start: 8 @26469 has 2 MA's), (10, 26424), (Start: 13 @26382 has 4 MA's), (14, 26355),

Gene: Bigflo\_41 Start: 28347, Stop: 28192, Start Num: 13

Candidate Starts for Bigflo\_41:

(3, 28602), (6, 28575), (7, 28530), (12, 28359), (Start: 13 @28347 has 4 MA's),

Gene: Calvinny\_41 Start: 28173, Stop: 28018, Start Num: 13

Candidate Starts for Calvinny\_41:

(1, 28629), (3, 28428), (6, 28401), (7, 28356), (12, 28185), (Start: 13 @28173 has 4 MA's),

Gene: Candra\_40 Start: 26418, Stop: 26260, Start Num: 13

Candidate Starts for Candra\_40:

(5, 26652), (Start: 8 @26505 has 2 MA's), (10, 26460), (Start: 13 @26418 has 4 MA's), (14, 26391),

Gene: Chiqui\_35 Start: 27903, Stop: 27715, Start Num: 11

Candidate Starts for Chiqui\_35:

(4, 28101), (Start: 11 @27903 has 1 MA's),

Gene: ClownCar\_41 Start: 28165, Stop: 28010, Start Num: 13

Candidate Starts for ClownCar\_41:

(3, 28420), (6, 28393), (7, 28348), (12, 28177), (Start: 13 @28165 has 4 MA's),

Gene: Colbster\_41 Start: 28348, Stop: 28193, Start Num: 13

Candidate Starts for Colbster\_41:

(3, 28603), (6, 28576), (7, 28531), (12, 28360), (Start: 13 @28348 has 4 MA's),

Gene: Croquant\_42 Start: 28346, Stop: 28191, Start Num: 13

Candidate Starts for Croquant\_42:

(3, 28601), (6, 28574), (7, 28529), (12, 28358), (Start: 13 @28346 has 4 MA's),

Gene: DaVinci\_40 Start: 26470, Stop: 26225, Start Num: 8

Candidate Starts for DaVinci\_40:

(5, 26617), (Start: 8 @26470 has 2 MA's), (10, 26425), (Start: 13 @26383 has 4 MA's), (14, 26356),

Gene: DelvinSonDorr\_39 Start: 26378, Stop: 26220, Start Num: 13

Candidate Starts for DelvinSonDorr\_39:

(5, 26612), (Start: 8 @26465 has 2 MA's), (10, 26420), (Start: 13 @26378 has 4 MA's), (14, 26351),

Gene: DropBear\_36 Start: 27668, Stop: 27480, Start Num: 11

Candidate Starts for DropBear\_36:

(4, 27866), (Start: 11 @27668 has 1 MA's),

Gene: EricB\_40 Start: 26375, Stop: 26217, Start Num: 13

Candidate Starts for EricB\_40:

(5, 26609), (Start: 8 @26462 has 2 MA's), (10, 26417), (Start: 13 @26375 has 4 MA's), (14, 26348),

Gene: EtoileNova\_36 Start: 27630, Stop: 27385, Start Num: 9

Candidate Starts for EtoileNova\_36:

(5, 27816), (6, 27813), (7, 27768), (9, 27630), (17, 27453),

Gene: Garak\_41 Start: 26383, Stop: 26225, Start Num: 13

Candidate Starts for Garak\_41:

(5, 26617), (Start: 8 @26470 has 2 MA's), (10, 26425), (Start: 13 @26383 has 4 MA's), (14, 26356),

Gene: GreedyLawyer\_40 Start: 26469, Stop: 26224, Start Num: 8

Candidate Starts for GreedyLawyer\_40:

(5, 26616), (Start: 8 @26469 has 2 MA's), (10, 26424), (Start: 13 @26382 has 4 MA's), (14, 26355),

Gene: Gwennie\_40 Start: 28348, Stop: 28193, Start Num: 13

Candidate Starts for Gwennie\_40:

(3, 28603), (6, 28576), (7, 28531), (12, 28360), (Start: 13 @28348 has 4 MA's),

Gene: Lowa\_41 Start: 28340, Stop: 28185, Start Num: 13

Candidate Starts for Lowa\_41:

(3, 28595), (6, 28568), (7, 28523), (12, 28352), (Start: 13 @28340 has 4 MA's),

Gene: Montavir\_40 Start: 28348, Stop: 28193, Start Num: 13

Candidate Starts for Montavir\_40:

(3, 28603), (6, 28576), (7, 28531), (12, 28360), (Start: 13 @28348 has 4 MA's),

Gene: PP\_42 Start: 32157, Stop: 31975, Start Num: 11

Candidate Starts for PP\_42:

(2, 32478), (4, 32358), (Start: 11 @32157 has 1 MA's), (14, 32097), (15, 32001), (16, 31992),

Gene: Pmask\_40 Start: 26376, Stop: 26218, Start Num: 13

Candidate Starts for Pmask\_40:

(5, 26610), (Start: 8 @26463 has 2 MA's), (10, 26418), (Start: 13 @26376 has 4 MA's), (14, 26349),

Gene: SuperCallie99\_40 Start: 26374, Stop: 26216, Start Num: 13

Candidate Starts for SuperCallie99\_40:

(5, 26608), (Start: 8 @26461 has 2 MA's), (10, 26416), (Start: 13 @26374 has 4 MA's), (14, 26347),

Gene: Travvers\_40 Start: 27752, Stop: 27597, Start Num: 13

Candidate Starts for Travvers\_40:

(5, 27983), (Start: 13 @27752 has 4 MA's),

Gene: Zarafa\_36 Start: 27670, Stop: 27482, Start Num: 11

Candidate Starts for Zarafa\_36:

(4, 27868), (Start: 11 @27670 has 1 MA's),