



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 86775 Report

This analysis was run 04/05/24 on database version 557.

Pham number 86775 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Agueybana\_36
- Track 2 : Nadeem\_35, Bock\_35, NancyRae\_35, BetterKatz\_35, Brylie\_35, Parada\_35, GrandSlam\_35, Mulch\_35, Pimento\_34, WheatThin\_35, Ayotoya\_35, Chop\_35
- Track 3 : Francois\_35
- Track 4 : Babsiella\_31, HC\_32
- Track 5 : Phrann\_34
- Track 6 : IdentityCrisis\_33

### ***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 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agueybana\_36, Ayotoya\_35, Babsiella\_31, BetterKatz\_35, Bock\_35, Brylie\_35, Chop\_35, Francois\_35, GrandSlam\_35, HC\_32, IdentityCrisis\_33, Mulch\_35, Nadeem\_35, NancyRae\_35, Parada\_35, Pimento\_34, WheatThin\_35,

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

- Phrann\_34,

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

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

Start 1:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrann\_34 (N),

Start 2:

- Found in 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 17
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Agueybana\_36 (CZ1), Ayotoya\_35 (DI), Babsiella\_31 (I1), BetterKatz\_35 (DI), Bock\_35 (DI), Brylie\_35 (DI), Chop\_35 (DI), Francois\_35 (DI), GrandSlam\_35 (DI), HC\_32 (I1), IdentityCrisis\_33 (singleton), Mulch\_35 (DI), Nadeem\_35 (DI), NancyRae\_35 (DI), Parada\_35 (DI), Pimento\_34 (DI), WheatThin\_35 (DI),

### **Summary by clusters:**

There are 5 clusters represented in this pham: I1, singleton, N, CZ1, DI,

Info for manual annotations of cluster CZ1:

- Start number 2 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster DI:

- Start number 2 was manually annotated 12 times for cluster DI.

Info for manual annotations of cluster I1:

- Start number 2 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster N:

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

### **Gene Information:**

Gene: Agueybana\_36 Start: 29595, Stop: 29386, Start Num: 2

Candidate Starts for Agueybana\_36:

(Start: 2 @29595 has 16 MA's), (3, 29565), (4, 29508), (8, 29436),

Gene: Ayotoya\_35 Start: 29282, Stop: 29061, Start Num: 2

Candidate Starts for Ayotoya\_35:

(Start: 2 @29282 has 16 MA's), (4, 29183), (5, 29147), (6, 29144), (9, 29102),

Gene: Babsiella\_31 Start: 26642, Stop: 26427, Start Num: 2

Candidate Starts for Babsiella\_31:

(Start: 2 @26642 has 16 MA's), (3, 26612), (4, 26555), (5, 26519),

Gene: BetterKatz\_35 Start: 28751, Stop: 28530, Start Num: 2

Candidate Starts for BetterKatz\_35:

(Start: 2 @28751 has 16 MA's), (4, 28652), (5, 28616), (6, 28613), (9, 28571),

Gene: Bock\_35 Start: 28502, Stop: 28281, Start Num: 2

Candidate Starts for Bock\_35:

(Start: 2 @28502 has 16 MA's), (4, 28403), (5, 28367), (6, 28364), (9, 28322),

Gene: Brylie\_35 Start: 28490, Stop: 28269, Start Num: 2

Candidate Starts for Brylie\_35:

(Start: 2 @28490 has 16 MA's), (4, 28391), (5, 28355), (6, 28352), (9, 28310),

Gene: Chop\_35 Start: 29030, Stop: 28809, Start Num: 2  
Candidate Starts for Chop\_35:  
(Start: 2 @29030 has 16 MA's), (4, 28931), (5, 28895), (6, 28892), (9, 28850),

Gene: Francois\_35 Start: 28545, Stop: 28324, Start Num: 2  
Candidate Starts for Francois\_35:  
(Start: 2 @28545 has 16 MA's), (5, 28410), (9, 28365),

Gene: GrandSlam\_35 Start: 29030, Stop: 28809, Start Num: 2  
Candidate Starts for GrandSlam\_35:  
(Start: 2 @29030 has 16 MA's), (4, 28931), (5, 28895), (6, 28892), (9, 28850),

Gene: HC\_32 Start: 26698, Stop: 26483, Start Num: 2  
Candidate Starts for HC\_32:  
(Start: 2 @26698 has 16 MA's), (3, 26668), (4, 26611), (5, 26575),

Gene: IdentityCrisis\_33 Start: 25958, Stop: 25740, Start Num: 2  
Candidate Starts for IdentityCrisis\_33:  
(Start: 2 @25958 has 16 MA's), (4, 25871), (5, 25835),

Gene: Mulch\_35 Start: 28490, Stop: 28269, Start Num: 2  
Candidate Starts for Mulch\_35:  
(Start: 2 @28490 has 16 MA's), (4, 28391), (5, 28355), (6, 28352), (9, 28310),

Gene: Nadeem\_35 Start: 28490, Stop: 28269, Start Num: 2  
Candidate Starts for Nadeem\_35:  
(Start: 2 @28490 has 16 MA's), (4, 28391), (5, 28355), (6, 28352), (9, 28310),

Gene: NancyRae\_35 Start: 28500, Stop: 28279, Start Num: 2  
Candidate Starts for NancyRae\_35:  
(Start: 2 @28500 has 16 MA's), (4, 28401), (5, 28365), (6, 28362), (9, 28320),

Gene: Parada\_35 Start: 28490, Stop: 28269, Start Num: 2  
Candidate Starts for Parada\_35:  
(Start: 2 @28490 has 16 MA's), (4, 28391), (5, 28355), (6, 28352), (9, 28310),

Gene: Phrann\_34 Start: 28016, Stop: 27798, Start Num: 1  
Candidate Starts for Phrann\_34:  
(Start: 1 @28016 has 1 MA's), (Start: 2 @28013 has 16 MA's), (3, 27983), (5, 27890), (7, 27857),

Gene: Pimento\_34 Start: 28149, Stop: 27928, Start Num: 2  
Candidate Starts for Pimento\_34:  
(Start: 2 @28149 has 16 MA's), (4, 28050), (5, 28014), (6, 28011), (9, 27969),

Gene: WheatThin\_35 Start: 28490, Stop: 28269, Start Num: 2  
Candidate Starts for WheatThin\_35:  
(Start: 2 @28490 has 16 MA's), (4, 28391), (5, 28355), (6, 28352), (9, 28310),