



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 163822 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163822 has 31 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Jambalaya\_18, KimmyK\_20, YungMoney\_20, RogerDodger\_21, Twister6\_20, TillyBobJoe\_18, PinkCoffee\_20, Arri\_21, Nubi\_18, Danyall\_20, Savbucketdawg\_18, Shinji\_18, Fugax\_20, SmokingBunny\_18, Portcullis\_18, VanDeWege\_21, Barb\_20, Halo3\_19, Evamon\_18, Togo\_18, ClamChowder\_20, Phlop\_18, PullumCavea\_18
- Track 2 : Wizard\_18, Gezellig\_19, Fireball\_19
- Track 3 : Bakery\_19, Salvador\_18, Valary\_21
- Track 4 : Clown\_22, Mutzi\_20

### ***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 26 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_21, Barb\_20, ClamChowder\_20, Clown\_22, Danyall\_20, Evamon\_18, Fireball\_19, Fugax\_20, Gezellig\_19, Halo3\_19, Jambalaya\_18, KimmyK\_20, Mutzi\_20, Nubi\_18, Phlop\_18, PinkCoffee\_20, Portcullis\_18, PullumCavea\_18, RogerDodger\_21, Savbucketdawg\_18, Shinji\_18, SmokingBunny\_18, TillyBobJoe\_18, Togo\_18, Twister6\_20, VanDeWege\_21, Wizard\_18, YungMoney\_20,

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

- Bakery\_19, Salvador\_18, Valary\_21,

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

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

Start 1:

- Found in 28 of 31 ( 90.3% ) of genes in pham
- Manual Annotations of this start: 3 of 29
- Called 10.7% of time when present

- Phage (with cluster) where this start called: Bakery\_19 (DC1), Salvador\_18 (DC1), Valary\_21 (DC1),

#### Start 2:

- Found in 31 of 31 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 26 of 29
- Called 90.3% of time when present
- Phage (with cluster) where this start called: Arri\_21 (DC1), Barb\_20 (DC1), ClamChowder\_20 (DC1), Clown\_22 (DC2), Danyall\_20 (DC1), Evamon\_18 (DC1), Fireball\_19 (DC1), Fugax\_20 (DC1), Gezellig\_19 (DC1), Halo3\_19 (DC1), Jambalaya\_18 (DC1), KimmyK\_20 (DC1), Mutzi\_20 (DC1), Nubi\_18 (DC1), Phlop\_18 (DC1), PinkCoffee\_20 (DC1), Portcullis\_18 (DC1), PullumCavea\_18 (DC1), RogerDodger\_21 (DC1), Savbucketdawg\_18 (DC1), Shinji\_18 (DC1), SmokingBunny\_18 (DC1), TillyBobJoe\_18 (DC1), Togo\_18 (DC1), Twister6\_20 (DC1), VanDeWege\_21 (DC1), Wizard\_18 (DC1), YungMoney\_20 (DC1),

#### Summary by clusters:

There are 2 clusters represented in this pham: DC2, DC1,

Info for manual annotations of cluster DC1:

- Start number 1 was manually annotated 3 times for cluster DC1.
- Start number 2 was manually annotated 25 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 2 was manually annotated 1 time for cluster DC2.

#### Gene Information:

Gene: Arri\_21 Start: 12300, Stop: 12446, Start Num: 2

Candidate Starts for Arri\_21:

(Start: 1 @12297 has 3 MA's), (Start: 2 @12300 has 26 MA's), (5, 12342),

Gene: Bakery\_19 Start: 11498, Stop: 11644, Start Num: 1

Candidate Starts for Bakery\_19:

(Start: 1 @11498 has 3 MA's), (Start: 2 @11501 has 26 MA's), (5, 11540),

Gene: Barb\_20 Start: 12278, Stop: 12421, Start Num: 2

Candidate Starts for Barb\_20:

(Start: 1 @12275 has 3 MA's), (Start: 2 @12278 has 26 MA's), (5, 12317),

Gene: ClamChowder\_20 Start: 12278, Stop: 12421, Start Num: 2

Candidate Starts for ClamChowder\_20:

(Start: 1 @12275 has 3 MA's), (Start: 2 @12278 has 26 MA's), (5, 12317),

Gene: Clown\_22 Start: 14288, Stop: 14431, Start Num: 2

Candidate Starts for Clown\_22:

(Start: 1 @14285 has 3 MA's), (Start: 2 @14288 has 26 MA's), (3, 14315), (4, 14321), (5, 14327),

Gene: Danyall\_20 Start: 12135, Stop: 12278, Start Num: 2

Candidate Starts for Danyall\_20:

(Start: 1 @12132 has 3 MA's), (Start: 2 @12135 has 26 MA's), (5, 12174),

Gene: Evamon\_18 Start: 11610, Stop: 11753, Start Num: 2

Candidate Starts for Evamon\_18:

(Start: 1 @11607 has 3 MA's), (Start: 2 @11610 has 26 MA's), (5, 11649),

Gene: Fireball\_19 Start: 11748, Stop: 11891, Start Num: 2

Candidate Starts for Fireball\_19:

(Start: 2 @11748 has 26 MA's), (5, 11787),

Gene: Fugax\_20 Start: 12278, Stop: 12421, Start Num: 2

Candidate Starts for Fugax\_20:

(Start: 1 @12275 has 3 MA's), (Start: 2 @12278 has 26 MA's), (5, 12317),

Gene: Gezellig\_19 Start: 11748, Stop: 11891, Start Num: 2

Candidate Starts for Gezellig\_19:

(Start: 2 @11748 has 26 MA's), (5, 11787),

Gene: Halo3\_19 Start: 12063, Stop: 12206, Start Num: 2

Candidate Starts for Halo3\_19:

(Start: 1 @12060 has 3 MA's), (Start: 2 @12063 has 26 MA's), (5, 12102),

Gene: Jambalaya\_18 Start: 11401, Stop: 11544, Start Num: 2

Candidate Starts for Jambalaya\_18:

(Start: 1 @11398 has 3 MA's), (Start: 2 @11401 has 26 MA's), (5, 11440),

Gene: KimmyK\_20 Start: 12278, Stop: 12421, Start Num: 2

Candidate Starts for KimmyK\_20:

(Start: 1 @12275 has 3 MA's), (Start: 2 @12278 has 26 MA's), (5, 12317),

Gene: Mutzi\_20 Start: 12002, Stop: 12145, Start Num: 2

Candidate Starts for Mutzi\_20:

(Start: 1 @11999 has 3 MA's), (Start: 2 @12002 has 26 MA's), (3, 12029), (4, 12035), (5, 12041),

Gene: Nubi\_18 Start: 11630, Stop: 11773, Start Num: 2

Candidate Starts for Nubi\_18:

(Start: 1 @11627 has 3 MA's), (Start: 2 @11630 has 26 MA's), (5, 11669),

Gene: Phlop\_18 Start: 11703, Stop: 11846, Start Num: 2

Candidate Starts for Phlop\_18:

(Start: 1 @11700 has 3 MA's), (Start: 2 @11703 has 26 MA's), (5, 11742),

Gene: PinkCoffee\_20 Start: 12287, Stop: 12430, Start Num: 2

Candidate Starts for PinkCoffee\_20:

(Start: 1 @12284 has 3 MA's), (Start: 2 @12287 has 26 MA's), (5, 12326),

Gene: Portcullis\_18 Start: 11649, Stop: 11792, Start Num: 2

Candidate Starts for Portcullis\_18:

(Start: 1 @11646 has 3 MA's), (Start: 2 @11649 has 26 MA's), (5, 11688),

Gene: PullumCavea\_18 Start: 11703, Stop: 11846, Start Num: 2

Candidate Starts for PullumCavea\_18:

(Start: 1 @11700 has 3 MA's), (Start: 2 @11703 has 26 MA's), (5, 11742),

Gene: RogerDodger\_21 Start: 12499, Stop: 12642, Start Num: 2  
Candidate Starts for RogerDodger\_21:  
(Start: 1 @12496 has 3 MA's), (Start: 2 @12499 has 26 MA's), (5, 12538),

Gene: Salvador\_18 Start: 11605, Stop: 11751, Start Num: 1  
Candidate Starts for Salvador\_18:  
(Start: 1 @11605 has 3 MA's), (Start: 2 @11608 has 26 MA's), (5, 11647),

Gene: Savbucketdawg\_18 Start: 11401, Stop: 11544, Start Num: 2  
Candidate Starts for Savbucketdawg\_18:  
(Start: 1 @11398 has 3 MA's), (Start: 2 @11401 has 26 MA's), (5, 11440),

Gene: Shinji\_18 Start: 11590, Stop: 11733, Start Num: 2  
Candidate Starts for Shinji\_18:  
(Start: 1 @11587 has 3 MA's), (Start: 2 @11590 has 26 MA's), (5, 11629),

Gene: SmokingBunny\_18 Start: 11608, Stop: 11751, Start Num: 2  
Candidate Starts for SmokingBunny\_18:  
(Start: 1 @11605 has 3 MA's), (Start: 2 @11608 has 26 MA's), (5, 11647),

Gene: TillyBobJoe\_18 Start: 11404, Stop: 11547, Start Num: 2  
Candidate Starts for TillyBobJoe\_18:  
(Start: 1 @11401 has 3 MA's), (Start: 2 @11404 has 26 MA's), (5, 11443),

Gene: Togo\_18 Start: 11608, Stop: 11751, Start Num: 2  
Candidate Starts for Togo\_18:  
(Start: 1 @11605 has 3 MA's), (Start: 2 @11608 has 26 MA's), (5, 11647),

Gene: Twister6\_20 Start: 12046, Stop: 12189, Start Num: 2  
Candidate Starts for Twister6\_20:  
(Start: 1 @12043 has 3 MA's), (Start: 2 @12046 has 26 MA's), (5, 12085),

Gene: Valary\_21 Start: 12496, Stop: 12642, Start Num: 1  
Candidate Starts for Valary\_21:  
(Start: 1 @12496 has 3 MA's), (Start: 2 @12499 has 26 MA's), (5, 12538),

Gene: VanDeWege\_21 Start: 12427, Stop: 12570, Start Num: 2  
Candidate Starts for VanDeWege\_21:  
(Start: 1 @12424 has 3 MA's), (Start: 2 @12427 has 26 MA's), (5, 12466),

Gene: Wizard\_18 Start: 11748, Stop: 11891, Start Num: 2  
Candidate Starts for Wizard\_18:  
(Start: 2 @11748 has 26 MA's), (5, 11787),

Gene: YungMoney\_20 Start: 13058, Stop: 13201, Start Num: 2  
Candidate Starts for YungMoney\_20:  
(Start: 1 @13055 has 3 MA's), (Start: 2 @13058 has 26 MA's), (5, 13097),