



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 163820 Report

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

Pham number 163820 has 31 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Nubi\_25, Portcullis\_25, KimmyK\_27, Togo\_25, Halo3\_26, Fireball\_26, RogerDodger\_28, Twister6\_27, Evamon\_25, Phlop\_25, Danyall\_27, Arri\_28, Fugax\_27, Savbucketdawg\_25, Salvador\_25, PullumCavea\_25, Barb\_27, Wizard\_25, VanDeWege\_28, Jambalaya\_25, Valary\_28, PinkCoffee\_27, TillyBobJoe\_25, ClamChowder\_27, SmokingBunny\_25, Gezellig\_26, Shinji\_25
- Track 2 : YungMoney\_27, Mutzi\_27, Bakery\_26
- Track 3 : Clown\_29

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

The start number called the most often in the published annotations is 1, it was called in 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_28, Bakery\_26, Barb\_27, ClamChowder\_27, Clown\_29, Danyall\_27, Evamon\_25, Fireball\_26, Fugax\_27, Gezellig\_26, Halo3\_26, Jambalaya\_25, KimmyK\_27, Mutzi\_27, Nubi\_25, Phlop\_25, PinkCoffee\_27, Portcullis\_25, PullumCavea\_25, RogerDodger\_28, Salvador\_25, Savbucketdawg\_25, Shinji\_25, SmokingBunny\_25, TillyBobJoe\_25, Togo\_25, Twister6\_27, Valary\_28, VanDeWege\_28, Wizard\_25, YungMoney\_27,

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 1:

- Found in 31 of 31 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 29 of 29
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Arri\_28 (DC1), Bakery\_26 (DC1), Barb\_27 (DC1), ClamChowder\_27 (DC1), Clown\_29 (DC2), Danyall\_27 (DC1), Evamon\_25 (DC1), Fireball\_26 (DC1), Fugax\_27 (DC1), Gezellig\_26 (DC1), Halo3\_26 (DC1), Jambalaya\_25 (DC1), KimmyK\_27 (DC1), Mutzi\_27 (DC1), Nubi\_25 (DC1), Phlop\_25 (DC1), PinkCoffee\_27 (DC1), Portcullis\_25 (DC1), PullumCavea\_25 (DC1), RogerDodger\_28 (DC1), Salvador\_25 (DC1), Savbucketdawg\_25 (DC1), Shinji\_25 (DC1), SmokingBunny\_25 (DC1), TillyBobJoe\_25 (DC1), Togo\_25 (DC1), Twister6\_27 (DC1), Valary\_28 (DC1), VanDeWege\_28 (DC1), Wizard\_25 (DC1), YungMoney\_27 (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 28 times for cluster DC1.

Info for manual annotations of cluster DC2:

•Start number 1 was manually annotated 1 time for cluster DC2.

### **Gene Information:**

Gene: Arri\_28 Start: 17970, Stop: 18263, Start Num: 1

Candidate Starts for Arri\_28:

(Start: 1 @17970 has 29 MA's), (2, 17979), (3, 18027), (4, 18030), (5, 18063),

Gene: Bakery\_26 Start: 17158, Stop: 17517, Start Num: 1

Candidate Starts for Bakery\_26:

(Start: 1 @17158 has 29 MA's), (2, 17167), (3, 17215), (4, 17218), (6, 17269),

Gene: Barb\_27 Start: 18003, Stop: 18296, Start Num: 1

Candidate Starts for Barb\_27:

(Start: 1 @18003 has 29 MA's), (2, 18012), (3, 18060), (4, 18063), (5, 18096),

Gene: ClamChowder\_27 Start: 18003, Stop: 18296, Start Num: 1

Candidate Starts for ClamChowder\_27:

(Start: 1 @18003 has 29 MA's), (2, 18012), (3, 18060), (4, 18063), (5, 18096),

Gene: Clown\_29 Start: 19947, Stop: 20237, Start Num: 1

Candidate Starts for Clown\_29:

(Start: 1 @19947 has 29 MA's), (3, 20004), (4, 20007), (7, 20118), (8, 20148),

Gene: Danyall\_27 Start: 17803, Stop: 18096, Start Num: 1

Candidate Starts for Danyall\_27:

(Start: 1 @17803 has 29 MA's), (2, 17812), (3, 17860), (4, 17863), (5, 17896),

Gene: Evamon\_25 Start: 17289, Stop: 17582, Start Num: 1

Candidate Starts for Evamon\_25:

(Start: 1 @17289 has 29 MA's), (2, 17298), (3, 17346), (4, 17349), (5, 17382),

Gene: Fireball\_26 Start: 17421, Stop: 17714, Start Num: 1

Candidate Starts for Fireball\_26:

(Start: 1 @17421 has 29 MA's), (2, 17430), (3, 17478), (4, 17481), (5, 17514),

Gene: Fugax\_27 Start: 18003, Stop: 18296, Start Num: 1

Candidate Starts for Fugax\_27:

(Start: 1 @18003 has 29 MA's), (2, 18012), (3, 18060), (4, 18063), (5, 18096),

Gene: Gezellig\_26 Start: 17421, Stop: 17714, Start Num: 1

Candidate Starts for Gezellig\_26:

(Start: 1 @17421 has 29 MA's), (2, 17430), (3, 17478), (4, 17481), (5, 17514),

Gene: Halo3\_26 Start: 17714, Stop: 18007, Start Num: 1

Candidate Starts for Halo3\_26:

(Start: 1 @17714 has 29 MA's), (2, 17723), (3, 17771), (4, 17774), (5, 17807),

Gene: Jambalaya\_25 Start: 17068, Stop: 17361, Start Num: 1

Candidate Starts for Jambalaya\_25:

(Start: 1 @17068 has 29 MA's), (2, 17077), (3, 17125), (4, 17128), (5, 17161),

Gene: KimmyK\_27 Start: 18003, Stop: 18296, Start Num: 1

Candidate Starts for KimmyK\_27:

(Start: 1 @18003 has 29 MA's), (2, 18012), (3, 18060), (4, 18063), (5, 18096),

Gene: Mutzi\_27 Start: 17666, Stop: 18037, Start Num: 1

Candidate Starts for Mutzi\_27:

(Start: 1 @17666 has 29 MA's), (2, 17675), (3, 17723), (4, 17726), (6, 17777),

Gene: Nubi\_25 Start: 17309, Stop: 17602, Start Num: 1

Candidate Starts for Nubi\_25:

(Start: 1 @17309 has 29 MA's), (2, 17318), (3, 17366), (4, 17369), (5, 17402),

Gene: Phlop\_25 Start: 17373, Stop: 17666, Start Num: 1

Candidate Starts for Phlop\_25:

(Start: 1 @17373 has 29 MA's), (2, 17382), (3, 17430), (4, 17433), (5, 17466),

Gene: PinkCoffee\_27 Start: 18012, Stop: 18305, Start Num: 1

Candidate Starts for PinkCoffee\_27:

(Start: 1 @18012 has 29 MA's), (2, 18021), (3, 18069), (4, 18072), (5, 18105),

Gene: Portcullis\_25 Start: 17316, Stop: 17609, Start Num: 1

Candidate Starts for Portcullis\_25:

(Start: 1 @17316 has 29 MA's), (2, 17325), (3, 17373), (4, 17376), (5, 17409),

Gene: PullumCavea\_25 Start: 17373, Stop: 17666, Start Num: 1

Candidate Starts for PullumCavea\_25:

(Start: 1 @17373 has 29 MA's), (2, 17382), (3, 17430), (4, 17433), (5, 17466),

Gene: RogerDodger\_28 Start: 18166, Stop: 18459, Start Num: 1

Candidate Starts for RogerDodger\_28:

(Start: 1 @18166 has 29 MA's), (2, 18175), (3, 18223), (4, 18226), (5, 18259),

Gene: Salvador\_25 Start: 17287, Stop: 17580, Start Num: 1

Candidate Starts for Salvador\_25:

(Start: 1 @17287 has 29 MA's), (2, 17296), (3, 17344), (4, 17347), (5, 17380),

Gene: Savbucketdawg\_25 Start: 17068, Stop: 17361, Start Num: 1

Candidate Starts for Savbucketdawg\_25:

(Start: 1 @17068 has 29 MA's), (2, 17077), (3, 17125), (4, 17128), (5, 17161),

Gene: Shinji\_25 Start: 17257, Stop: 17550, Start Num: 1

Candidate Starts for Shinji\_25:

(Start: 1 @17257 has 29 MA's), (2, 17266), (3, 17314), (4, 17317), (5, 17350),

Gene: SmokingBunny\_25 Start: 17287, Stop: 17580, Start Num: 1

Candidate Starts for SmokingBunny\_25:

(Start: 1 @17287 has 29 MA's), (2, 17296), (3, 17344), (4, 17347), (5, 17380),

Gene: TillyBobJoe\_25 Start: 17071, Stop: 17364, Start Num: 1

Candidate Starts for TillyBobJoe\_25:

(Start: 1 @17071 has 29 MA's), (2, 17080), (3, 17128), (4, 17131), (5, 17164),

Gene: Togo\_25 Start: 17287, Stop: 17580, Start Num: 1

Candidate Starts for Togo\_25:

(Start: 1 @17287 has 29 MA's), (2, 17296), (3, 17344), (4, 17347), (5, 17380),

Gene: Twister6\_27 Start: 17714, Stop: 18007, Start Num: 1

Candidate Starts for Twister6\_27:

(Start: 1 @17714 has 29 MA's), (2, 17723), (3, 17771), (4, 17774), (5, 17807),

Gene: Valary\_28 Start: 18220, Stop: 18513, Start Num: 1

Candidate Starts for Valary\_28:

(Start: 1 @18220 has 29 MA's), (2, 18229), (3, 18277), (4, 18280), (5, 18313),

Gene: VanDeWege\_28 Start: 18095, Stop: 18388, Start Num: 1

Candidate Starts for VanDeWege\_28:

(Start: 1 @18095 has 29 MA's), (2, 18104), (3, 18152), (4, 18155), (5, 18188),

Gene: Wizard\_25 Start: 17421, Stop: 17714, Start Num: 1

Candidate Starts for Wizard\_25:

(Start: 1 @17421 has 29 MA's), (2, 17430), (3, 17478), (4, 17481), (5, 17514),

Gene: YungMoney\_27 Start: 18709, Stop: 19080, Start Num: 1

Candidate Starts for YungMoney\_27:

(Start: 1 @18709 has 29 MA's), (2, 18718), (3, 18766), (4, 18769), (6, 18820),