

Pham 158080



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 158080 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158080 has 30 members, 2 are drafts.

Phages represented in each track:

- Track 1 : ClamChowder\_80, Barb\_80, Fugax\_81
- Track 2 : VanDeWege\_79
- Track 3 : Nubi\_76
- Track 4 : PinkCoffee\_79, Danyall\_78
- Track 5 : Jambalaya\_74
- Track 6 : Togo\_77, SmokingBunny\_78, Salvador\_77, Evamon\_77, Twister6\_78
- Track 7 : Valary\_78, Gezellig\_77, KimmyK\_77, Halo3\_75, Savbucketdawg\_73, Wizard\_74
- Track 8 : Shinji\_76
- Track 9 : Portcullis\_78
- Track 10 : PullumCavea\_76, Phlop\_75
- Track 11 : Mutzi\_75, YungMoney\_76
- Track 12 : Arri\_78
- Track 13 : RogerDodger\_81
- Track 14 : Fireball\_80
- Track 15 : Bakery\_82
- Track 16 : Clown\_81

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

The start number called the most often in the published annotations is 9, it was called in 27 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_78, Bakery\_82, Barb\_80, ClamChowder\_80, Danyall\_78, Evamon\_77, Fireball\_80, Fugax\_81, Gezellig\_77, Halo3\_75, Jambalaya\_74, KimmyK\_77, Mutzi\_75, Nubi\_76, Phlop\_75, PinkCoffee\_79, Portcullis\_78, PullumCavea\_76, RogerDodger\_81, Salvador\_77, Savbucketdawg\_73, Shinji\_76, SmokingBunny\_78, Togo\_77, Twister6\_78, Valary\_78, VanDeWege\_79, Wizard\_74, YungMoney\_76,

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

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

- Clown\_81,

### Summary by start number:

#### Start 9:

- Found in 29 of 30 ( 96.7% ) of genes in pham
- Manual Annotations of this start: 27 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri\_78 (DC1), Bakery\_82 (DC1), Barb\_80 (DC1), ClamChowder\_80 (DC1), Danyall\_78 (DC1), Evamon\_77 (DC1), Fireball\_80 (DC1), Fugax\_81 (DC1), Gezellig\_77 (DC1), Halo3\_75 (DC1), Jambalaya\_74 (DC1), KimmyK\_77 (DC1), Mutzi\_75 (DC1), Nubi\_76 (DC1), Phlop\_75 (DC1), PinkCoffee\_79 (DC1), Portcullis\_78 (DC1), PullumCavea\_76 (DC1), RogerDodger\_81 (DC1), Salvador\_77 (DC1), Savbucketdawg\_73 (DC1), Shinji\_76 (DC1), SmokingBunny\_78 (DC1), Togo\_77 (DC1), Twister6\_78 (DC1), Valary\_78 (DC1), VanDeWege\_79 (DC1), Wizard\_74 (DC1), YungMoney\_76 (DC1),

#### Start 12:

- Found in 2 of 30 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Clown\_81 (DC2),

### Summary by clusters:

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

Info for manual annotations of cluster DC1:

- Start number 9 was manually annotated 27 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 12 was manually annotated 1 time for cluster DC2.

### Gene Information:

Gene: Arri\_78 Start: 52104, Stop: 52541, Start Num: 9

Candidate Starts for Arri\_78:

(Start: 9 @52104 has 27 MA's), (19, 52299), (29, 52410), (32, 52482), (34, 52503),

Gene: Bakery\_82 Start: 54222, Stop: 54641, Start Num: 9

Candidate Starts for Bakery\_82:

(4, 54159), (7, 54192), (Start: 9 @54222 has 27 MA's), (17, 54384), (22, 54441), (29, 54510), (30, 54516), (32, 54582), (34, 54603),

Gene: Barb\_80 Start: 52298, Stop: 52693, Start Num: 9

Candidate Starts for Barb\_80:

(Start: 9 @52298 has 27 MA's), (13, 52379), (15, 52400), (32, 52628), (34, 52649),

Gene: ClamChowder\_80 Start: 52298, Stop: 52693, Start Num: 9

Candidate Starts for ClamChowder\_80:

(Start: 9 @52298 has 27 MA's), (13, 52379), (15, 52400), (32, 52628), (34, 52649),

Gene: Clown\_81 Start: 53319, Stop: 53657, Start Num: 12

Candidate Starts for Clown\_81:

(6, 53202), (Start: 12 @53319 has 1 MA's), (14, 53349), (18, 53412), (20, 53439), (25, 53475), (28, 53523), (31, 53544), (32, 53598), (33, 53607), (34, 53619),

Gene: Danyall\_78 Start: 51674, Stop: 52084, Start Num: 9

Candidate Starts for Danyall\_78:

(Start: 9 @51674 has 27 MA's), (19, 51842), (29, 51953), (30, 51959), (32, 52025), (34, 52046),

Gene: Evamon\_77 Start: 51863, Stop: 52306, Start Num: 9

Candidate Starts for Evamon\_77:

(Start: 9 @51863 has 27 MA's), (17, 52025), (26, 52115), (32, 52247), (34, 52268),

Gene: Fireball\_80 Start: 52450, Stop: 52869, Start Num: 9

Candidate Starts for Fireball\_80:

(Start: 9 @52450 has 27 MA's), (16, 52573), (17, 52612), (22, 52669), (29, 52738), (30, 52744), (32, 52810), (34, 52831),

Gene: Fugax\_81 Start: 52290, Stop: 52685, Start Num: 9

Candidate Starts for Fugax\_81:

(Start: 9 @52290 has 27 MA's), (13, 52371), (15, 52392), (32, 52620), (34, 52641),

Gene: Gezellig\_77 Start: 51715, Stop: 52134, Start Num: 9

Candidate Starts for Gezellig\_77:

(1, 51523), (2, 51577), (3, 51595), (5, 51646), (8, 51703), (Start: 9 @51715 has 27 MA's), (16, 51838), (17, 51877), (22, 51934), (29, 52003), (30, 52009), (32, 52075), (34, 52096),

Gene: Halo3\_75 Start: 52300, Stop: 52719, Start Num: 9

Candidate Starts for Halo3\_75:

(1, 52108), (2, 52162), (3, 52180), (5, 52231), (8, 52288), (Start: 9 @52300 has 27 MA's), (16, 52423), (17, 52462), (22, 52519), (29, 52588), (30, 52594), (32, 52660), (34, 52681),

Gene: Jambalaya\_74 Start: 50973, Stop: 51362, Start Num: 9

Candidate Starts for Jambalaya\_74:

(Start: 9 @50973 has 27 MA's), (17, 51135), (23, 51198), (30, 51237), (34, 51324),

Gene: KimmyK\_77 Start: 52162, Stop: 52581, Start Num: 9

Candidate Starts for KimmyK\_77:

(1, 51970), (2, 52024), (3, 52042), (5, 52093), (8, 52150), (Start: 9 @52162 has 27 MA's), (16, 52285), (17, 52324), (22, 52381), (29, 52450), (30, 52456), (32, 52522), (34, 52543),

Gene: Mutzi\_75 Start: 52444, Stop: 52839, Start Num: 9

Candidate Starts for Mutzi\_75:

(Start: 9 @52444 has 27 MA's), (10, 52447), (24, 52645), (29, 52708), (30, 52714), (32, 52780), (34, 52801),

Gene: Nubi\_76 Start: 51245, Stop: 51631, Start Num: 9

Candidate Starts for Nubi\_76:

(Start: 9 @51245 has 27 MA's), (Start: 12 @51323 has 1 MA's), (13, 51326), (15, 51347), (29, 51500), (32, 51572), (34, 51593),

Gene: Phlop\_75 Start: 51747, Stop: 52184, Start Num: 9

Candidate Starts for Phlop\_75:

(Start: 9 @51747 has 27 MA's), (13, 51828), (19, 51942), (27, 52026), (30, 52059), (32, 52125), (34, 52146),

Gene: PinkCoffee\_79 Start: 51715, Stop: 52125, Start Num: 9

Candidate Starts for PinkCoffee\_79:

(Start: 9 @51715 has 27 MA's), (19, 51883), (29, 51994), (30, 52000), (32, 52066), (34, 52087),

Gene: Portcullis\_78 Start: 51963, Stop: 52283, Start Num: 9

Candidate Starts for Portcullis\_78:

(Start: 9 @51963 has 27 MA's), (11, 52035), (29, 52134), (30, 52140), (32, 52206), (34, 52227),

Gene: PullumCavea\_76 Start: 51924, Stop: 52361, Start Num: 9

Candidate Starts for PullumCavea\_76:

(Start: 9 @51924 has 27 MA's), (13, 52005), (19, 52119), (27, 52203), (30, 52236), (32, 52302), (34, 52323),

Gene: RogerDodger\_81 Start: 52512, Stop: 52949, Start Num: 9

Candidate Starts for RogerDodger\_81:

(Start: 9 @52512 has 27 MA's), (19, 52707), (29, 52818), (32, 52890), (34, 52911),

Gene: Salvador\_77 Start: 51861, Stop: 52304, Start Num: 9

Candidate Starts for Salvador\_77:

(Start: 9 @51861 has 27 MA's), (17, 52023), (26, 52113), (32, 52245), (34, 52266),

Gene: Savbucketdawg\_73 Start: 51277, Stop: 51696, Start Num: 9

Candidate Starts for Savbucketdawg\_73:

(1, 51085), (2, 51139), (3, 51157), (5, 51208), (8, 51265), (Start: 9 @51277 has 27 MA's), (16, 51400), (17, 51439), (22, 51496), (29, 51565), (30, 51571), (32, 51637), (34, 51658),

Gene: Shinji\_76 Start: 51442, Stop: 51867, Start Num: 9

Candidate Starts for Shinji\_76:

(Start: 9 @51442 has 27 MA's), (17, 51604), (32, 51802), (34, 51823),

Gene: SmokingBunny\_78 Start: 52857, Stop: 53300, Start Num: 9

Candidate Starts for SmokingBunny\_78:

(Start: 9 @52857 has 27 MA's), (17, 53019), (26, 53109), (32, 53241), (34, 53262),

Gene: Togo\_77 Start: 52857, Stop: 53300, Start Num: 9

Candidate Starts for Togo\_77:

(Start: 9 @52857 has 27 MA's), (17, 53019), (26, 53109), (32, 53241), (34, 53262),

Gene: Twister6\_78 Start: 51206, Stop: 51649, Start Num: 9

Candidate Starts for Twister6\_78:

(Start: 9 @51206 has 27 MA's), (17, 51368), (26, 51458), (32, 51590), (34, 51611),

Gene: Valary\_78 Start: 52537, Stop: 52956, Start Num: 9

Candidate Starts for Valary\_78:

(1, 52345), (2, 52399), (3, 52417), (5, 52468), (8, 52525), (Start: 9 @52537 has 27 MA's), (16, 52660), (17, 52699), (22, 52756), (29, 52825), (30, 52831), (32, 52897), (34, 52918),

Gene: VanDeWege\_79 Start: 52167, Stop: 52523, Start Num: 9

Candidate Starts for VanDeWege\_79:

(Start: 9 @52167 has 27 MA's), (21, 52320), (29, 52386), (30, 52392), (32, 52458), (34, 52479),

Gene: Wizard\_74 Start: 51715, Stop: 52134, Start Num: 9

Candidate Starts for Wizard\_74:

(1, 51523), (2, 51577), (3, 51595), (5, 51646), (8, 51703), (Start: 9 @51715 has 27 MA's), (16, 51838), (17, 51877), (22, 51934), (29, 52003), (30, 52009), (32, 52075), (34, 52096),

Gene: YungMoney\_76 Start: 53284, Stop: 53679, Start Num: 9

Candidate Starts for YungMoney\_76:

(Start: 9 @53284 has 27 MA's), (10, 53287), (24, 53485), (29, 53548), (30, 53554), (32, 53620), (34, 53641),