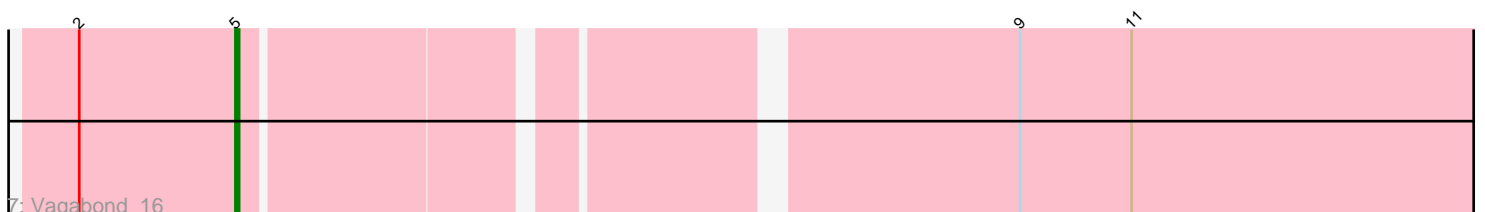
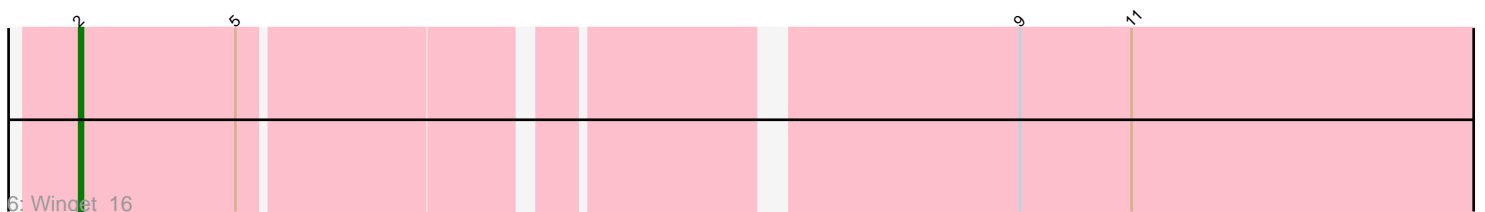
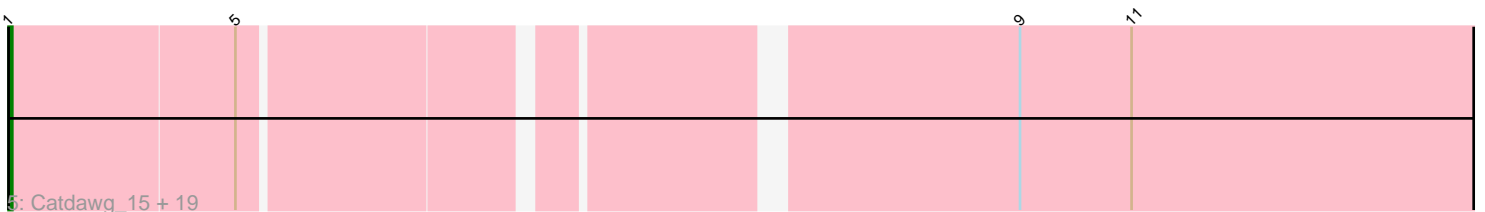
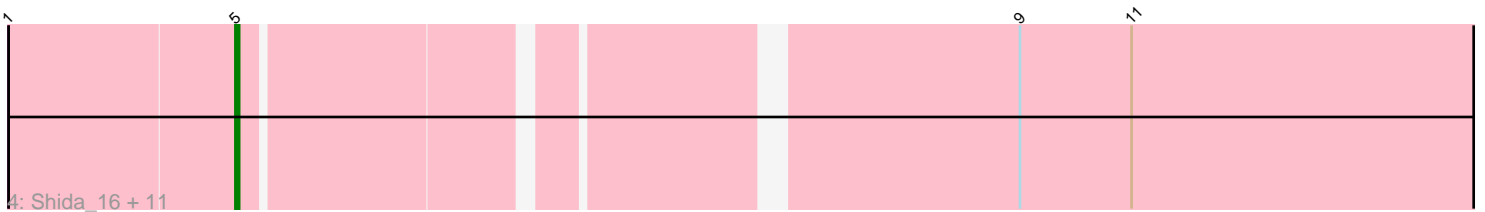
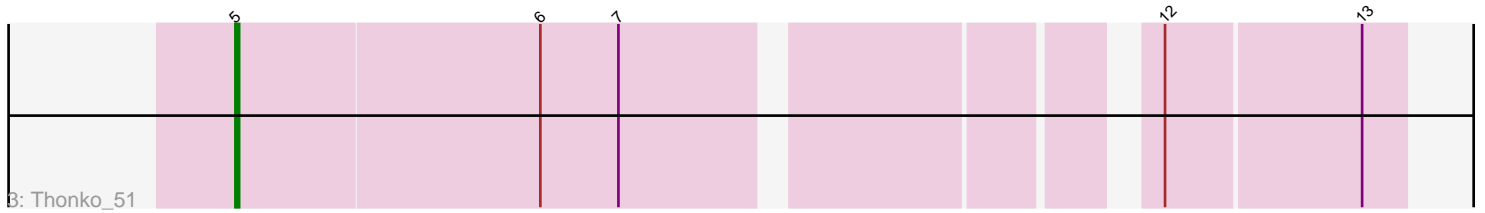
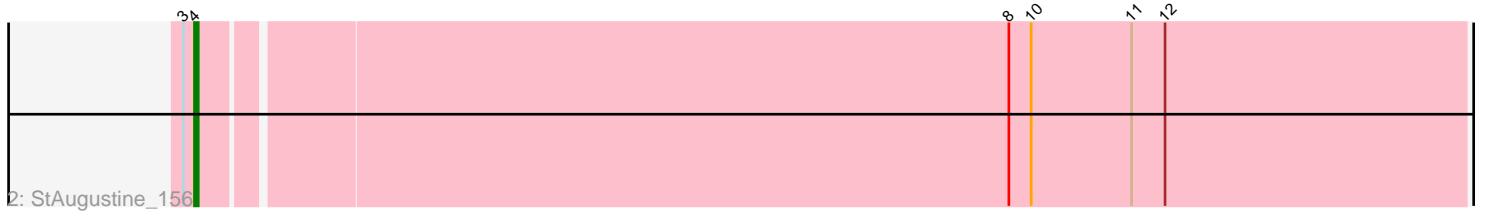
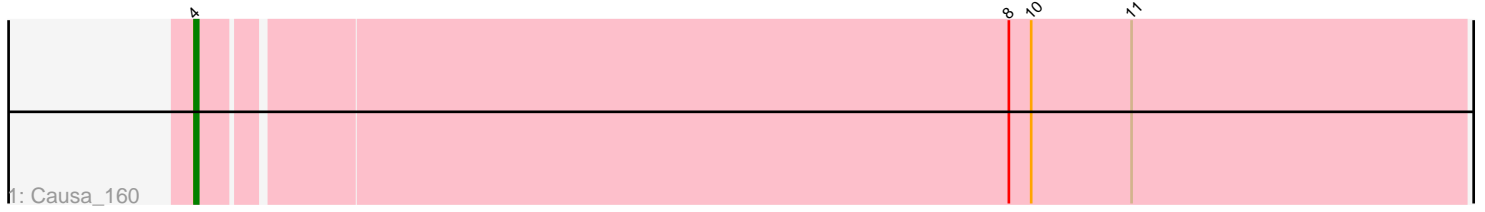


Pham 292975



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 292975 Report

This analysis was run 04/18/26 on database version 643.

Pham number 292975 has 37 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Causa\_160
- Track 2 : StAugustine\_156
- Track 3 : Thonko\_51
- Track 4 : Shida\_16, Bora\_16, KingPhillip3\_15, FoulBall\_15, YoyoKar\_16, Ryadel\_18, Wogge42\_17, Schuy\_17, JangDynasty\_15, Zakhe101\_17, Imara\_16, Zebo\_15
- Track 5 : Catdawg\_15, Firecracker\_16, Corndog\_18, Wildflower\_16, Murai\_16, Blessica\_16, Krili\_16, Dylan\_16, YungJamal\_17, Smooch\_17, Familton\_16, Vorrrps\_16, Mori\_16, Alkhayr\_16, NiebruSaylor\_16, Ashwin\_17, TelAviv\_15, MadKillah\_17, SchoolBus\_15, Idergollasper\_15
- Track 6 : Winget\_16
- Track 7 : Vagabond\_16

### ***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 20 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr\_16, Ashwin\_17, Blessica\_16, Catdawg\_15, Corndog\_18, Dylan\_16, Familton\_16, Firecracker\_16, Idergollasper\_15, Krili\_16, MadKillah\_17, Mori\_16, Murai\_16, NiebruSaylor\_16, SchoolBus\_15, Smooch\_17, TelAviv\_15, Vorrrps\_16, Wildflower\_16, YungJamal\_17,

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

- Bora\_16, FoulBall\_15, Imara\_16, JangDynasty\_15, KingPhillip3\_15, Ryadel\_18, Schuy\_17, Shida\_16, Wogge42\_17, YoyoKar\_16, Zakhe101\_17, Zebo\_15,

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

- Causa\_160, StAugustine\_156, Thonko\_51, Vagabond\_16, Winget\_16,

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

Start 1:

- Found in 32 of 37 ( 86.5% ) of genes in pham
- Manual Annotations of this start: 20 of 33
- Called 62.5% of time when present
- Phage (with cluster) where this start called: Alkhayr\_16 (O), Ashwin\_17 (O), Blessica\_16 (O), Catdawg\_15 (O), Corndog\_18 (O), Dylan\_16 (O), Familton\_16 (O), Firecracker\_16 (O), Idergollasper\_15 (O), Krili\_16 (O), MadKillah\_17 (O), Mori\_16 (O), Murai\_16 (O), NiebruSaylor\_16 (O), SchoolBus\_15 (O), Smooch\_17 (O), TelAviv\_15 (O), Vorrps\_16 (O), Wildflower\_16 (O), YungJamal\_17 (O),

#### Start 2:

- Found in 2 of 37 ( 5.4% ) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Winget\_16 (O),

#### Start 4:

- Found in 2 of 37 ( 5.4% ) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa\_160 (AI), StAugustine\_156 (AI),

#### Start 5:

- Found in 35 of 37 ( 94.6% ) of genes in pham
- Manual Annotations of this start: 10 of 33
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Bora\_16 (O), FoulBall\_15 (O), Imara\_16 (O), JangDynasty\_15 (O), KingPhillip3\_15 (O), Ryadel\_18 (O), Schuy\_17 (O), Shida\_16 (O), Thonko\_51 (B8), Vagabond\_16 (O), Wogge42\_17 (O), YoyoKar\_16 (O), Zakhe101\_17 (O), Zebo\_15 (O),

### Summary by clusters:

There are 3 clusters represented in this pham: AI, B8, O,

Info for manual annotations of cluster AI:

- Start number 4 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster B8:

- Start number 5 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster O:

- Start number 1 was manually annotated 20 times for cluster O.
- Start number 2 was manually annotated 1 time for cluster O.
- Start number 5 was manually annotated 9 times for cluster O.

### Gene Information:

Gene: Alkhayr\_16 Start: 6766, Stop: 7140, Start Num: 1

Candidate Starts for Alkhayr\_16:

(Start: 1 @6766 has 20 MA's), (Start: 5 @6826 has 10 MA's), (9, 7015), (11, 7045),

Gene: Ashwin\_17 Start: 6986, Stop: 7360, Start Num: 1  
Candidate Starts for Ashwin\_17:  
(Start: 1 @6986 has 20 MA's), (Start: 5 @7046 has 10 MA's), (9, 7235), (11, 7265),

Gene: Blessica\_16 Start: 6789, Stop: 7163, Start Num: 1  
Candidate Starts for Blessica\_16:  
(Start: 1 @6789 has 20 MA's), (Start: 5 @6849 has 10 MA's), (9, 7038), (11, 7068),

Gene: Bora\_16 Start: 6856, Stop: 7170, Start Num: 5  
Candidate Starts for Bora\_16:  
(Start: 1 @6796 has 20 MA's), (Start: 5 @6856 has 10 MA's), (9, 7045), (11, 7075),

Gene: Catdawg\_15 Start: 6395, Stop: 6769, Start Num: 1  
Candidate Starts for Catdawg\_15:  
(Start: 1 @6395 has 20 MA's), (Start: 5 @6455 has 10 MA's), (9, 6644), (11, 6674),

Gene: Causa\_160 Start: 89550, Stop: 89215, Start Num: 4  
Candidate Starts for Causa\_160:  
(Start: 4 @89550 has 2 MA's), (8, 89337), (10, 89331), (11, 89304),

Gene: Corndog\_18 Start: 7098, Stop: 7472, Start Num: 1  
Candidate Starts for Corndog\_18:  
(Start: 1 @7098 has 20 MA's), (Start: 5 @7158 has 10 MA's), (9, 7347), (11, 7377),

Gene: Dylan\_16 Start: 6986, Stop: 7360, Start Num: 1  
Candidate Starts for Dylan\_16:  
(Start: 1 @6986 has 20 MA's), (Start: 5 @7046 has 10 MA's), (9, 7235), (11, 7265),

Gene: Familton\_16 Start: 6396, Stop: 6770, Start Num: 1  
Candidate Starts for Familton\_16:  
(Start: 1 @6396 has 20 MA's), (Start: 5 @6456 has 10 MA's), (9, 6645), (11, 6675),

Gene: Firecracker\_16 Start: 6719, Stop: 7093, Start Num: 1  
Candidate Starts for Firecracker\_16:  
(Start: 1 @6719 has 20 MA's), (Start: 5 @6779 has 10 MA's), (9, 6968), (11, 6998),

Gene: FoulBall\_15 Start: 6456, Stop: 6770, Start Num: 5  
Candidate Starts for FoulBall\_15:  
(Start: 1 @6396 has 20 MA's), (Start: 5 @6456 has 10 MA's), (9, 6645), (11, 6675),

Gene: Idergollasper\_15 Start: 6396, Stop: 6770, Start Num: 1  
Candidate Starts for Idergollasper\_15:  
(Start: 1 @6396 has 20 MA's), (Start: 5 @6456 has 10 MA's), (9, 6645), (11, 6675),

Gene: Imara\_16 Start: 6709, Stop: 7023, Start Num: 5  
Candidate Starts for Imara\_16:  
(Start: 1 @6649 has 20 MA's), (Start: 5 @6709 has 10 MA's), (9, 6898), (11, 6928),

Gene: JangDynasty\_15 Start: 6545, Stop: 6859, Start Num: 5  
Candidate Starts for JangDynasty\_15:  
(Start: 1 @6485 has 20 MA's), (Start: 5 @6545 has 10 MA's), (9, 6734), (11, 6764),

Gene: KingPhillip3\_15 Start: 6456, Stop: 6770, Start Num: 5

Candidate Starts for KingPhillip3\_15:

(Start: 1 @6396 has 20 MA's), (Start: 5 @6456 has 10 MA's), (9, 6645), (11, 6675),

Gene: Krili\_16 Start: 6755, Stop: 7129, Start Num: 1

Candidate Starts for Krili\_16:

(Start: 1 @6755 has 20 MA's), (Start: 5 @6815 has 10 MA's), (9, 7004), (11, 7034),

Gene: MadKillah\_17 Start: 6788, Stop: 7162, Start Num: 1

Candidate Starts for MadKillah\_17:

(Start: 1 @6788 has 20 MA's), (Start: 5 @6848 has 10 MA's), (9, 7037), (11, 7067),

Gene: Mori\_16 Start: 6627, Stop: 7001, Start Num: 1

Candidate Starts for Mori\_16:

(Start: 1 @6627 has 20 MA's), (Start: 5 @6687 has 10 MA's), (9, 6876), (11, 6906),

Gene: Murai\_16 Start: 6627, Stop: 7001, Start Num: 1

Candidate Starts for Murai\_16:

(Start: 1 @6627 has 20 MA's), (Start: 5 @6687 has 10 MA's), (9, 6876), (11, 6906),

Gene: NiebruSaylor\_16 Start: 6627, Stop: 7001, Start Num: 1

Candidate Starts for NiebruSaylor\_16:

(Start: 1 @6627 has 20 MA's), (Start: 5 @6687 has 10 MA's), (9, 6876), (11, 6906),

Gene: Ryadel\_18 Start: 7269, Stop: 7583, Start Num: 5

Candidate Starts for Ryadel\_18:

(Start: 1 @7209 has 20 MA's), (Start: 5 @7269 has 10 MA's), (9, 7458), (11, 7488),

Gene: SchoolBus\_15 Start: 6396, Stop: 6770, Start Num: 1

Candidate Starts for SchoolBus\_15:

(Start: 1 @6396 has 20 MA's), (Start: 5 @6456 has 10 MA's), (9, 6645), (11, 6675),

Gene: Schuy\_17 Start: 6848, Stop: 7162, Start Num: 5

Candidate Starts for Schuy\_17:

(Start: 1 @6788 has 20 MA's), (Start: 5 @6848 has 10 MA's), (9, 7037), (11, 7067),

Gene: Shida\_16 Start: 6753, Stop: 7067, Start Num: 5

Candidate Starts for Shida\_16:

(Start: 1 @6693 has 20 MA's), (Start: 5 @6753 has 10 MA's), (9, 6942), (11, 6972),

Gene: Smooch\_17 Start: 6942, Stop: 7316, Start Num: 1

Candidate Starts for Smooch\_17:

(Start: 1 @6942 has 20 MA's), (Start: 5 @7002 has 10 MA's), (9, 7191), (11, 7221),

Gene: StAugustine\_156 Start: 90648, Stop: 90313, Start Num: 4

Candidate Starts for StAugustine\_156:

(3, 90651), (Start: 4 @90648 has 2 MA's), (8, 90435), (10, 90429), (11, 90402), (12, 90393),

Gene: TelAviv\_15 Start: 6393, Stop: 6767, Start Num: 1

Candidate Starts for TelAviv\_15:

(Start: 1 @6393 has 20 MA's), (Start: 5 @6453 has 10 MA's), (9, 6642), (11, 6672),

Gene: Thonko\_51 Start: 44134, Stop: 43847, Start Num: 5

Candidate Starts for Thonko\_51:

(Start: 5 @44134 has 10 MA's), (6, 44053), (7, 44032), (12, 43909), (13, 43858),

Gene: Vagabond\_16 Start: 6730, Stop: 7044, Start Num: 5

Candidate Starts for Vagabond\_16:

(Start: 2 @6688 has 1 MA's), (Start: 5 @6730 has 10 MA's), (9, 6919), (11, 6949),

Gene: Vorrps\_16 Start: 6627, Stop: 7001, Start Num: 1

Candidate Starts for Vorrps\_16:

(Start: 1 @6627 has 20 MA's), (Start: 5 @6687 has 10 MA's), (9, 6876), (11, 6906),

Gene: Wildflower\_16 Start: 6650, Stop: 7024, Start Num: 1

Candidate Starts for Wildflower\_16:

(Start: 1 @6650 has 20 MA's), (Start: 5 @6710 has 10 MA's), (9, 6899), (11, 6929),

Gene: Winget\_16 Start: 6687, Stop: 7043, Start Num: 2

Candidate Starts for Winget\_16:

(Start: 2 @6687 has 1 MA's), (Start: 5 @6729 has 10 MA's), (9, 6918), (11, 6948),

Gene: Wogge42\_17 Start: 6818, Stop: 7132, Start Num: 5

Candidate Starts for Wogge42\_17:

(Start: 1 @6758 has 20 MA's), (Start: 5 @6818 has 10 MA's), (9, 7007), (11, 7037),

Gene: YoyoKar\_16 Start: 6457, Stop: 6771, Start Num: 5

Candidate Starts for YoyoKar\_16:

(Start: 1 @6397 has 20 MA's), (Start: 5 @6457 has 10 MA's), (9, 6646), (11, 6676),

Gene: YungJamal\_17 Start: 6978, Stop: 7352, Start Num: 1

Candidate Starts for YungJamal\_17:

(Start: 1 @6978 has 20 MA's), (Start: 5 @7038 has 10 MA's), (9, 7227), (11, 7257),

Gene: Zakhe101\_17 Start: 7050, Stop: 7364, Start Num: 5

Candidate Starts for Zakhe101\_17:

(Start: 1 @6990 has 20 MA's), (Start: 5 @7050 has 10 MA's), (9, 7239), (11, 7269),

Gene: Zebo\_15 Start: 6456, Stop: 6770, Start Num: 5

Candidate Starts for Zebo\_15:

(Start: 1 @6396 has 20 MA's), (Start: 5 @6456 has 10 MA's), (9, 6645), (11, 6675),