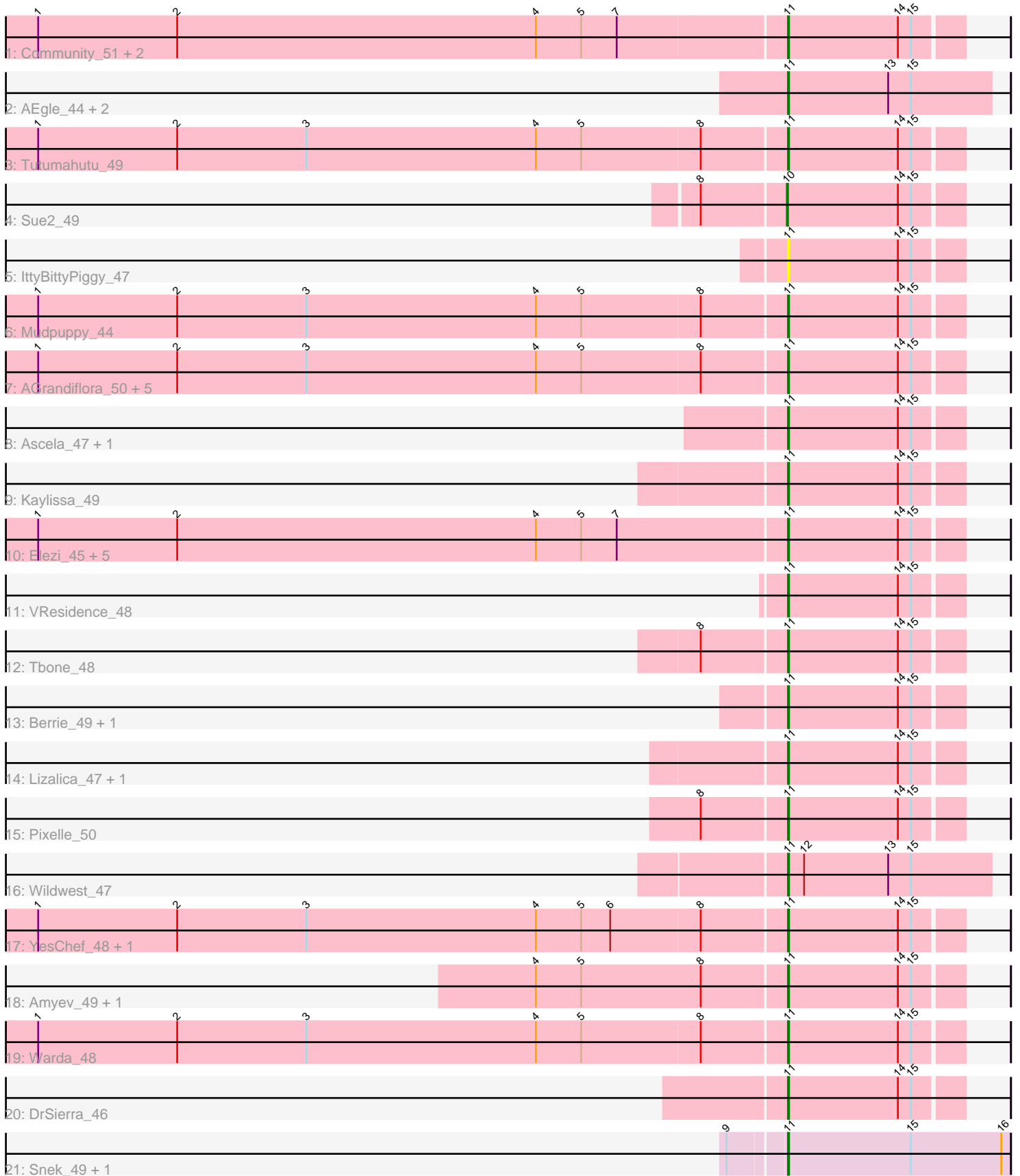


Pham 191387



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 191387 Report

This analysis was run 11/02/24 on database version 579.

Pham number 191387 has 41 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Community\_51, Tuck\_51, Janeemi\_50
- Track 2 : AEgle\_44, Adumb2043\_45, Turab\_45
- Track 3 : Tutumahutu\_49
- Track 4 : Sue2\_49
- Track 5 : IttyBittyPiggy\_47
- Track 6 : Mudpuppy\_44
- Track 7 : AGrandiflora\_50, Lego\_47, Joemato\_48, JohnDoe\_48, Simpson\_50, Cyan\_48
- Track 8 : Ascela\_47, Iter\_47
- Track 9 : Kaylissa\_49
- Track 10 : Elezi\_45, Asa16\_45, Eraser\_45, London\_45, Niobe\_45, Jstan\_47
- Track 11 : VResidence\_48
- Track 12 : Tbone\_48
- Track 13 : Berrie\_49, Phives\_52
- Track 14 : Lizalica\_47, Nitro\_47
- Track 15 : Pixelle\_50
- Track 16 : Wildwest\_47
- Track 17 : YesChef\_48, Powerpuff\_50
- Track 18 : Amyev\_49, Tian\_48
- Track 19 : Warda\_48
- Track 20 : DrSierra\_46
- Track 21 : Snek\_49, Tweety19\_50

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

The start number called the most often in the published annotations is 11, it was called in 32 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle\_44, AGrandiflora\_50, Adumb2043\_45, Amyev\_49, Asa16\_45, Ascela\_47, Berrie\_49, Community\_51, Cyan\_48, DrSierra\_46, Elezi\_45, Eraser\_45, Iter\_47, IttyBittyPiggy\_47, Janeemi\_50, Joemato\_48, JohnDoe\_48, Jstan\_47, Kaylissa\_49, Lego\_47, Lizalica\_47, London\_45, Mudpuppy\_44, Niobe\_45, Nitro\_47, Phives\_52, Pixelle\_50, Powerpuff\_50, Simpson\_50, Snek\_49, Tbone\_48, Tian\_48, Tuck\_51,

Turab\_45, Tutumahutu\_49, Tweety19\_50, VResidence\_48, Warda\_48, Wildwest\_47, YesChef\_48,

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

- 

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

- Sue2\_49,

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

Start 10:

- Found in 1 of 41 ( 2.4% ) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sue2\_49 (AZ1),

Start 11:

- Found in 40 of 41 ( 97.6% ) of genes in pham
- Manual Annotations of this start: 32 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle\_44 (AZ1), AGrandiflora\_50 (AZ1), Adumb2043\_45 (AZ1), Amyev\_49 (AZ1), Asa16\_45 (AZ1), Ascela\_47 (AZ1), Berrie\_49 (AZ1), Community\_51 (AZ1), Cyan\_48 (AZ1), DrSierra\_46 (AZ1), Elezi\_45 (AZ1), Eraser\_45 (AZ1), Iter\_47 (AZ1), IttyBittyPiggy\_47 (AZ1), Janeemi\_50 (AZ1), Joemato\_48 (AZ1), JohnDoe\_48 (AZ1), Jstan\_47 (AZ1), Kaylissa\_49 (AZ1), Lego\_47 (AZ1), Lizalica\_47 (AZ1), London\_45 (AZ1), Mudpuppy\_44 (AZ1), Niobe\_45 (AZ1), Nitro\_47 (AZ1), Phives\_52 (AZ1), Pixelle\_50 (AZ1), Powerpuff\_50 (AZ1), Simpson\_50 (AZ1), Snek\_49 (AZ3), Tbone\_48 (AZ1), Tian\_48 (AZ1), Tuck\_51 (AZ1), Turab\_45 (AZ1), Tutumahutu\_49 (AZ1), Tweety19\_50 (AZ3), VResidence\_48 (AZ1), Warda\_48 (AZ1), Wildwest\_47 (AZ1), YesChef\_48 (AZ1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: AZ1, AZ3,

Info for manual annotations of cluster AZ1:

- Start number 10 was manually annotated 1 time for cluster AZ1.
- Start number 11 was manually annotated 30 times for cluster AZ1.

Info for manual annotations of cluster AZ3:

- Start number 11 was manually annotated 2 times for cluster AZ3.

### **Gene Information:**

Gene: AEgle\_44 Start: 33643, Stop: 33831, Start Num: 11

Candidate Starts for AEgle\_44:

(Start: 11 @33643 has 32 MA's), (13, 33736), (15, 33757),

Gene: AGrandiflora\_50 Start: 34967, Stop: 35125, Start Num: 11

Candidate Starts for AGrandiflora\_50:

(1, 34280), (2, 34409), (3, 34529), (4, 34742), (5, 34784), (8, 34892), (Start: 11 @34967 has 32 MA's), (14, 35069), (15, 35081),

Gene: Adumb2043\_45 Start: 33662, Stop: 33850, Start Num: 11

Candidate Starts for Adumb2043\_45:

(Start: 11 @33662 has 32 MA's), (13, 33755), (15, 33776),

Gene: Amyev\_49 Start: 37036, Stop: 37194, Start Num: 11

Candidate Starts for Amyev\_49:

(4, 36811), (5, 36853), (8, 36961), (Start: 11 @37036 has 32 MA's), (14, 37138), (15, 37150),

Gene: Asa16\_45 Start: 35036, Stop: 35194, Start Num: 11

Candidate Starts for Asa16\_45:

(1, 34346), (2, 34475), (4, 34808), (5, 34850), (7, 34883), (Start: 11 @35036 has 32 MA's), (14, 35138), (15, 35150),

Gene: Ascela\_47 Start: 34281, Stop: 34439, Start Num: 11

Candidate Starts for Ascela\_47:

(Start: 11 @34281 has 32 MA's), (14, 34383), (15, 34395),

Gene: Berrie\_49 Start: 35382, Stop: 35540, Start Num: 11

Candidate Starts for Berrie\_49:

(Start: 11 @35382 has 32 MA's), (14, 35484), (15, 35496),

Gene: Community\_51 Start: 36750, Stop: 36908, Start Num: 11

Candidate Starts for Community\_51:

(1, 36063), (2, 36192), (4, 36525), (5, 36567), (7, 36600), (Start: 11 @36750 has 32 MA's), (14, 36852), (15, 36864),

Gene: Cyan\_48 Start: 34566, Stop: 34724, Start Num: 11

Candidate Starts for Cyan\_48:

(1, 33879), (2, 34008), (3, 34128), (4, 34341), (5, 34383), (8, 34491), (Start: 11 @34566 has 32 MA's), (14, 34668), (15, 34680),

Gene: DrSierra\_46 Start: 33437, Stop: 33595, Start Num: 11

Candidate Starts for DrSierra\_46:

(Start: 11 @33437 has 32 MA's), (14, 33539), (15, 33551),

Gene: Elezi\_45 Start: 35032, Stop: 35190, Start Num: 11

Candidate Starts for Elezi\_45:

(1, 34342), (2, 34471), (4, 34804), (5, 34846), (7, 34879), (Start: 11 @35032 has 32 MA's), (14, 35134), (15, 35146),

Gene: Eraser\_45 Start: 35042, Stop: 35200, Start Num: 11

Candidate Starts for Eraser\_45:

(1, 34352), (2, 34481), (4, 34814), (5, 34856), (7, 34889), (Start: 11 @35042 has 32 MA's), (14, 35144), (15, 35156),

Gene: Iter\_47 Start: 34275, Stop: 34433, Start Num: 11

Candidate Starts for Iter\_47:

(Start: 11 @34275 has 32 MA's), (14, 34377), (15, 34389),

Gene: IttyBittyPiggy\_47 Start: 34002, Stop: 34160, Start Num: 11

Candidate Starts for IttyBittyPiggy\_47:  
(Start: 11 @34002 has 32 MA's), (14, 34104), (15, 34116),

Gene: Janeemi\_50 Start: 36281, Stop: 36439, Start Num: 11  
Candidate Starts for Janeemi\_50:  
(1, 35594), (2, 35723), (4, 36056), (5, 36098), (7, 36131), (Start: 11 @36281 has 32 MA's), (14, 36383), (15, 36395),

Gene: Joemato\_48 Start: 34592, Stop: 34750, Start Num: 11  
Candidate Starts for Joemato\_48:  
(1, 33905), (2, 34034), (3, 34154), (4, 34367), (5, 34409), (8, 34517), (Start: 11 @34592 has 32 MA's), (14, 34694), (15, 34706),

Gene: JohnDoe\_48 Start: 34588, Stop: 34746, Start Num: 11  
Candidate Starts for JohnDoe\_48:  
(1, 33901), (2, 34030), (3, 34150), (4, 34363), (5, 34405), (8, 34513), (Start: 11 @34588 has 32 MA's), (14, 34690), (15, 34702),

Gene: Jstan\_47 Start: 35038, Stop: 35196, Start Num: 11  
Candidate Starts for Jstan\_47:  
(1, 34348), (2, 34477), (4, 34810), (5, 34852), (7, 34885), (Start: 11 @35038 has 32 MA's), (14, 35140), (15, 35152),

Gene: Kaylissa\_49 Start: 34983, Stop: 35141, Start Num: 11  
Candidate Starts for Kaylissa\_49:  
(Start: 11 @34983 has 32 MA's), (14, 35085), (15, 35097),

Gene: Lego\_47 Start: 34303, Stop: 34461, Start Num: 11  
Candidate Starts for Lego\_47:  
(1, 33616), (2, 33745), (3, 33865), (4, 34078), (5, 34120), (8, 34228), (Start: 11 @34303 has 32 MA's), (14, 34405), (15, 34417),

Gene: Lizalica\_47 Start: 34047, Stop: 34205, Start Num: 11  
Candidate Starts for Lizalica\_47:  
(Start: 11 @34047 has 32 MA's), (14, 34149), (15, 34161),

Gene: London\_45 Start: 35033, Stop: 35191, Start Num: 11  
Candidate Starts for London\_45:  
(1, 34343), (2, 34472), (4, 34805), (5, 34847), (7, 34880), (Start: 11 @35033 has 32 MA's), (14, 35135), (15, 35147),

Gene: Mudpuppy\_44 Start: 34244, Stop: 34402, Start Num: 11  
Candidate Starts for Mudpuppy\_44:  
(1, 33557), (2, 33686), (3, 33806), (4, 34019), (5, 34061), (8, 34169), (Start: 11 @34244 has 32 MA's), (14, 34346), (15, 34358),

Gene: Niobe\_45 Start: 35036, Stop: 35194, Start Num: 11  
Candidate Starts for Niobe\_45:  
(1, 34346), (2, 34475), (4, 34808), (5, 34850), (7, 34883), (Start: 11 @35036 has 32 MA's), (14, 35138), (15, 35150),

Gene: Nitro\_47 Start: 35343, Stop: 35501, Start Num: 11  
Candidate Starts for Nitro\_47:

(Start: 11 @35343 has 32 MA's), (14, 35445), (15, 35457),

Gene: Phives\_52 Start: 36775, Stop: 36933, Start Num: 11

Candidate Starts for Phives\_52:

(Start: 11 @36775 has 32 MA's), (14, 36877), (15, 36889),

Gene: Pixelle\_50 Start: 37381, Stop: 37539, Start Num: 11

Candidate Starts for Pixelle\_50:

(8, 37306), (Start: 11 @37381 has 32 MA's), (14, 37483), (15, 37495),

Gene: Powerpuff\_50 Start: 35691, Stop: 35849, Start Num: 11

Candidate Starts for Powerpuff\_50:

(1, 35004), (2, 35133), (3, 35253), (4, 35466), (5, 35508), (6, 35535), (8, 35616), (Start: 11 @35691 has 32 MA's), (14, 35793), (15, 35805),

Gene: Simpson\_50 Start: 34596, Stop: 34754, Start Num: 11

Candidate Starts for Simpson\_50:

(1, 33909), (2, 34038), (3, 34158), (4, 34371), (5, 34413), (8, 34521), (Start: 11 @34596 has 32 MA's), (14, 34698), (15, 34710),

Gene: Snek\_49 Start: 34211, Stop: 34417, Start Num: 11

Candidate Starts for Snek\_49:

(9, 34163), (Start: 11 @34211 has 32 MA's), (15, 34325), (16, 34409),

Gene: Sue2\_49 Start: 35287, Stop: 35445, Start Num: 10

Candidate Starts for Sue2\_49:

(8, 35212), (Start: 10 @35287 has 1 MA's), (14, 35389), (15, 35401),

Gene: Tbone\_48 Start: 35151, Stop: 35309, Start Num: 11

Candidate Starts for Tbone\_48:

(8, 35076), (Start: 11 @35151 has 32 MA's), (14, 35253), (15, 35265),

Gene: Tian\_48 Start: 37036, Stop: 37194, Start Num: 11

Candidate Starts for Tian\_48:

(4, 36811), (5, 36853), (8, 36961), (Start: 11 @37036 has 32 MA's), (14, 37138), (15, 37150),

Gene: Tuck\_51 Start: 36658, Stop: 36816, Start Num: 11

Candidate Starts for Tuck\_51:

(1, 35971), (2, 36100), (4, 36433), (5, 36475), (7, 36508), (Start: 11 @36658 has 32 MA's), (14, 36760), (15, 36772),

Gene: Turab\_45 Start: 33682, Stop: 33870, Start Num: 11

Candidate Starts for Turab\_45:

(Start: 11 @33682 has 32 MA's), (13, 33775), (15, 33796),

Gene: Tutumahutu\_49 Start: 34574, Stop: 34732, Start Num: 11

Candidate Starts for Tutumahutu\_49:

(1, 33887), (2, 34016), (3, 34136), (4, 34349), (5, 34391), (8, 34499), (Start: 11 @34574 has 32 MA's), (14, 34676), (15, 34688),

Gene: Tweety19\_50 Start: 34211, Stop: 34417, Start Num: 11

Candidate Starts for Tweety19\_50:

(9, 34163), (Start: 11 @34211 has 32 MA's), (15, 34325), (16, 34409),

Gene: VResidence\_48 Start: 33937, Stop: 34095, Start Num: 11

Candidate Starts for VResidence\_48:

(Start: 11 @33937 has 32 MA's), (14, 34039), (15, 34051),

Gene: Warda\_48 Start: 34638, Stop: 34796, Start Num: 11

Candidate Starts for Warda\_48:

(1, 33951), (2, 34080), (3, 34200), (4, 34413), (5, 34455), (8, 34563), (Start: 11 @34638 has 32 MA's),  
(14, 34740), (15, 34752),

Gene: Wildwest\_47 Start: 34578, Stop: 34766, Start Num: 11

Candidate Starts for Wildwest\_47:

(Start: 11 @34578 has 32 MA's), (12, 34593), (13, 34671), (15, 34692),

Gene: YesChef\_48 Start: 34550, Stop: 34708, Start Num: 11

Candidate Starts for YesChef\_48:

(1, 33863), (2, 33992), (3, 34112), (4, 34325), (5, 34367), (6, 34394), (8, 34475), (Start: 11 @34550  
has 32 MA's), (14, 34652), (15, 34664),