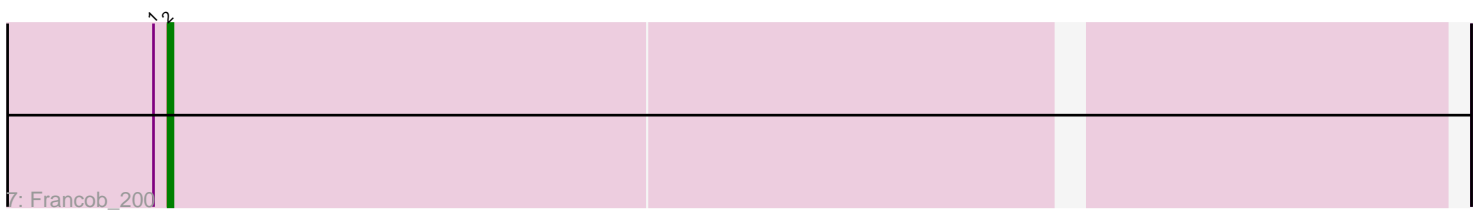
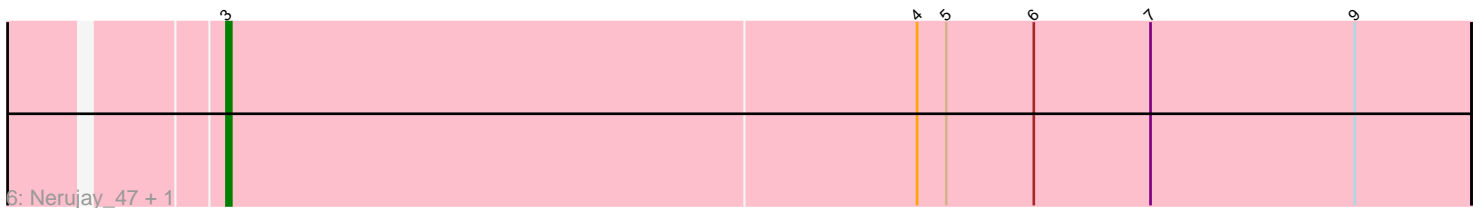
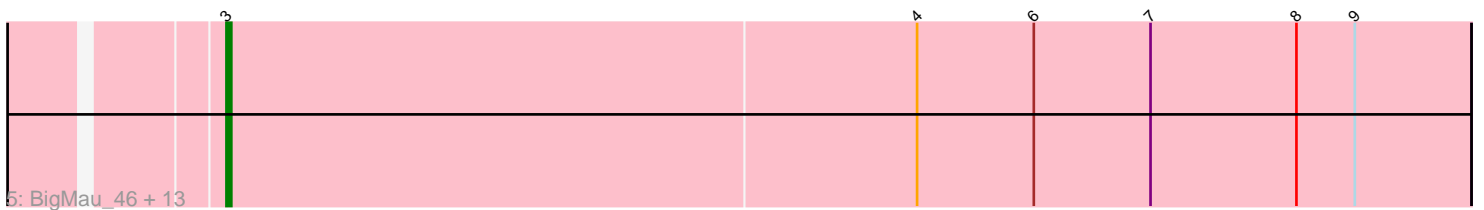
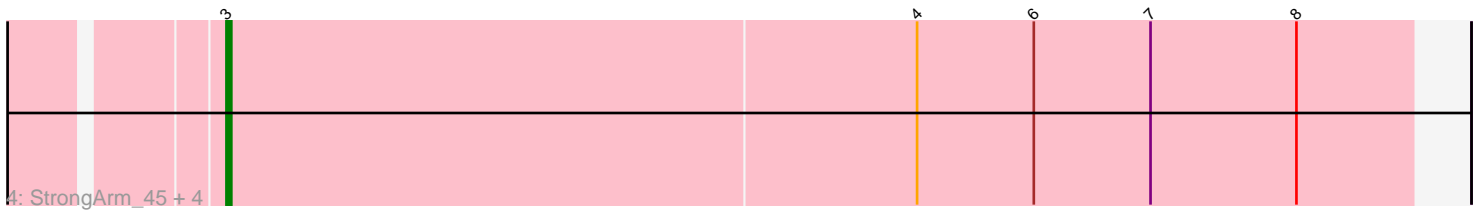
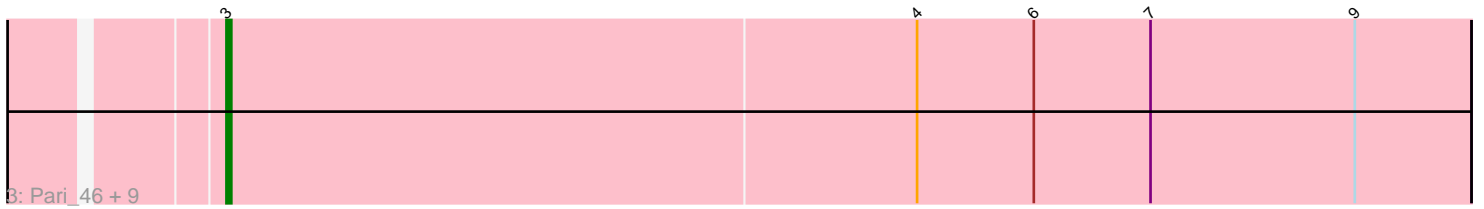
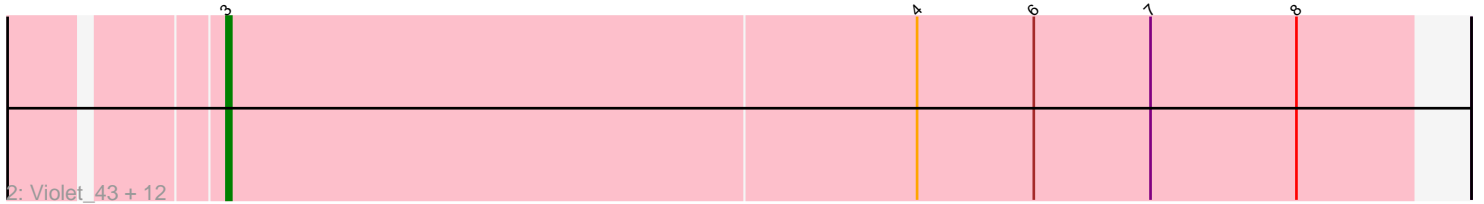
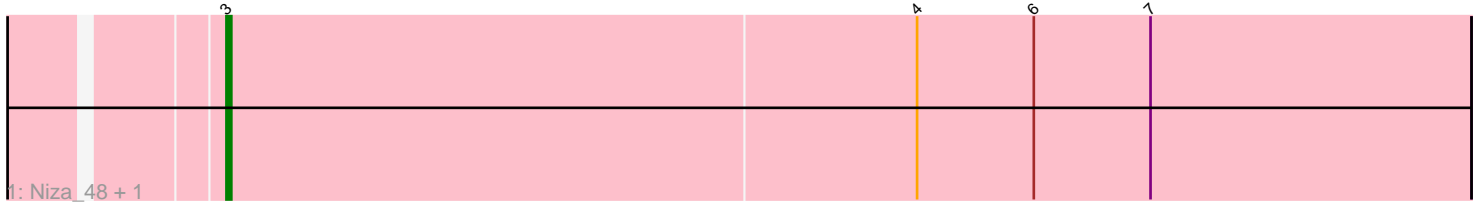


Pham 306565



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 306565 Report

This analysis was run 06/27/26 on database version 652.

Pham number 306565 has 47 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Niza\_48, KSSJEB\_44
- Track 2 : Violet\_43, Makemake\_45, Dussy\_47, Killigrew\_45, Abbyshoes\_48, Blessier\_44, Papez\_48, Briton15\_47, IgnatiusPatJac\_45, Gwendoluna\_48, Lopton\_46, BluSpix\_43, Kenmech\_49
- Track 3 : Pari\_46, Rufus\_46, Switzer\_46, U2\_44, Dynamix\_46, Hope4ever\_47, Seabiscuit\_47, Espresso\_45, Bethlehem\_45, Manatee\_46
- Track 4 : StrongArm\_45, KBG\_47, Bexan\_44, Beatrix\_45, EnzoK\_44
- Track 5 : BigMau\_46, BPBiabs31\_46, Ohno789\_46, McSinger\_46, Burton\_45, Rohr\_46, Squee\_45, BeesKnees\_46, Bob3\_43, Jerm2\_46, Museum\_46, HermioneGrange\_45, Sunshine924\_46, MPlant7149\_44
- Track 6 : Nerujay\_47, Trouble\_47
- Track 7 : Francob\_200

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

The start number called the most often in the published annotations is 3, it was called in 45 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abbyshoes\_48, BPBiabs31\_46, Beatrix\_45, BeesKnees\_46, Bethlehem\_45, Bexan\_44, BigMau\_46, Blessier\_44, BluSpix\_43, Bob3\_43, Briton15\_47, Burton\_45, Dussy\_47, Dynamix\_46, EnzoK\_44, Espresso\_45, Gwendoluna\_48, HermioneGrange\_45, Hope4ever\_47, IgnatiusPatJac\_45, Jerm2\_46, KBG\_47, KSSJEB\_44, Kenmech\_49, Killigrew\_45, Lopton\_46, MPlant7149\_44, Makemake\_45, Manatee\_46, McSinger\_46, Museum\_46, Nerujay\_47, Niza\_48, Ohno789\_46, Papez\_48, Pari\_46, Rohr\_46, Rufus\_46, Seabiscuit\_47, Squee\_45, StrongArm\_45, Sunshine924\_46, Switzer\_46, Trouble\_47, U2\_44, Violet\_43,

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

- 

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

- Francob\_200,

## Summary by start number:

### Start 2:

- Found in 1 of 47 ( 2.1% ) of genes in pham
- Manual Annotations of this start: 1 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Francob\_200 (BK1),

### Start 3:

- Found in 46 of 47 ( 97.9% ) of genes in pham
- Manual Annotations of this start: 45 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abbyshoes\_48 (A1), BPBiebs31\_46 (A1), Beatrix\_45 (A1), BeesKnees\_46 (A1), Bethlehem\_45 (A1), Bexan\_44 (A1), BigMau\_46 (A1), Blesser\_44 (A1), BluSpix\_43 (A1), Bob3\_43 (A1), Briton15\_47 (A1), Burton\_45 (A1), Dussy\_47 (A1), Dynamix\_46 (A1), EnzoK\_44 (A1), Espresso\_45 (A1), Gwendoluna\_48 (A1), HermioneGrange\_45 (A1), Hope4ever\_47 (A1), IgnatiusPatJac\_45 (A1), Jerm2\_46 (A1), KBG\_47 (A1), KSSJEB\_44 (A1), Kenmech\_49 (A1), Killigrew\_45 (A1), Lopton\_46 (A1), MPlant7149\_44 (A1), Makemake\_45 (A1), Manatee\_46 (A1), McSinger\_46 (A1), Museum\_46 (A1), Nerujay\_47 (A1), Niza\_48 (A1), Ohno789\_46 (A1), Papez\_48 (A1), Pari\_46 (A1), Rohr\_46 (A1), Rufus\_46 (A1), Seabiscuit\_47 (A1), Squee\_45 (A1), StrongArm\_45 (A1), Sunshine924\_46 (A1), Switzer\_46 (A1), Trouble\_47 (A1), U2\_44 (A1), Violet\_43 (A1),

## Summary by clusters:

There are 2 clusters represented in this pham: A1, BK1,

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 45 times for cluster A1.

Info for manual annotations of cluster BK1:

- Start number 2 was manually annotated 1 time for cluster BK1.

## Gene Information:

Gene: Abbyshoes\_48 Start: 35031, Stop: 34789, Start Num: 3

Candidate Starts for Abbyshoes\_48:

(Start: 3 @35031 has 45 MA's), (4, 34890), (6, 34866), (7, 34842), (8, 34812),

Gene: BPBiebs31\_46 Start: 34950, Stop: 34696, Start Num: 3

Candidate Starts for BPBiebs31\_46:

(Start: 3 @34950 has 45 MA's), (4, 34809), (6, 34785), (7, 34761), (8, 34731), (9, 34719),

Gene: Beatrix\_45 Start: 36206, Stop: 35964, Start Num: 3

Candidate Starts for Beatrix\_45:

(Start: 3 @36206 has 45 MA's), (4, 36065), (6, 36041), (7, 36017), (8, 35987),

Gene: BeesKnees\_46 Start: 34684, Stop: 34430, Start Num: 3

Candidate Starts for BeesKnees\_46:

(Start: 3 @34684 has 45 MA's), (4, 34543), (6, 34519), (7, 34495), (8, 34465), (9, 34453),

Gene: Bethlehem\_45 Start: 35357, Stop: 35103, Start Num: 3

Candidate Starts for Bethlehem\_45:

(Start: 3 @35357 has 45 MA's), (4, 35216), (6, 35192), (7, 35168), (9, 35126),

Gene: Bexan\_44 Start: 35884, Stop: 35642, Start Num: 3

Candidate Starts for Bexan\_44:

(Start: 3 @35884 has 45 MA's), (4, 35743), (6, 35719), (7, 35695), (8, 35665),

Gene: BigMau\_46 Start: 34465, Stop: 34211, Start Num: 3

Candidate Starts for BigMau\_46:

(Start: 3 @34465 has 45 MA's), (4, 34324), (6, 34300), (7, 34276), (8, 34246), (9, 34234),

Gene: Blesser\_44 Start: 34827, Stop: 34585, Start Num: 3

Candidate Starts for Blesser\_44:

(Start: 3 @34827 has 45 MA's), (4, 34686), (6, 34662), (7, 34638), (8, 34608),

Gene: BluSpix\_43 Start: 31056, Stop: 30814, Start Num: 3

Candidate Starts for BluSpix\_43:

(Start: 3 @31056 has 45 MA's), (4, 30915), (6, 30891), (7, 30867), (8, 30837),

Gene: Bob3\_43 Start: 33815, Stop: 33561, Start Num: 3

Candidate Starts for Bob3\_43:

(Start: 3 @33815 has 45 MA's), (4, 33674), (6, 33650), (7, 33626), (8, 33596), (9, 33584),

Gene: Briton15\_47 Start: 34925, Stop: 34683, Start Num: 3

Candidate Starts for Briton15\_47:

(Start: 3 @34925 has 45 MA's), (4, 34784), (6, 34760), (7, 34736), (8, 34706),

Gene: Burton\_45 Start: 34360, Stop: 34106, Start Num: 3

Candidate Starts for Burton\_45:

(Start: 3 @34360 has 45 MA's), (4, 34219), (6, 34195), (7, 34171), (8, 34141), (9, 34129),

Gene: Dussy\_47 Start: 35051, Stop: 34809, Start Num: 3

Candidate Starts for Dussy\_47:

(Start: 3 @35051 has 45 MA's), (4, 34910), (6, 34886), (7, 34862), (8, 34832),

Gene: Dynamix\_46 Start: 34670, Stop: 34416, Start Num: 3

Candidate Starts for Dynamix\_46:

(Start: 3 @34670 has 45 MA's), (4, 34529), (6, 34505), (7, 34481), (9, 34439),

Gene: EnzoK\_44 Start: 32641, Stop: 32399, Start Num: 3

Candidate Starts for EnzoK\_44:

(Start: 3 @32641 has 45 MA's), (4, 32500), (6, 32476), (7, 32452), (8, 32422),

Gene: Espresso\_45 Start: 34917, Stop: 34663, Start Num: 3

Candidate Starts for Espresso\_45:

(Start: 3 @34917 has 45 MA's), (4, 34776), (6, 34752), (7, 34728), (9, 34686),

Gene: Francob\_200 Start: 100603, Stop: 100857, Start Num: 2

Candidate Starts for Francob\_200:

(1, 100600), (Start: 2 @100603 has 1 MA's),

Gene: Gwendoluna\_48 Start: 36809, Stop: 36567, Start Num: 3  
Candidate Starts for Gwendoluna\_48:  
(Start: 3 @36809 has 45 MA's), (4, 36668), (6, 36644), (7, 36620), (8, 36590),

Gene: HermioneGrange\_45 Start: 34959, Stop: 34705, Start Num: 3  
Candidate Starts for HermioneGrange\_45:  
(Start: 3 @34959 has 45 MA's), (4, 34818), (6, 34794), (7, 34770), (8, 34740), (9, 34728),

Gene: Hope4ever\_47 Start: 35416, Stop: 35162, Start Num: 3  
Candidate Starts for Hope4ever\_47:  
(Start: 3 @35416 has 45 MA's), (4, 35275), (6, 35251), (7, 35227), (9, 35185),

Gene: IgnatiusPatJac\_45 Start: 35001, Stop: 34759, Start Num: 3  
Candidate Starts for IgnatiusPatJac\_45:  
(Start: 3 @35001 has 45 MA's), (4, 34860), (6, 34836), (7, 34812), (8, 34782),

Gene: Jerm2\_46 Start: 35214, Stop: 34960, Start Num: 3  
Candidate Starts for Jerm2\_46:  
(Start: 3 @35214 has 45 MA's), (4, 35073), (6, 35049), (7, 35025), (8, 34995), (9, 34983),

Gene: KBG\_47 Start: 36160, Stop: 35918, Start Num: 3  
Candidate Starts for KBG\_47:  
(Start: 3 @36160 has 45 MA's), (4, 36019), (6, 35995), (7, 35971), (8, 35941),

Gene: KSSJEB\_44 Start: 34444, Stop: 34190, Start Num: 3  
Candidate Starts for KSSJEB\_44:  
(Start: 3 @34444 has 45 MA's), (4, 34303), (6, 34279), (7, 34255),

Gene: Kenmech\_49 Start: 36177, Stop: 35935, Start Num: 3  
Candidate Starts for Kenmech\_49:  
(Start: 3 @36177 has 45 MA's), (4, 36036), (6, 36012), (7, 35988), (8, 35958),

Gene: Killigrew\_45 Start: 34863, Stop: 34621, Start Num: 3  
Candidate Starts for Killigrew\_45:  
(Start: 3 @34863 has 45 MA's), (4, 34722), (6, 34698), (7, 34674), (8, 34644),

Gene: Lopton\_46 Start: 36135, Stop: 35893, Start Num: 3  
Candidate Starts for Lopton\_46:  
(Start: 3 @36135 has 45 MA's), (4, 35994), (6, 35970), (7, 35946), (8, 35916),

Gene: MPlant7149\_44 Start: 34077, Stop: 33823, Start Num: 3  
Candidate Starts for MPlant7149\_44:  
(Start: 3 @34077 has 45 MA's), (4, 33936), (6, 33912), (7, 33888), (8, 33858), (9, 33846),

Gene: Makemake\_45 Start: 35605, Stop: 35363, Start Num: 3  
Candidate Starts for Makemake\_45:  
(Start: 3 @35605 has 45 MA's), (4, 35464), (6, 35440), (7, 35416), (8, 35386),

Gene: Manatee\_46 Start: 34313, Stop: 34059, Start Num: 3  
Candidate Starts for Manatee\_46:  
(Start: 3 @34313 has 45 MA's), (4, 34172), (6, 34148), (7, 34124), (9, 34082),

Gene: McSinger\_46 Start: 35069, Stop: 34815, Start Num: 3  
Candidate Starts for McSinger\_46:  
(Start: 3 @35069 has 45 MA's), (4, 34928), (6, 34904), (7, 34880), (8, 34850), (9, 34838),

Gene: Museum\_46 Start: 34299, Stop: 34045, Start Num: 3  
Candidate Starts for Museum\_46:  
(Start: 3 @34299 has 45 MA's), (4, 34158), (6, 34134), (7, 34110), (8, 34080), (9, 34068),

Gene: Nerujay\_47 Start: 35379, Stop: 35125, Start Num: 3  
Candidate Starts for Nerujay\_47:  
(Start: 3 @35379 has 45 MA's), (4, 35238), (5, 35232), (6, 35214), (7, 35190), (9, 35148),

Gene: Niza\_48 Start: 36146, Stop: 35892, Start Num: 3  
Candidate Starts for Niza\_48:  
(Start: 3 @36146 has 45 MA's), (4, 36005), (6, 35981), (7, 35957),

Gene: Ohno789\_46 Start: 35455, Stop: 35201, Start Num: 3  
Candidate Starts for Ohno789\_46:  
(Start: 3 @35455 has 45 MA's), (4, 35314), (6, 35290), (7, 35266), (8, 35236), (9, 35224),

Gene: Papez\_48 Start: 37234, Stop: 36992, Start Num: 3  
Candidate Starts for Papez\_48:  
(Start: 3 @37234 has 45 MA's), (4, 37093), (6, 37069), (7, 37045), (8, 37015),

Gene: Pari\_46 Start: 34382, Stop: 34128, Start Num: 3  
Candidate Starts for Pari\_46:  
(Start: 3 @34382 has 45 MA's), (4, 34241), (6, 34217), (7, 34193), (9, 34151),

Gene: Rohr\_46 Start: 35260, Stop: 35006, Start Num: 3  
Candidate Starts for Rohr\_46:  
(Start: 3 @35260 has 45 MA's), (4, 35119), (6, 35095), (7, 35071), (8, 35041), (9, 35029),

Gene: Rufus\_46 Start: 34884, Stop: 34630, Start Num: 3  
Candidate Starts for Rufus\_46:  
(Start: 3 @34884 has 45 MA's), (4, 34743), (6, 34719), (7, 34695), (9, 34653),

Gene: Seabiscuit\_47 Start: 34650, Stop: 34396, Start Num: 3  
Candidate Starts for Seabiscuit\_47:  
(Start: 3 @34650 has 45 MA's), (4, 34509), (6, 34485), (7, 34461), (9, 34419),

Gene: Squee\_45 Start: 35128, Stop: 34874, Start Num: 3  
Candidate Starts for Squee\_45:  
(Start: 3 @35128 has 45 MA's), (4, 34987), (6, 34963), (7, 34939), (8, 34909), (9, 34897),

Gene: StrongArm\_45 Start: 36012, Stop: 35770, Start Num: 3  
Candidate Starts for StrongArm\_45:  
(Start: 3 @36012 has 45 MA's), (4, 35871), (6, 35847), (7, 35823), (8, 35793),

Gene: Sunshine924\_46 Start: 34429, Stop: 34175, Start Num: 3  
Candidate Starts for Sunshine924\_46:  
(Start: 3 @34429 has 45 MA's), (4, 34288), (6, 34264), (7, 34240), (8, 34210), (9, 34198),

Gene: Switzer\_46 Start: 34719, Stop: 34465, Start Num: 3

Candidate Starts for Switzer\_46:

(Start: 3 @34719 has 45 MA's), (4, 34578), (6, 34554), (7, 34530), (9, 34488),

Gene: Trouble\_47 Start: 36179, Stop: 35925, Start Num: 3

Candidate Starts for Trouble\_47:

(Start: 3 @36179 has 45 MA's), (4, 36038), (5, 36032), (6, 36014), (7, 35990), (9, 35948),

Gene: U2\_44 Start: 34699, Stop: 34445, Start Num: 3

Candidate Starts for U2\_44:

(Start: 3 @34699 has 45 MA's), (4, 34558), (6, 34534), (7, 34510), (9, 34468),

Gene: Violet\_43 Start: 34843, Stop: 34601, Start Num: 3

Candidate Starts for Violet\_43:

(Start: 3 @34843 has 45 MA's), (4, 34702), (6, 34678), (7, 34654), (8, 34624),