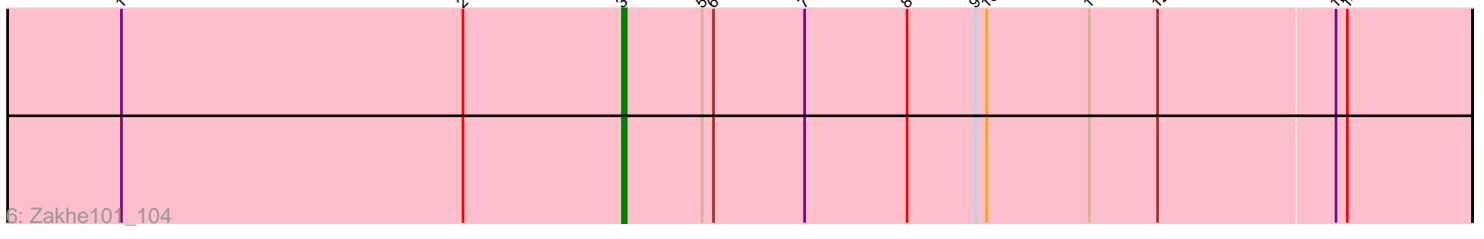
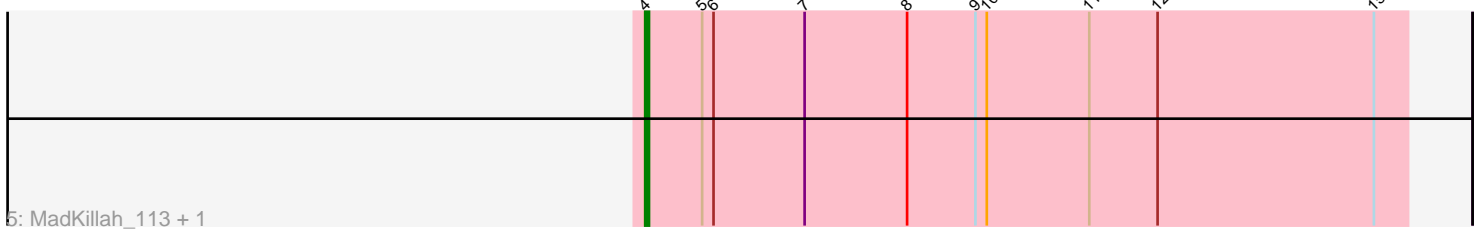
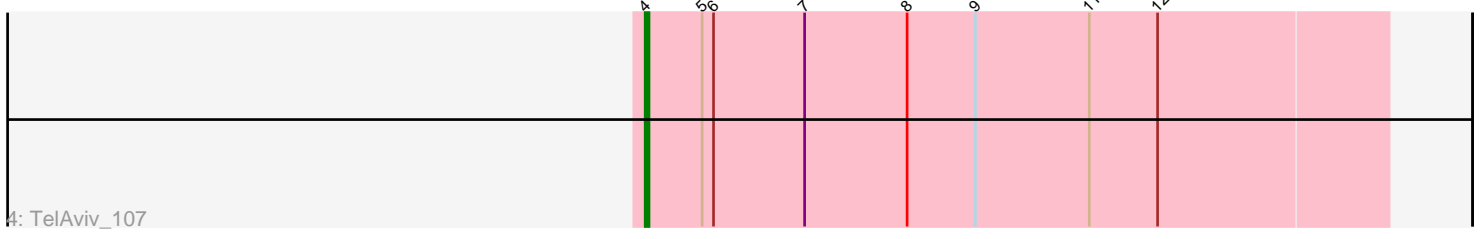
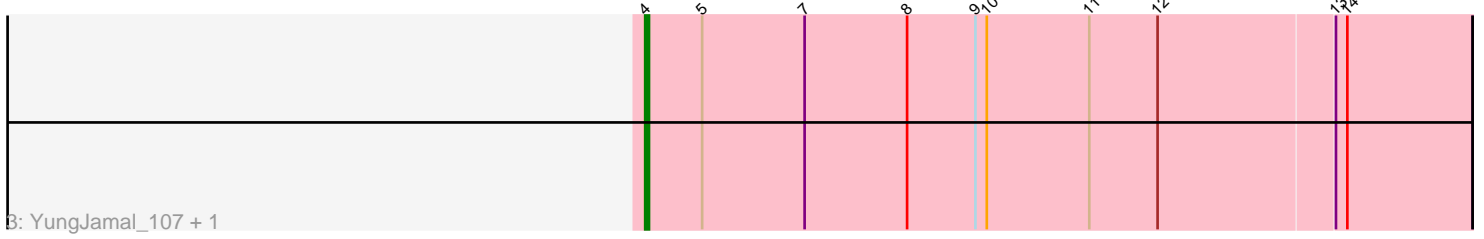
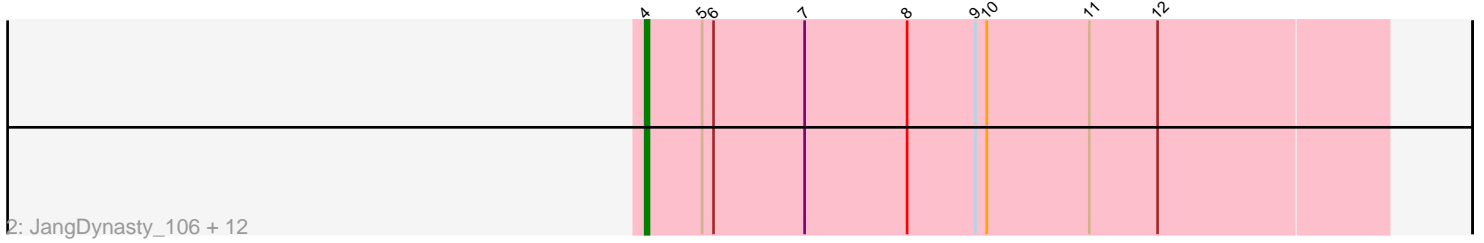
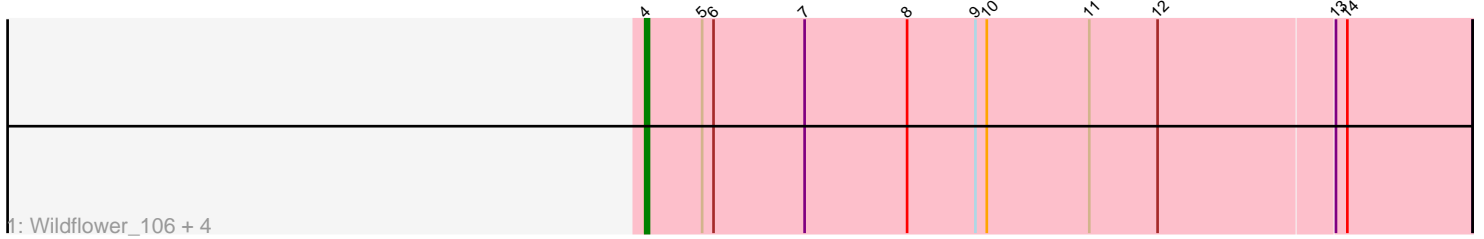


# Pham 4051



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 4051 Report

This analysis was run 07/09/24 on database version 566.

Pham number 4051 has 24 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Wildflower\_106, Firecracker\_109, Ashwin\_106, Smooch\_108, Dylan\_104
- Track 2 : JangDynasty\_106, Idergollasper\_112, Schuy\_110, Catdawg\_111, Alkhayr\_106, Murai\_110, FoulBall\_106, SchoolBus\_109, Winget\_110, Blessica\_108, Krili\_112, Mori\_110, Vorrps\_110
- Track 3 : YungJamal\_107, Corndog\_106
- Track 4 : TelAviv\_107
- Track 5 : MadKillah\_113, NiebruSaylor\_110
- Track 6 : Zakhe101\_104

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

The start number called the most often in the published annotations is 4, it was called in 21 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr\_106, Ashwin\_106, Blessica\_108, Catdawg\_111, Corndog\_106, Dylan\_104, Firecracker\_109, FoulBall\_106, Idergollasper\_112, JangDynasty\_106, Krili\_112, MadKillah\_113, Mori\_110, Murai\_110, NiebruSaylor\_110, SchoolBus\_109, Schuy\_110, Smooch\_108, TelAviv\_107, Vorrps\_110, Wildflower\_106, Winget\_110, YungJamal\_107,

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

- 

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

- Zakhe101\_104,

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

Start 3:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zakhe101\_104 (O),

Start 4:

- Found in 23 of 24 ( 95.8% ) of genes in pham
- Manual Annotations of this start: 21 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr\_106 (O), Ashwin\_106 (O), Blessica\_108 (O), Catdawg\_111 (O), Corndog\_106 (O), Dylan\_104 (O), Firecracker\_109 (O), FoulBall\_106 (O), Idergollasper\_112 (O), JangDynasty\_106 (O), Kriili\_112 (O), MadKillah\_113 (O), Mori\_110 (O), Murai\_110 (O), NiebruSaylor\_110 (O), SchoolBus\_109 (O), Schuy\_110 (O), Smooch\_108 (O), TelAviv\_107 (O), Vorrps\_110 (O), Wildflower\_106 (O), Winget\_110 (O), YungJamal\_107 (O),

**Summary by clusters:**

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

- Start number 3 was manually annotated 1 time for cluster O.
- Start number 4 was manually annotated 21 times for cluster O.

**Gene Information:**

Gene: Alkhayr\_106 Start: 64930, Stop: 64736, Start Num: 4

Candidate Starts for Alkhayr\_106:

(Start: 4 @64930 has 21 MA's), (5, 64915), (6, 64912), (7, 64888), (8, 64861), (9, 64843), (10, 64840), (11, 64813), (12, 64795),

Gene: Ashwin\_106 Start: 63907, Stop: 63692, Start Num: 4

Candidate Starts for Ashwin\_106:

(Start: 4 @63907 has 21 MA's), (5, 63892), (6, 63889), (7, 63865), (8, 63838), (9, 63820), (10, 63817), (11, 63790), (12, 63772), (13, 63727), (14, 63724),

Gene: Blessica\_108 Start: 65158, Stop: 64964, Start Num: 4

Candidate Starts for Blessica\_108:

(Start: 4 @65158 has 21 MA's), (5, 65143), (6, 65140), (7, 65116), (8, 65089), (9, 65071), (10, 65068), (11, 65041), (12, 65023),

Gene: Catdawg\_111 Start: 66250, Stop: 66056, Start Num: 4

Candidate Starts for Catdawg\_111:

(Start: 4 @66250 has 21 MA's), (5, 66235), (6, 66232), (7, 66208), (8, 66181), (9, 66163), (10, 66160), (11, 66133), (12, 66115),

Gene: Corndog\_106 Start: 63818, Stop: 63603, Start Num: 4

Candidate Starts for Corndog\_106:

(Start: 4 @63818 has 21 MA's), (5, 63803), (7, 63776), (8, 63749), (9, 63731), (10, 63728), (11, 63701), (12, 63683), (13, 63638), (14, 63635),

Gene: Dylan\_104 Start: 64053, Stop: 63838, Start Num: 4

Candidate Starts for Dylan\_104:

(Start: 4 @64053 has 21 MA's), (5, 64038), (6, 64035), (7, 64011), (8, 63984), (9, 63966), (10, 63963), (11, 63936), (12, 63918), (13, 63873), (14, 63870),

Gene: Firecracker\_109 Start: 65275, Stop: 65060, Start Num: 4

Candidate Starts for Firecracker\_109:

(Start: 4 @65275 has 21 MA's), (5, 65260), (6, 65257), (7, 65233), (8, 65206), (9, 65188), (10, 65185), (11, 65158), (12, 65140), (13, 65095), (14, 65092),

Gene: FoulBall\_106 Start: 65213, Stop: 65019, Start Num: 4

Candidate Starts for FoulBall\_106:

(Start: 4 @65213 has 21 MA's), (5, 65198), (6, 65195), (7, 65171), (8, 65144), (9, 65126), (10, 65123), (11, 65096), (12, 65078),

Gene: Idergollasper\_112 Start: 66233, Stop: 66039, Start Num: 4

Candidate Starts for Idergollasper\_112:

(Start: 4 @66233 has 21 MA's), (5, 66218), (6, 66215), (7, 66191), (8, 66164), (9, 66146), (10, 66143), (11, 66116), (12, 66098),

Gene: JangDynasty\_106 Start: 64583, Stop: 64389, Start Num: 4

Candidate Starts for JangDynasty\_106:

(Start: 4 @64583 has 21 MA's), (5, 64568), (6, 64565), (7, 64541), (8, 64514), (9, 64496), (10, 64493), (11, 64466), (12, 64448),

Gene: Krili\_112 Start: 65808, Stop: 65614, Start Num: 4

Candidate Starts for Krili\_112:

(Start: 4 @65808 has 21 MA's), (5, 65793), (6, 65790), (7, 65766), (8, 65739), (9, 65721), (10, 65718), (11, 65691), (12, 65673),

Gene: MadKillah\_113 Start: 65286, Stop: 65086, Start Num: 4

Candidate Starts for MadKillah\_113:

(Start: 4 @65286 has 21 MA's), (5, 65271), (6, 65268), (7, 65244), (8, 65217), (9, 65199), (10, 65196), (11, 65169), (12, 65151), (15, 65094),

Gene: Mori\_110 Start: 65833, Stop: 65639, Start Num: 4

Candidate Starts for Mori\_110:

(Start: 4 @65833 has 21 MA's), (5, 65818), (6, 65815), (7, 65791), (8, 65764), (9, 65746), (10, 65743), (11, 65716), (12, 65698),

Gene: Murai\_110 Start: 65651, Stop: 65457, Start Num: 4

Candidate Starts for Murai\_110:

(Start: 4 @65651 has 21 MA's), (5, 65636), (6, 65633), (7, 65609), (8, 65582), (9, 65564), (10, 65561), (11, 65534), (12, 65516),

Gene: NiebruSaylor\_110 Start: 64950, Stop: 64750, Start Num: 4

Candidate Starts for NiebruSaylor\_110:

(Start: 4 @64950 has 21 MA's), (5, 64935), (6, 64932), (7, 64908), (8, 64881), (9, 64863), (10, 64860), (11, 64833), (12, 64815), (15, 64758),

Gene: SchoolBus\_109 Start: 65398, Stop: 65204, Start Num: 4

Candidate Starts for SchoolBus\_109:

(Start: 4 @65398 has 21 MA's), (5, 65383), (6, 65380), (7, 65356), (8, 65329), (9, 65311), (10, 65308), (11, 65281), (12, 65263),

Gene: Schuy\_110 Start: 64998, Stop: 64804, Start Num: 4

Candidate Starts for Schuy\_110:

(Start: 4 @64998 has 21 MA's), (5, 64983), (6, 64980), (7, 64956), (8, 64929), (9, 64911), (10, 64908), (11, 64881), (12, 64863),

Gene: Smooch\_108 Start: 65513, Stop: 65298, Start Num: 4

Candidate Starts for Smooch\_108:

(Start: 4 @65513 has 21 MA's), (5, 65498), (6, 65495), (7, 65471), (8, 65444), (9, 65426), (10, 65423), (11, 65396), (12, 65378), (13, 65333), (14, 65330),

Gene: TelAviv\_107 Start: 65634, Stop: 65440, Start Num: 4

Candidate Starts for TelAviv\_107:

(Start: 4 @65634 has 21 MA's), (5, 65619), (6, 65616), (7, 65592), (8, 65565), (9, 65547), (11, 65517), (12, 65499),

Gene: Vorrps\_110 Start: 65834, Stop: 65640, Start Num: 4

Candidate Starts for Vorrps\_110:

(Start: 4 @65834 has 21 MA's), (5, 65819), (6, 65816), (7, 65792), (8, 65765), (9, 65747), (10, 65744), (11, 65717), (12, 65699),

Gene: Wildflower\_106 Start: 63539, Stop: 63324, Start Num: 4

Candidate Starts for Wildflower\_106:

(Start: 4 @63539 has 21 MA's), (5, 63524), (6, 63521), (7, 63497), (8, 63470), (9, 63452), (10, 63449), (11, 63422), (12, 63404), (13, 63359), (14, 63356),

Gene: Winget\_110 Start: 65683, Stop: 65489, Start Num: 4

Candidate Starts for Winget\_110:

(Start: 4 @65683 has 21 MA's), (5, 65668), (6, 65665), (7, 65641), (8, 65614), (9, 65596), (10, 65593), (11, 65566), (12, 65548),

Gene: YungJamal\_107 Start: 64302, Stop: 64087, Start Num: 4

Candidate Starts for YungJamal\_107:

(Start: 4 @64302 has 21 MA's), (5, 64287), (7, 64260), (8, 64233), (9, 64215), (10, 64212), (11, 64185), (12, 64167), (13, 64122), (14, 64119),

Gene: Zakhe101\_104 Start: 63651, Stop: 63430, Start Num: 3

Candidate Starts for Zakhe101\_104:

(1, 63783), (2, 63693), (Start: 3 @63651 has 1 MA's), (5, 63630), (6, 63627), (7, 63603), (8, 63576), (9, 63558), (10, 63555), (11, 63528), (12, 63510), (13, 63465), (14, 63462),