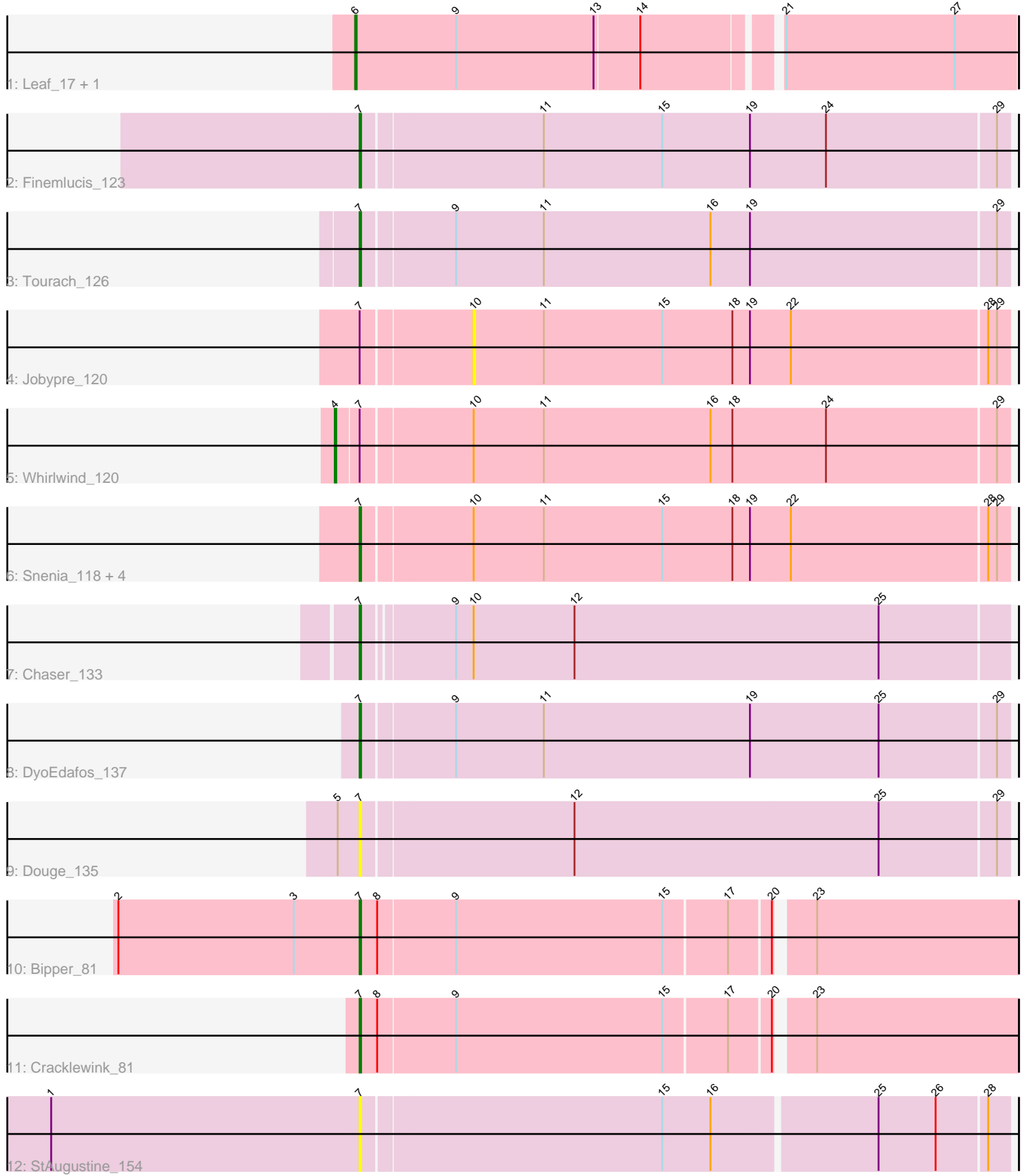


# Pham 4707



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 4707 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4707 has 17 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Leaf\_17, Dewdrop\_17
- Track 2 : Finemlucis\_123
- Track 3 : Tourach\_126
- Track 4 : Jobypre\_120
- Track 5 : Whirlwind\_120
- Track 6 : Snenia\_118, Jubie\_119, Lumos\_119, MsGreen\_120, Clautastrophe\_118
- Track 7 : Chaser\_133
- Track 8 : DyoEdafos\_137
- Track 9 : Douge\_135
- Track 10 : Bipper\_81
- Track 11 : Cracklewink\_81
- Track 12 : StAugustine\_154

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

The start number called the most often in the published annotations is 7, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bipper\_81, Chaser\_133, Clautastrophe\_118, Cracklewink\_81, Douge\_135, DyoEdafos\_137, Finemlucis\_123, Jubie\_119, Lumos\_119, MsGreen\_120, Snenia\_118, StAugustine\_154, Tourach\_126,

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

- Jobypre\_120, Whirlwind\_120,

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

- Dewdrop\_17, Leaf\_17,

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

Start 4:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 1 of 14

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Whirlwind\_120 (L3),

Start 6:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop\_17 (GC), Leaf\_17 (GC),

Start 7:

- Found in 15 of 17 ( 88.2% ) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Bipper\_81 (Y), Chaser\_133 (L4), Clautastrophe\_118 (L3), Cracklewink\_81 (Y), Douge\_135 (L4), DyoEdafos\_137 (L4), Finemlucis\_123 (L2), Jubie\_119 (L3), Lumos\_119 (L3), MsGreen\_120 (L3), Snenia\_118 (L3), StAugustine\_154 (singleton), Tourach\_126 (L2),

Start 10:

- Found in 8 of 17 ( 47.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Jobypre\_120 (L3),

### **Summary by clusters:**

There are 6 clusters represented in this pham: singleton, L4, GC, L3, Y, L2,

Info for manual annotations of cluster GC:

- Start number 6 was manually annotated 2 times for cluster GC.

Info for manual annotations of cluster L2:

- Start number 7 was manually annotated 2 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 4 was manually annotated 1 time for cluster L3.
- Start number 7 was manually annotated 5 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 7 was manually annotated 2 times for cluster L4.

Info for manual annotations of cluster Y:

- Start number 7 was manually annotated 2 times for cluster Y.

### **Gene Information:**

Gene: Bipper\_81 Start: 53391, Stop: 53822, Start Num: 7

Candidate Starts for Bipper\_81:

(2, 53226), (3, 53346), (Start: 7 @53391 has 11 MA's), (8, 53403), (9, 53454), (15, 53595), (17, 53637), (20, 53664), (23, 53685),

Gene: Chaser\_133 Start: 68461, Stop: 68030, Start Num: 7

Candidate Starts for Chaser\_133:

(Start: 7 @68461 has 11 MA's), (9, 68404), (10, 68392), (12, 68323), (25, 68116),

Gene: Clautastrophe\_118 Start: 66438, Stop: 66004, Start Num: 7

Candidate Starts for Clautastrophe\_118:

(Start: 7 @66438 has 11 MA's), (10, 66366), (11, 66318), (15, 66237), (18, 66189), (19, 66177), (22, 66150), (28, 66018), (29, 66012),

Gene: Cracklewink\_81 Start: 52443, Stop: 52874, Start Num: 7

Candidate Starts for Cracklewink\_81:

(Start: 7 @52443 has 11 MA's), (8, 52455), (9, 52506), (15, 52647), (17, 52689), (20, 52716), (23, 52737),

Gene: Dewdrop\_17 Start: 8163, Stop: 8594, Start Num: 6

Candidate Starts for Dewdrop\_17:

(Start: 6 @8163 has 2 MA's), (9, 8232), (13, 8325), (14, 8355), (21, 8439), (27, 8553),

Gene: Douge\_135 Start: 69158, Stop: 68724, Start Num: 7

Candidate Starts for Douge\_135:

(5, 69173), (Start: 7 @69158 has 11 MA's), (12, 69017), (25, 68810), (29, 68732),

Gene: DyoEdafos\_137 Start: 68722, Stop: 68288, Start Num: 7

Candidate Starts for DyoEdafos\_137:

(Start: 7 @68722 has 11 MA's), (9, 68662), (11, 68602), (19, 68461), (25, 68374), (29, 68296),

Gene: Finemlucis\_123 Start: 67809, Stop: 67375, Start Num: 7

Candidate Starts for Finemlucis\_123:

(Start: 7 @67809 has 11 MA's), (11, 67689), (15, 67608), (19, 67548), (24, 67497), (29, 67383),

Gene: Jobypre\_120 Start: 66364, Stop: 66002, Start Num: 10

Candidate Starts for Jobypre\_120:

(Start: 7 @66436 has 11 MA's), (10, 66364), (11, 66316), (15, 66235), (18, 66187), (19, 66175), (22, 66148), (28, 66016), (29, 66010),

Gene: Jubie\_119 Start: 66571, Stop: 66137, Start Num: 7

Candidate Starts for Jubie\_119:

(Start: 7 @66571 has 11 MA's), (10, 66499), (11, 66451), (15, 66370), (18, 66322), (19, 66310), (22, 66283), (28, 66151), (29, 66145),

Gene: Leaf\_17 Start: 8163, Stop: 8594, Start Num: 6

Candidate Starts for Leaf\_17:

(Start: 6 @8163 has 2 MA's), (9, 8232), (13, 8325), (14, 8355), (21, 8439), (27, 8553),

Gene: Lumos\_119 Start: 66433, Stop: 65999, Start Num: 7

Candidate Starts for Lumos\_119:

(Start: 7 @66433 has 11 MA's), (10, 66361), (11, 66313), (15, 66232), (18, 66184), (19, 66172), (22, 66145), (28, 66013), (29, 66007),

Gene: MsGreen\_120 Start: 66435, Stop: 66001, Start Num: 7

Candidate Starts for MsGreen\_120:

(Start: 7 @66435 has 11 MA's), (10, 66363), (11, 66315), (15, 66234), (18, 66186), (19, 66174), (22, 66147), (28, 66015), (29, 66009),

Gene: Snenia\_118 Start: 66437, Stop: 66003, Start Num: 7

Candidate Starts for Snenia\_118:

(Start: 7 @66437 has 11 MA's), (10, 66365), (11, 66317), (15, 66236), (18, 66188), (19, 66176), (22, 66149), (28, 66017), (29, 66011),

Gene: StAugustine\_154 Start: 85832, Stop: 85404, Start Num: 7

Candidate Starts for StAugustine\_154:

(1, 86042), (Start: 7 @85832 has 11 MA's), (15, 85631), (16, 85598), (25, 85490), (26, 85451), (28, 85418),

Gene: Tourach\_126 Start: 68323, Stop: 67889, Start Num: 7

Candidate Starts for Tourach\_126:

(Start: 7 @68323 has 11 MA's), (9, 68263), (11, 68203), (16, 68089), (19, 68062), (29, 67897),

Gene: Whirlwind\_120 Start: 66784, Stop: 66335, Start Num: 4

Candidate Starts for Whirlwind\_120:

(Start: 4 @66784 has 1 MA's), (Start: 7 @66769 has 11 MA's), (10, 66697), (11, 66649), (16, 66535), (18, 66520), (24, 66457), (29, 66343),