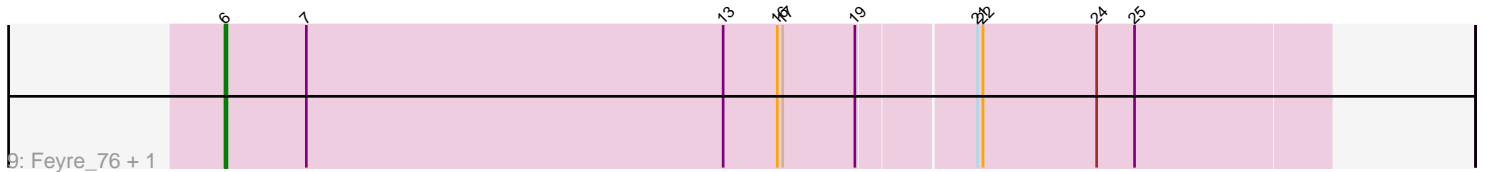
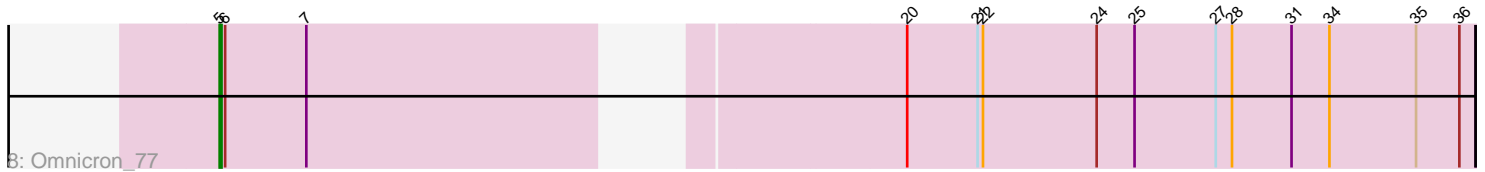
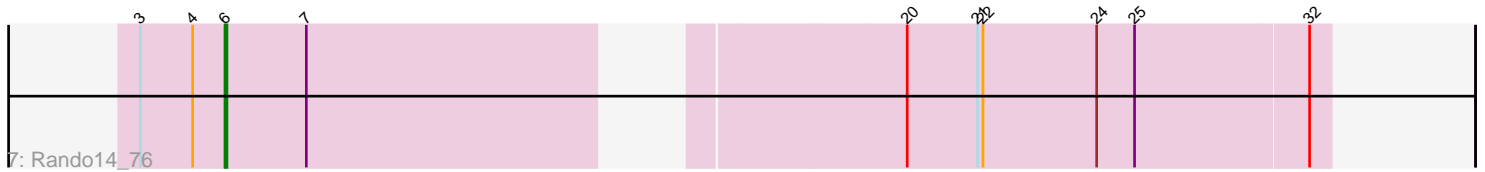
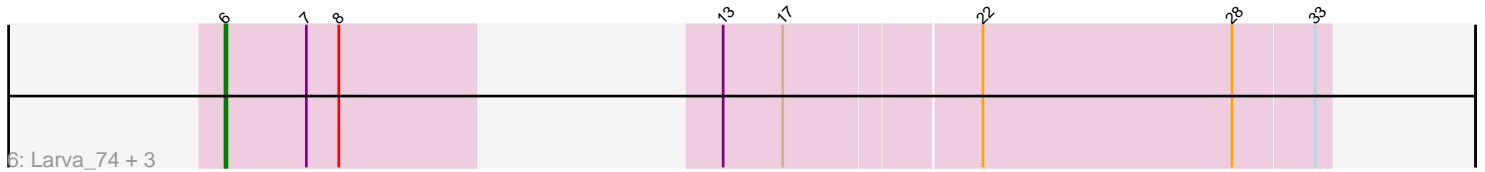
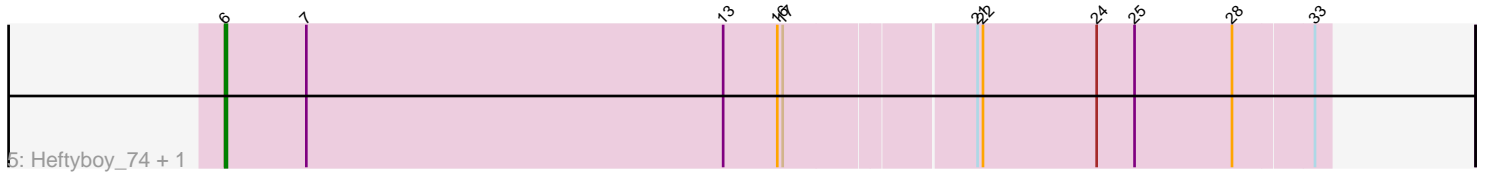
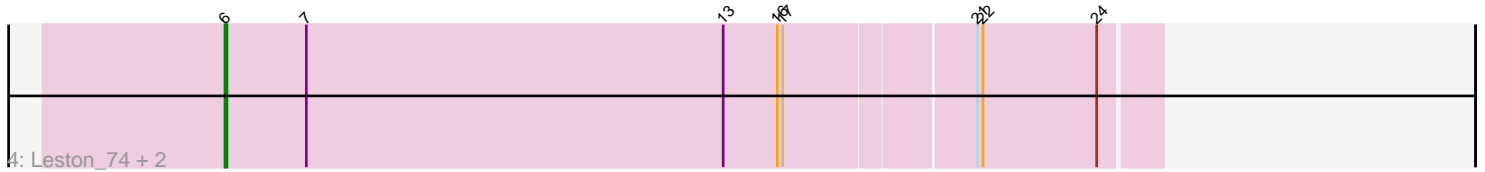
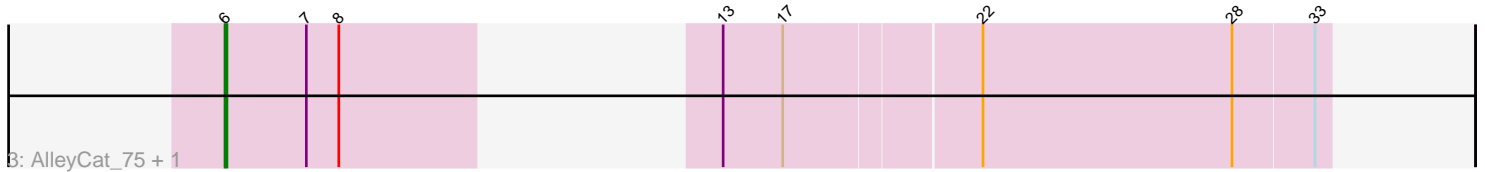
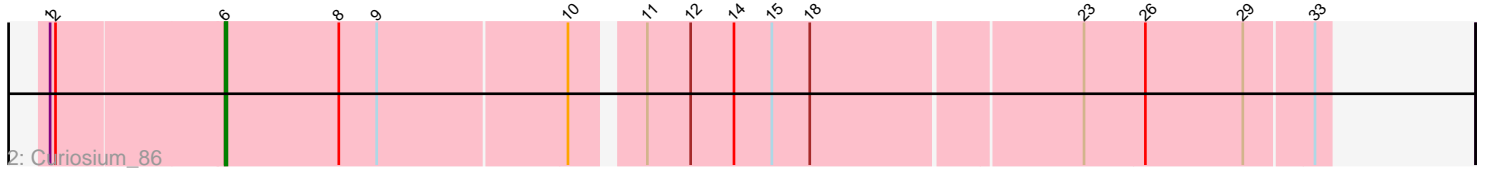
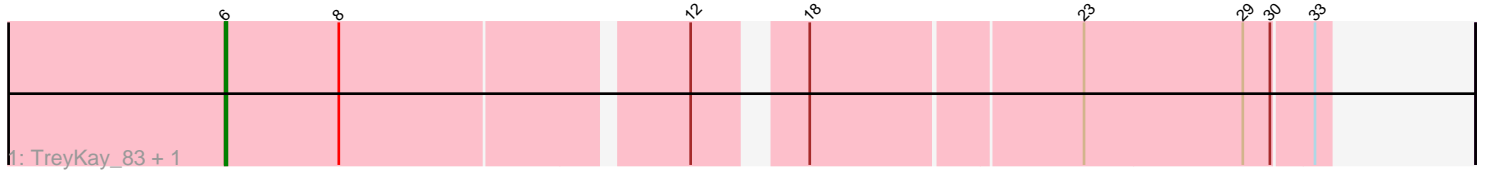


Pham 295142



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 295142 Report

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

Pham number 295142 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : TreyKay\_83, Prithvi\_83
- Track 2 : Curiosium\_86
- Track 3 : AlleyCat\_75, Edugator\_71
- Track 4 : Leston\_74, Guillsminger\_75, Paola\_74
- Track 5 : Heftyboy\_74, SoSeph\_74
- Track 6 : Larva\_74, Dadosky\_75, Psycho\_73, Neighly\_75
- Track 7 : Rando14\_76
- Track 8 : Omnicron\_77
- Track 9 : Feyre\_76, Miryou\_77

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

The start number called the most often in the published annotations is 6, it was called in 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlleyCat\_75, Curiosium\_86, Dadosky\_75, Edugator\_71, Feyre\_76, Guillsminger\_75, Heftyboy\_74, Larva\_74, Leston\_74, Miryou\_77, Neighly\_75, Paola\_74, Prithvi\_83, Psycho\_73, Rando14\_76, SoSeph\_74, TreyKay\_83,

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

- Omnicron\_77,

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

- 

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

Start 5:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Omnicron\_77 (K5),

Start 6:

- Found in 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 17
- Called 94.4% of time when present
- Phage (with cluster) where this start called: AlleyCat\_75 (K5), Curiosium\_86 (K1), Dadosky\_75 (K5), Edugator\_71 (K5), Feyre\_76 (K5), Guillsminger\_75 (K5), Heftyboy\_74 (K5), Larva\_74 (K5), Leston\_74 (K5), Miryou\_77 (K5), Neighly\_75 (K3), Paola\_74 (K5), Prithvi\_83 (K1), Psycho\_73 (K5), Rando14\_76 (K5), SoSeph\_74 (K5), TreyKay\_83 (K1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: K3, K1, K5,

Info for manual annotations of cluster K1:

- Start number 6 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K5:

- Start number 5 was manually annotated 1 time for cluster K5.
- Start number 6 was manually annotated 13 times for cluster K5.

### **Gene Information:**

Gene: AlleyCat\_75 Start: 49520, Stop: 50002, Start Num: 6

Candidate Starts for AlleyCat\_75:

(Start: 6 @49520 has 16 MA's), (7, 49565), (8, 49583), (13, 49679), (17, 49712), (22, 49814), (28, 49952), (33, 49994),

Gene: Curiosium\_86 Start: 52181, Stop: 52765, Start Num: 6

Candidate Starts for Curiosium\_86:

(1, 52091), (2, 52094), (Start: 6 @52181 has 16 MA's), (8, 52244), (9, 52265), (10, 52367), (11, 52400), (12, 52424), (14, 52448), (15, 52469), (18, 52490), (23, 52634), (26, 52667), (29, 52721), (33, 52757),

Gene: Dadosky\_75 Start: 49521, Stop: 50003, Start Num: 6

Candidate Starts for Dadosky\_75:

(Start: 6 @49521 has 16 MA's), (7, 49566), (8, 49584), (13, 49680), (17, 49713), (22, 49815), (28, 49953), (33, 49995),

Gene: Edugator\_71 Start: 50692, Stop: 51174, Start Num: 6

Candidate Starts for Edugator\_71:

(Start: 6 @50692 has 16 MA's), (7, 50737), (8, 50755), (13, 50851), (17, 50884), (22, 50986), (28, 51124), (33, 51166),

Gene: Feyre\_76 Start: 52938, Stop: 53537, Start Num: 6

Candidate Starts for Feyre\_76:

(Start: 6 @52938 has 16 MA's), (7, 52983), (13, 53214), (16, 53244), (17, 53247), (19, 53286), (21, 53346), (22, 53349), (24, 53412), (25, 53433),

Gene: Guillsminger\_75 Start: 51109, Stop: 51615, Start Num: 6

Candidate Starts for Guillsminger\_75:

(Start: 6 @51109 has 16 MA's), (7, 51154), (13, 51385), (16, 51415), (17, 51418), (21, 51517), (22, 51520), (24, 51583),

Gene: Heftyboy\_74 Start: 51216, Stop: 51815, Start Num: 6

Candidate Starts for Heftyboy\_74:

(Start: 6 @51216 has 16 MA's), (7, 51261), (13, 51492), (16, 51522), (17, 51525), (21, 51624), (22, 51627), (24, 51690), (25, 51711), (28, 51765), (33, 51807),

Gene: Larva\_74 Start: 50393, Stop: 50875, Start Num: 6

Candidate Starts for Larva\_74:

(Start: 6 @50393 has 16 MA's), (7, 50438), (8, 50456), (13, 50552), (17, 50585), (22, 50687), (28, 50825), (33, 50867),

Gene: Leston\_74 Start: 51226, Stop: 51732, Start Num: 6

Candidate Starts for Leston\_74:

(Start: 6 @51226 has 16 MA's), (7, 51271), (13, 51502), (16, 51532), (17, 51535), (21, 51634), (22, 51637), (24, 51700),

Gene: Miryou\_77 Start: 53605, Stop: 54204, Start Num: 6

Candidate Starts for Miryou\_77:

(Start: 6 @53605 has 16 MA's), (7, 53650), (13, 53881), (16, 53911), (17, 53914), (19, 53953), (21, 54013), (22, 54016), (24, 54079), (25, 54100),

Gene: Neighly\_75 Start: 50392, Stop: 50874, Start Num: 6

Candidate Starts for Neighly\_75:

(Start: 6 @50392 has 16 MA's), (7, 50437), (8, 50455), (13, 50551), (17, 50584), (22, 50686), (28, 50824), (33, 50866),

Gene: Omnicron\_77 Start: 52284, Stop: 52922, Start Num: 5

Candidate Starts for Omnicron\_77:

(Start: 5 @52284 has 1 MA's), (Start: 6 @52287 has 16 MA's), (7, 52332), (20, 52608), (21, 52647), (22, 52650), (24, 52713), (25, 52734), (27, 52779), (28, 52788), (31, 52821), (34, 52842), (35, 52890), (36, 52914),

Gene: Paola\_74 Start: 51109, Stop: 51615, Start Num: 6

Candidate Starts for Paola\_74:

(Start: 6 @51109 has 16 MA's), (7, 51154), (13, 51385), (16, 51415), (17, 51418), (21, 51517), (22, 51520), (24, 51583),

Gene: Prithvi\_83 Start: 52889, Stop: 53455, Start Num: 6

Candidate Starts for Prithvi\_83:

(Start: 6 @52889 has 16 MA's), (8, 52952), (12, 53132), (18, 53180), (23, 53324), (29, 53411), (30, 53426), (33, 53447),

Gene: Psycho\_73 Start: 49518, Stop: 50000, Start Num: 6

Candidate Starts for Psycho\_73:

(Start: 6 @49518 has 16 MA's), (7, 49563), (8, 49581), (13, 49677), (17, 49710), (22, 49812), (28, 49950), (33, 49992),

Gene: Rando14\_76 Start: 50969, Stop: 51520, Start Num: 6

Candidate Starts for Rando14\_76:

(3, 50924), (4, 50951), (Start: 6 @50969 has 16 MA's), (7, 51014), (20, 51290), (21, 51329), (22, 51332), (24, 51395), (25, 51416), (32, 51509),

Gene: SoSeph\_74 Start: 51216, Stop: 51815, Start Num: 6

Candidate Starts for SoSeph\_74:

(Start: 6 @51216 has 16 MA's), (7, 51261), (13, 51492), (16, 51522), (17, 51525), (21, 51624), (22, 51627), (24, 51690), (25, 51711), (28, 51765), (33, 51807),

Gene: TreyKay\_83 Start: 52889, Stop: 53455, Start Num: 6

Candidate Starts for TreyKay\_83:

(Start: 6 @52889 has 16 MA's), (8, 52952), (12, 53132), (18, 53180), (23, 53324), (29, 53411), (30, 53426), (33, 53447),