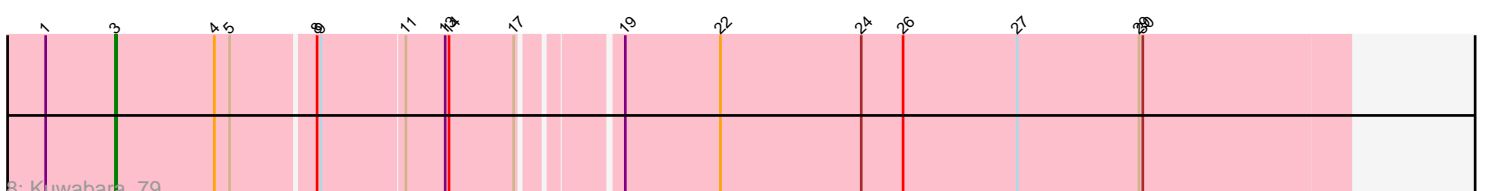
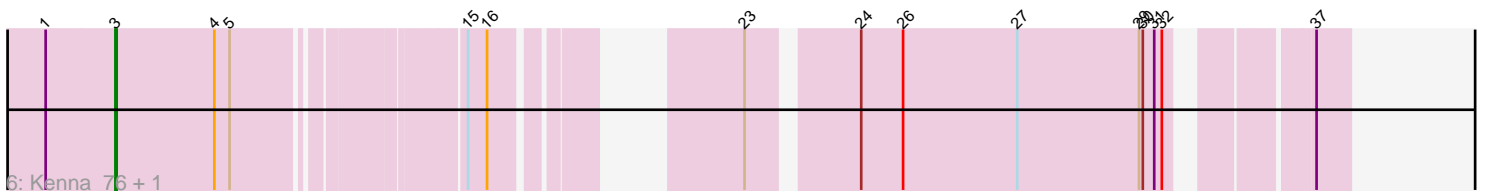
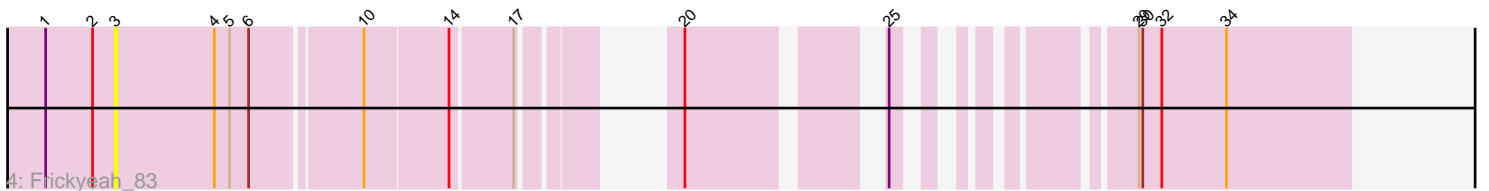
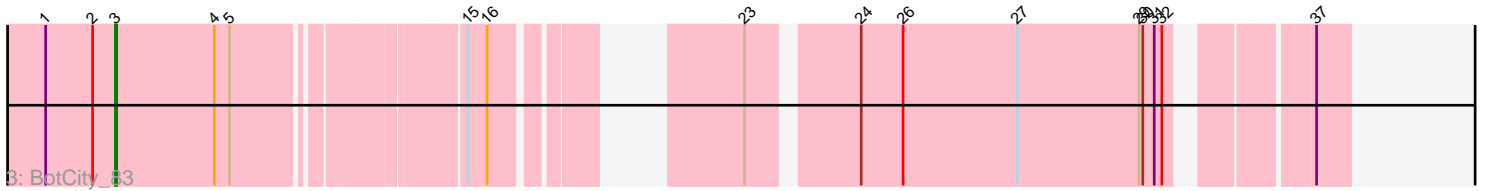
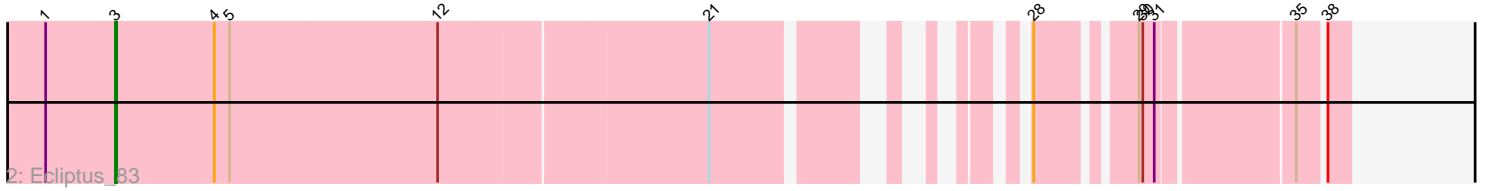
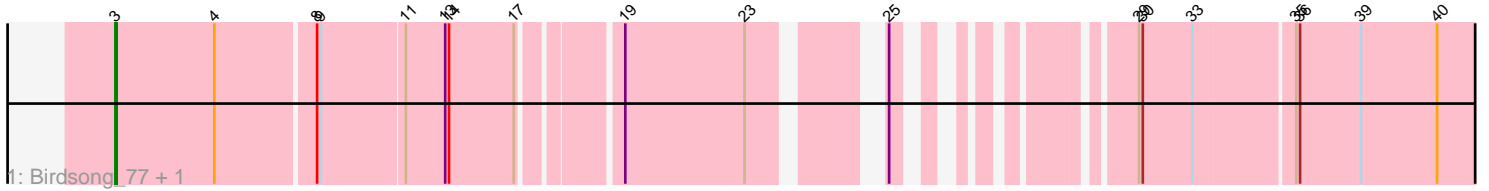


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 295271 Report

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

Pham number 295271 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Birdsong\_77, Asapag\_78
- Track 2 : Ecliptus\_83
- Track 3 : BotCity\_83
- Track 4 : Frickyeah\_83
- Track 5 : Horus\_79, Phistory\_76, Crater\_77
- Track 6 : Kenna\_76, Lutum\_82
- Track 7 : Leroy\_78
- Track 8 : Kuwabara\_79

### ***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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag\_78, Birdsong\_77, BotCity\_83, Crater\_77, Ecliptus\_83, Frickyeah\_83, Horus\_79, Kenna\_76, Kuwabara\_79, Leroy\_78, Lutum\_82, Phistory\_76,

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

- 

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

- 

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

Start 3:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asapag\_78 (DN1), Birdsong\_77 (DN), BotCity\_83 (DN), Crater\_77 (DN3), Ecliptus\_83 (DN), Frickyeah\_83 (DN1), Horus\_79 (DN1), Kenna\_76 (DN1), Kuwabara\_79 (DN4), Leroy\_78 (DN1), Lutum\_82 (DN1), Phistory\_76 (DN1),

## Summary by clusters:

There are 4 clusters represented in this pham: DN, DN4, DN1, DN3,

Info for manual annotations of cluster DN:

- Start number 3 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 3 was manually annotated 6 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 3 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 3 was manually annotated 1 time for cluster DN4.

## Gene Information:

Gene: Asapag\_78 Start: 44830, Stop: 45786, Start Num: 3

Candidate Starts for Asapag\_78:

(Start: 3 @44830 has 11 MA's), (4, 44908), (8, 44983), (9, 44986), (11, 45049), (13, 45079), (14, 45082), (17, 45133), (19, 45199), (23, 45292), (25, 45364), (29, 45484), (30, 45487), (33, 45526), (35, 45601), (36, 45604), (39, 45652), (40, 45712),

Gene: Birdsong\_77 Start: 44566, Stop: 45522, Start Num: 3

Candidate Starts for Birdsong\_77:

(Start: 3 @44566 has 11 MA's), (4, 44644), (8, 44719), (9, 44722), (11, 44785), (13, 44815), (14, 44818), (17, 44869), (19, 44935), (23, 45028), (25, 45100), (29, 45220), (30, 45223), (33, 45262), (35, 45337), (36, 45340), (39, 45388), (40, 45448),

Gene: BotCity\_83 Start: 47079, Stop: 47891, Start Num: 3

Candidate Starts for BotCity\_83:

(1, 47025), (2, 47061), (Start: 3 @47079 has 11 MA's), (4, 47157), (5, 47169), (15, 47325), (16, 47340), (23, 47469), (24, 47541), (26, 47574), (27, 47664), (29, 47760), (30, 47763), (31, 47772), (32, 47778), (37, 47865),

Gene: Crater\_77 Start: 44364, Stop: 45185, Start Num: 3

Candidate Starts for Crater\_77:

(Start: 3 @44364 has 11 MA's), (4, 44442), (5, 44454), (12, 44616), (21, 44820), (28, 44976), (29, 45039), (30, 45042), (31, 45051), (35, 45150), (38, 45168),

Gene: Ecliptus\_83 Start: 47333, Stop: 48154, Start Num: 3

Candidate Starts for Ecliptus\_83:

(1, 47279), (Start: 3 @47333 has 11 MA's), (4, 47411), (5, 47423), (12, 47585), (21, 47789), (28, 47945), (29, 48008), (30, 48011), (31, 48020), (35, 48119), (38, 48137),

Gene: Frickyeah\_83 Start: 45702, Stop: 46463, Start Num: 3

Candidate Starts for Frickyeah\_83:

(1, 45648), (2, 45684), (Start: 3 @45702 has 11 MA's), (4, 45780), (5, 45792), (6, 45807), (10, 45888), (14, 45951), (17, 45996), (20, 46059), (25, 46179), (29, 46299), (30, 46302), (32, 46317), (34, 46368),

Gene: Horus\_79 Start: 46431, Stop: 47252, Start Num: 3

Candidate Starts for Horus\_79:

(Start: 3 @46431 has 11 MA's), (4, 46509), (5, 46521), (12, 46683), (21, 46887), (28, 47043), (29, 47106), (30, 47109), (31, 47118), (35, 47217), (38, 47235),

Gene: Kenna\_76 Start: 44823, Stop: 45635, Start Num: 3

Candidate Starts for Kenna\_76:

(1, 44769), (Start: 3 @44823 has 11 MA's), (4, 44901), (5, 44913), (15, 45069), (16, 45084), (23, 45213), (24, 45285), (26, 45318), (27, 45408), (29, 45504), (30, 45507), (31, 45516), (32, 45522), (37, 45609),

Gene: Kuwabara\_79 Start: 46663, Stop: 47598, Start Num: 3

Candidate Starts for Kuwabara\_79:

(1, 46609), (Start: 3 @46663 has 11 MA's), (4, 46741), (5, 46753), (8, 46816), (9, 46819), (11, 46882), (13, 46912), (14, 46915), (17, 46966), (19, 47032), (22, 47107), (24, 47215), (26, 47248), (27, 47338), (29, 47434), (30, 47437),

Gene: Leroy\_78 Start: 44626, Stop: 45447, Start Num: 3

Candidate Starts for Leroy\_78:

(Start: 3 @44626 has 11 MA's), (4, 44701), (5, 44713), (7, 44764), (18, 44998), (21, 45082), (28, 45238), (29, 45301), (30, 45304), (31, 45313), (35, 45412), (38, 45430),

Gene: Lutum\_82 Start: 45985, Stop: 46797, Start Num: 3

Candidate Starts for Lutum\_82:

(1, 45931), (Start: 3 @45985 has 11 MA's), (4, 46063), (5, 46075), (15, 46231), (16, 46246), (23, 46375), (24, 46447), (26, 46480), (27, 46570), (29, 46666), (30, 46669), (31, 46678), (32, 46684), (37, 46771),

Gene: Phistory\_76 Start: 43529, Stop: 44350, Start Num: 3

Candidate Starts for Phistory\_76:

(Start: 3 @43529 has 11 MA's), (4, 43607), (5, 43619), (12, 43781), (21, 43985), (28, 44141), (29, 44204), (30, 44207), (31, 44216), (35, 44315), (38, 44333),