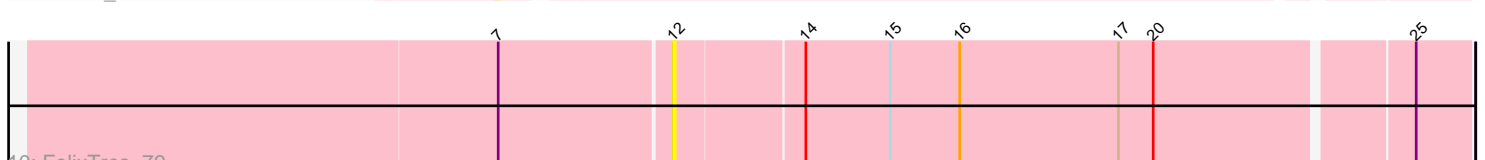
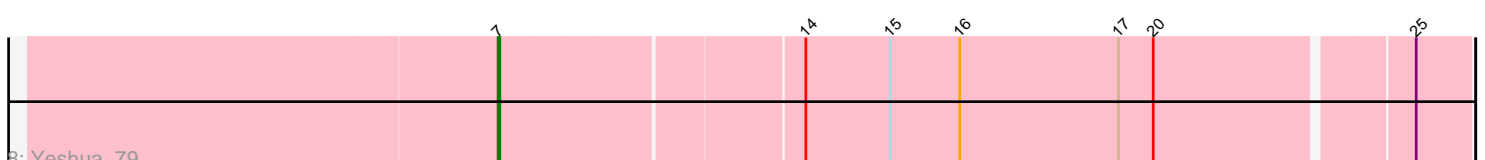
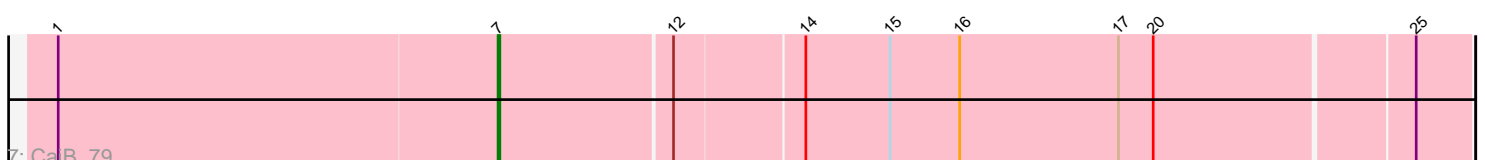
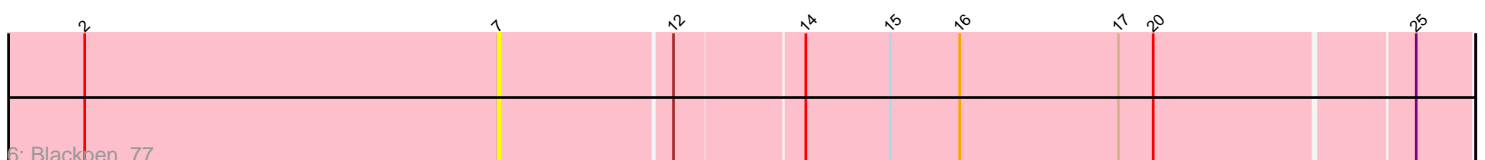
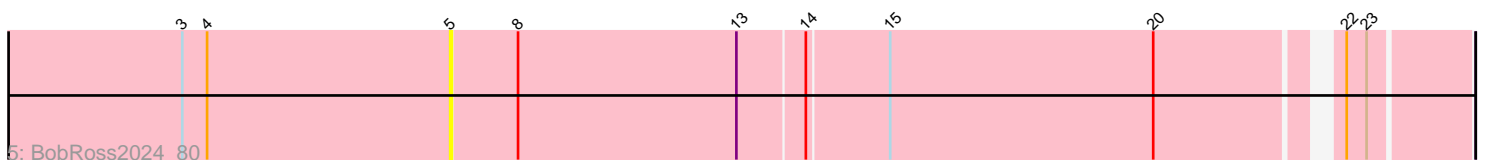
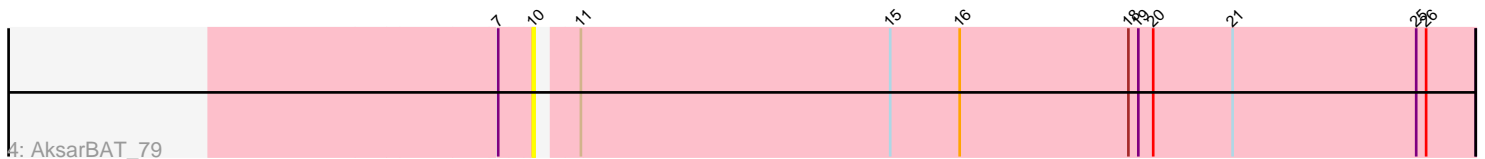
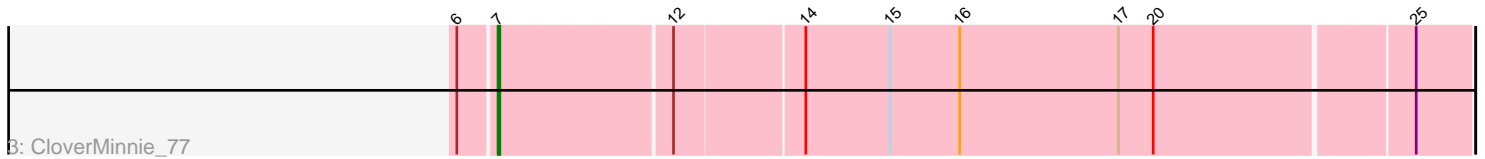
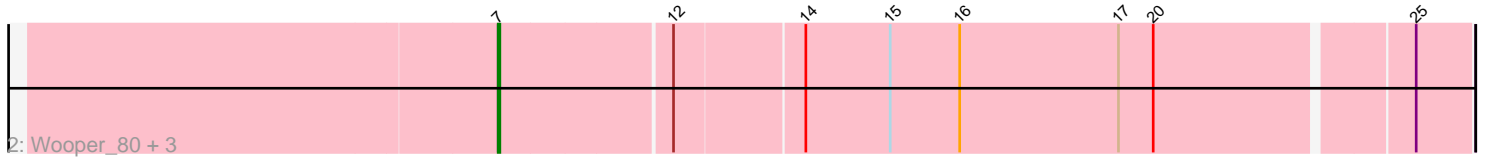
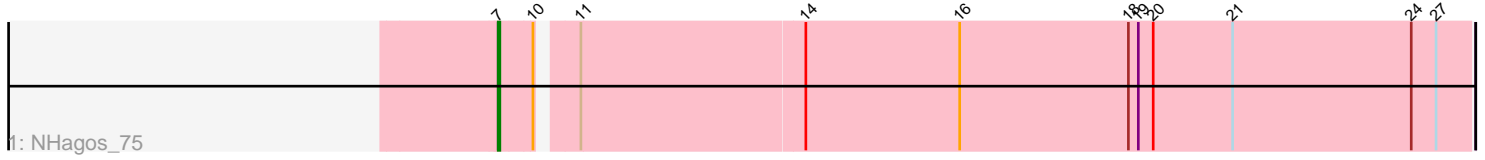


# Pham 295234



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 295234 Report

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

Pham number 295234 has 13 members, 5 are drafts.

Phages represented in each track:

- Track 1 : NHagos\_75
- Track 2 : Wooper\_80, MakoManhole\_75, AnarQue\_80, MossRose\_78
- Track 3 : CloverMinnie\_77
- Track 4 : AksarBAT\_79
- Track 5 : BobRoss2024\_80
- Track 6 : Blackpen\_77
- Track 7 : CaiB\_79
- Track 8 : Yeshua\_79
- Track 9 : TraderJ\_79
- Track 10 : FelixTres\_79

### ***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 8 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnarQue\_80, Blackpen\_77, CaiB\_79, CloverMinnie\_77, MakoManhole\_75, MossRose\_78, NHagos\_75, TraderJ\_79, Wooper\_80, Yeshua\_79,

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

- AksarBAT\_79, FelixTres\_79,

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

- BobRoss2024\_80,

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

Start 5:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobRoss2024\_80 (DR),

Start 7:

- Found in 12 of 13 ( 92.3% ) of genes in pham
- Manual Annotations of this start: 8 of 8
- Called 83.3% of time when present
- Phage (with cluster) where this start called: AnarQue\_80 (DR), Blackpen\_77 (DR), CaiB\_79 (DR), CloverMinnie\_77 (DR), MakoManhole\_75 (DR), MossRose\_78 (DR), NHagos\_75 (DR), TraderJ\_79 (DR), Wooper\_80 (DR), Yeshua\_79 (DR),

Start 10:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AksarBAT\_79 (DR),

Start 12:

- Found in 8 of 13 ( 61.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: FelixTres\_79 (DR),

**Summary by clusters:**

There is one cluster represented in this pham: DR

Info for manual annotations of cluster DR:

- Start number 7 was manually annotated 8 times for cluster DR.

**Gene Information:**

Gene: AksarBAT\_79 Start: 57782, Stop: 57225, Start Num: 10

Candidate Starts for AksarBAT\_79:

(Start: 7 @57800 has 8 MA's), (10, 57782), (11, 57764), (15, 57578), (16, 57536), (18, 57434), (19, 57428), (20, 57419), (21, 57371), (25, 57260), (26, 57254),

Gene: AnarQue\_80 Start: 58928, Stop: 58365, Start Num: 7

Candidate Starts for AnarQue\_80:

(Start: 7 @58928 has 8 MA's), (12, 58829), (14, 58754), (15, 58703), (16, 58661), (17, 58565), (20, 58544), (25, 58397),

Gene: Blackpen\_77 Start: 57391, Stop: 56825, Start Num: 7

Candidate Starts for Blackpen\_77:

(2, 57637), (Start: 7 @57391 has 8 MA's), (12, 57292), (14, 57217), (15, 57166), (16, 57124), (17, 57028), (20, 57007), (25, 56857),

Gene: BobRoss2024\_80 Start: 58265, Stop: 57684, Start Num: 5

Candidate Starts for BobRoss2024\_80:

(3, 58427), (4, 58412), (5, 58265), (8, 58226), (13, 58094), (14, 58055), (15, 58007), (20, 57848), (22, 57752), (23, 57740),

Gene: CaiB\_79 Start: 58726, Stop: 58160, Start Num: 7

Candidate Starts for CaiB\_79:

(1, 58987), (Start: 7 @58726 has 8 MA's), (12, 58627), (14, 58552), (15, 58501), (16, 58459), (17, 58363), (20, 58342), (25, 58192),

Gene: CloverMinnie\_77 Start: 57895, Stop: 57329, Start Num: 7

Candidate Starts for CloverMinnie\_77:

(6, 57916), (Start: 7 @57895 has 8 MA's), (12, 57796), (14, 57721), (15, 57670), (16, 57628), (17, 57532), (20, 57511), (25, 57361),

Gene: FelixTres\_79 Start: 58071, Stop: 57607, Start Num: 12

Candidate Starts for FelixTres\_79:

(Start: 7 @58170 has 8 MA's), (12, 58071), (14, 57996), (15, 57945), (16, 57903), (17, 57807), (20, 57786), (25, 57639),

Gene: MakoManhole\_75 Start: 57267, Stop: 56704, Start Num: 7

Candidate Starts for MakoManhole\_75:

(Start: 7 @57267 has 8 MA's), (12, 57168), (14, 57093), (15, 57042), (16, 57000), (17, 56904), (20, 56883), (25, 56736),

Gene: MossRose\_78 Start: 58178, Stop: 57615, Start Num: 7

Candidate Starts for MossRose\_78:

(Start: 7 @58178 has 8 MA's), (12, 58079), (14, 58004), (15, 57953), (16, 57911), (17, 57815), (20, 57794), (25, 57647),

Gene: NHagos\_75 Start: 56476, Stop: 55907, Start Num: 7

Candidate Starts for NHagos\_75:

(Start: 7 @56476 has 8 MA's), (10, 56458), (11, 56440), (14, 56308), (16, 56215), (18, 56113), (19, 56107), (20, 56098), (21, 56050), (24, 55942), (27, 55927),

Gene: TraderJ\_79 Start: 58292, Stop: 57744, Start Num: 7

Candidate Starts for TraderJ\_79:

(Start: 7 @58292 has 8 MA's), (9, 58274), (11, 58256), (15, 58070), (16, 58028), (20, 57911), (25, 57776),

Gene: Wooper\_80 Start: 58260, Stop: 57697, Start Num: 7

Candidate Starts for Wooper\_80:

(Start: 7 @58260 has 8 MA's), (12, 58161), (14, 58086), (15, 58035), (16, 57993), (17, 57897), (20, 57876), (25, 57729),

Gene: Yeshua\_79 Start: 58236, Stop: 57673, Start Num: 7

Candidate Starts for Yeshua\_79:

(Start: 7 @58236 has 8 MA's), (14, 58062), (15, 58011), (16, 57969), (17, 57873), (20, 57852), (25, 57705),