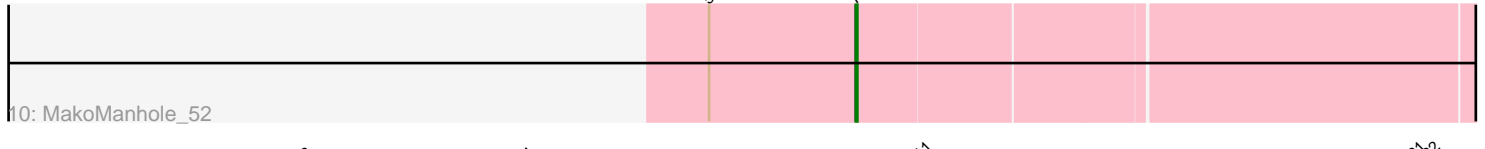
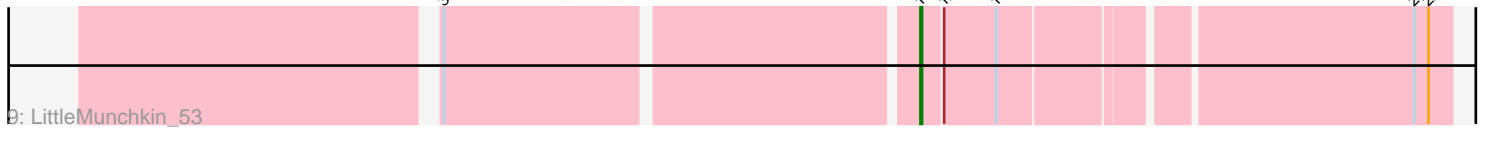
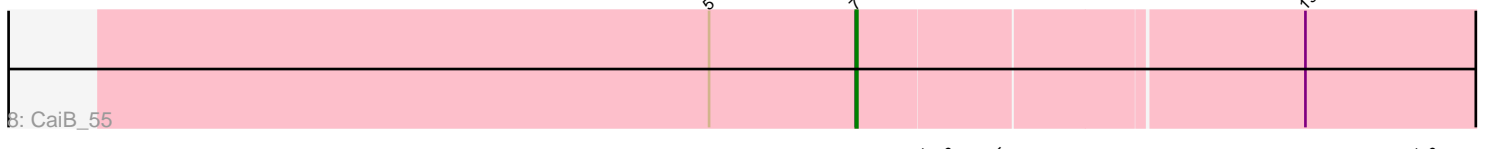
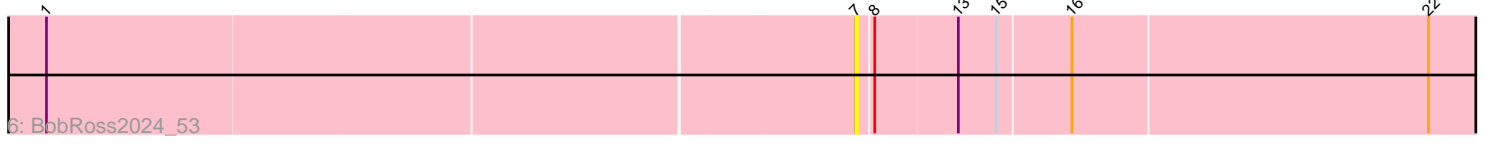
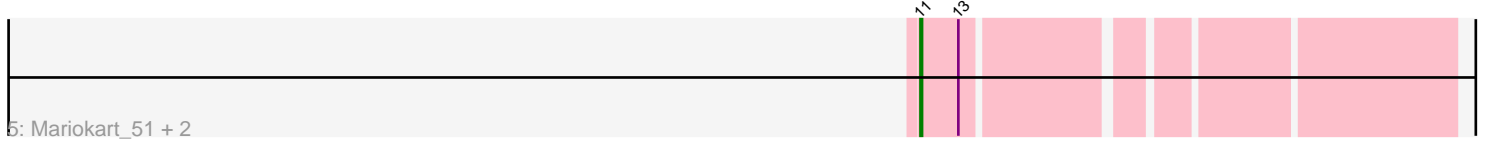
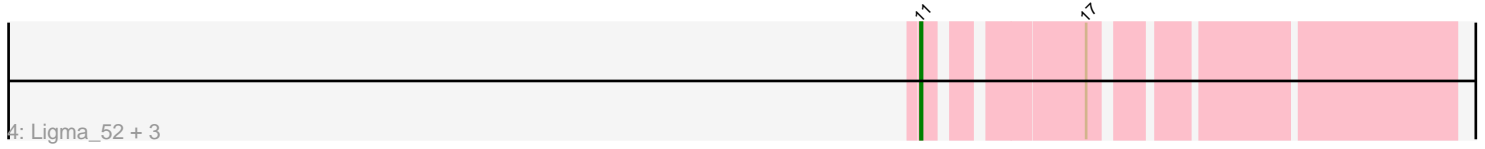
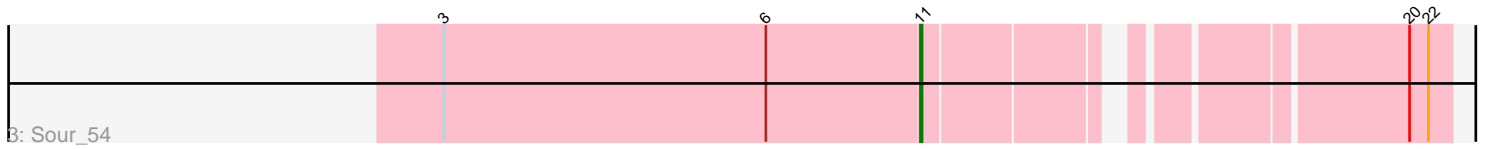
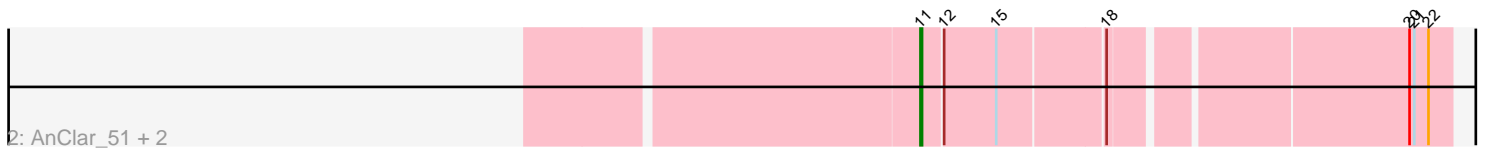


Pham 301680



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 301680 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301680 has 26 members, 6 are drafts.

Phages represented in each track:

- Track 1 : CloverMinnie\_54, Blackpen\_54, FelixTres\_54, MossRose\_54, Wooper\_55, TraderJ\_55, AnarQue\_55, Yeshua\_55
- Track 2 : AnClar\_51, Sisko\_50, Yago84\_50
- Track 3 : Sour\_54
- Track 4 : Ligma\_52, Fresco\_52, Axumite\_52, Shatter\_52
- Track 5 : Mariokart\_51, CharlottesWeb\_51, JellyBelly\_50
- Track 6 : BobRoss2024\_53
- Track 7 : NHagos\_53, AksarBAT\_54
- Track 8 : CaiB\_55
- Track 9 : LittleMunchkin\_53
- Track 10 : MakoManhole\_52
- Track 11 : BiggityBass\_50

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

The start number called the most often in the published annotations is 11, it was called in 11 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnClar\_51, Axumite\_52, BiggityBass\_50, CharlottesWeb\_51, Fresco\_52, JellyBelly\_50, Ligma\_52, LittleMunchkin\_53, Mariokart\_51, Shatter\_52, Sisko\_50, Sour\_54, Yago84\_50,

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

- 

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

- AksarBAT\_54, AnarQue\_55, Blackpen\_54, BobRoss2024\_53, CaiB\_55, CloverMinnie\_54, FelixTres\_54, MakoManhole\_52, MossRose\_54, NHagos\_53, TraderJ\_55, Wooper\_55, Yeshua\_55,

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

Start 7:

- Found in 13 of 26 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 9 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AksarBAT\_54 (DR), AnarQue\_55 (DR), Blackpen\_54 (DR), BobRoss2024\_53 (DR), CaiB\_55 (DR), CloverMinnie\_54 (DR), FelixTres\_54 (DR), MakoManhole\_52 (DR), MossRose\_54 (DR), NHagos\_53 (DR), TraderJ\_55 (DR), Wooper\_55 (DR), Yeshua\_55 (DR),

Start 11:

- Found in 13 of 26 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 11 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnClar\_51 (DR), Axumite\_52 (DR), BiggityBass\_50 (DR), CharlottesWeb\_51 (DR), Fresco\_52 (DR), JellyBelly\_50 (DR), Ligma\_52 (DR), LittleMunchkin\_53 (DR), Mariokart\_51 (DR), Shatter\_52 (DR), Sisko\_50 (DR), Sour\_54 (DR), Yago84\_50 (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 9 times for cluster DR.
- Start number 11 was manually annotated 11 times for cluster DR.

### **Gene Information:**

Gene: AksarBAT\_54 Start: 47539, Stop: 47165, Start Num: 7

Candidate Starts for AksarBAT\_54:

(Start: 7 @47539 has 9 MA's), (9, 47530), (10, 47527), (14, 47476), (15, 47473), (20, 47215),

Gene: AnClar\_51 Start: 48276, Stop: 47968, Start Num: 11

Candidate Starts for AnClar\_51:

(Start: 11 @48276 has 11 MA's), (12, 48264), (15, 48231), (18, 48168), (20, 47994), (21, 47991), (22, 47982),

Gene: AnarQue\_55 Start: 48400, Stop: 48017, Start Num: 7

Candidate Starts for AnarQue\_55:

(Start: 7 @48400 has 9 MA's),

Gene: Axumite\_52 Start: 46268, Stop: 45978, Start Num: 11

Candidate Starts for Axumite\_52:

(Start: 11 @46268 has 11 MA's), (17, 46184),

Gene: BiggityBass\_50 Start: 47644, Stop: 47330, Start Num: 11

Candidate Starts for BiggityBass\_50:

(2, 48016), (4, 47875), (Start: 11 @47644 has 11 MA's), (21, 47353), (22, 47344),

Gene: Blackpen\_54 Start: 47469, Stop: 47086, Start Num: 7

Candidate Starts for Blackpen\_54:

(Start: 7 @47469 has 9 MA's),

Gene: BobRoss2024\_53 Start: 46786, Stop: 46394, Start Num: 7  
Candidate Starts for BobRoss2024\_53:  
(1, 47287), (Start: 7 @46786 has 9 MA's), (8, 46777), (13, 46726), (15, 46702), (16, 46657), (22, 46435),

Gene: CaiB\_55 Start: 48933, Stop: 48541, Start Num: 7  
Candidate Starts for CaiB\_55:  
(5, 49026), (Start: 7 @48933 has 9 MA's), (19, 48660),

Gene: CharlottesWeb\_51 Start: 45652, Stop: 45347, Start Num: 11  
Candidate Starts for CharlottesWeb\_51:  
(Start: 11 @45652 has 11 MA's), (13, 45628),

Gene: CloverMinnie\_54 Start: 47977, Stop: 47594, Start Num: 7  
Candidate Starts for CloverMinnie\_54:  
(Start: 7 @47977 has 9 MA's),

Gene: FelixTres\_54 Start: 48015, Stop: 47632, Start Num: 7  
Candidate Starts for FelixTres\_54:  
(Start: 7 @48015 has 9 MA's),

Gene: Fresco\_52 Start: 46268, Stop: 45978, Start Num: 11  
Candidate Starts for Fresco\_52:  
(Start: 11 @46268 has 11 MA's), (17, 46184),

Gene: JellyBelly\_50 Start: 45650, Stop: 45345, Start Num: 11  
Candidate Starts for JellyBelly\_50:  
(Start: 11 @45650 has 11 MA's), (13, 45626),

Gene: Ligma\_52 Start: 46268, Stop: 45978, Start Num: 11  
Candidate Starts for Ligma\_52:  
(Start: 11 @46268 has 11 MA's), (17, 46184),

Gene: LittleMunchkin\_53 Start: 48964, Stop: 48653, Start Num: 11  
Candidate Starts for LittleMunchkin\_53:  
(3, 49246), (Start: 11 @48964 has 11 MA's), (12, 48952), (15, 48919), (21, 48676), (22, 48667),

Gene: MakoManhole\_52 Start: 47472, Stop: 47083, Start Num: 7  
Candidate Starts for MakoManhole\_52:  
(5, 47565), (Start: 7 @47472 has 9 MA's),

Gene: Mariokart\_51 Start: 45938, Stop: 45633, Start Num: 11  
Candidate Starts for Mariokart\_51:  
(Start: 11 @45938 has 11 MA's), (13, 45914),

Gene: MossRose\_54 Start: 48034, Stop: 47651, Start Num: 7  
Candidate Starts for MossRose\_54:  
(Start: 7 @48034 has 9 MA's),

Gene: NHagos\_53 Start: 46811, Stop: 46533, Start Num: 7  
Candidate Starts for NHagos\_53:  
(Start: 7 @46811 has 9 MA's), (9, 46802), (10, 46799), (14, 46748), (15, 46745), (20, 46583),

Gene: Shatter\_52 Start: 46268, Stop: 45978, Start Num: 11  
Candidate Starts for Shatter\_52:  
(Start: 11 @46268 has 11 MA's), (17, 46184),

Gene: Sisko\_50 Start: 46279, Stop: 45971, Start Num: 11  
Candidate Starts for Sisko\_50:  
(Start: 11 @46279 has 11 MA's), (12, 46267), (15, 46234), (18, 46171), (20, 45997), (21, 45994), (22, 45985),

Gene: Sour\_54 Start: 49450, Stop: 49163, Start Num: 11  
Candidate Starts for Sour\_54:  
(3, 49750), (6, 49546), (Start: 11 @49450 has 11 MA's), (20, 49189), (22, 49177),

Gene: TraderJ\_55 Start: 48357, Stop: 47974, Start Num: 7  
Candidate Starts for TraderJ\_55:  
(Start: 7 @48357 has 9 MA's),

Gene: Wooper\_55 Start: 48366, Stop: 47983, Start Num: 7  
Candidate Starts for Wooper\_55:  
(Start: 7 @48366 has 9 MA's),

Gene: Yago84\_50 Start: 46354, Stop: 46046, Start Num: 11  
Candidate Starts for Yago84\_50:  
(Start: 11 @46354 has 11 MA's), (12, 46342), (15, 46309), (18, 46246), (20, 46072), (21, 46069), (22, 46060),

Gene: Yeshua\_55 Start: 48343, Stop: 47960, Start Num: 7  
Candidate Starts for Yeshua\_55:  
(Start: 7 @48343 has 9 MA's),