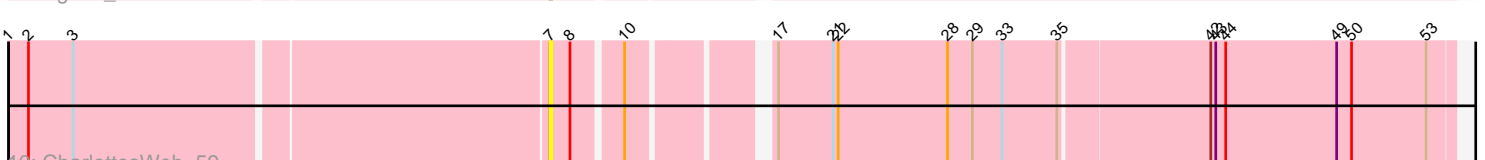
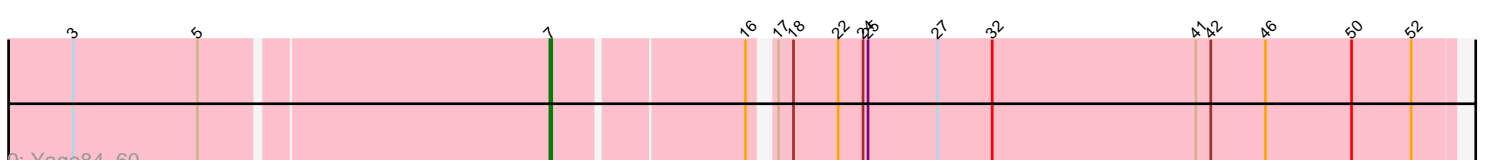
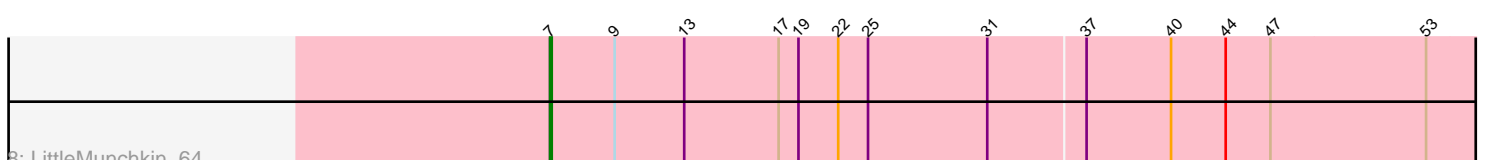
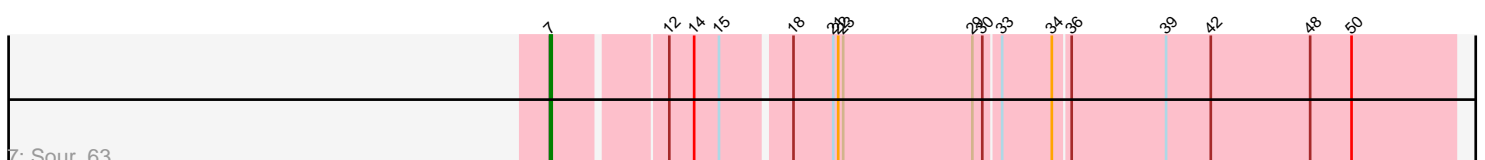
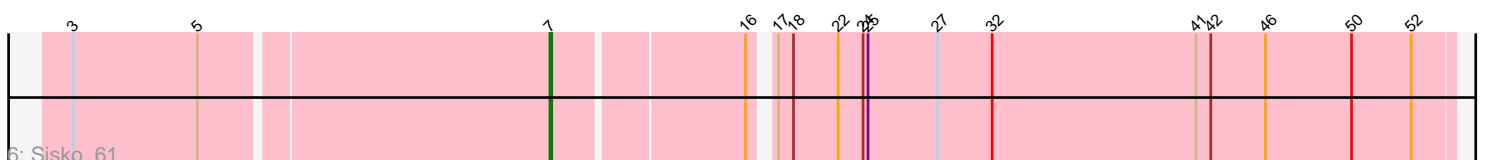
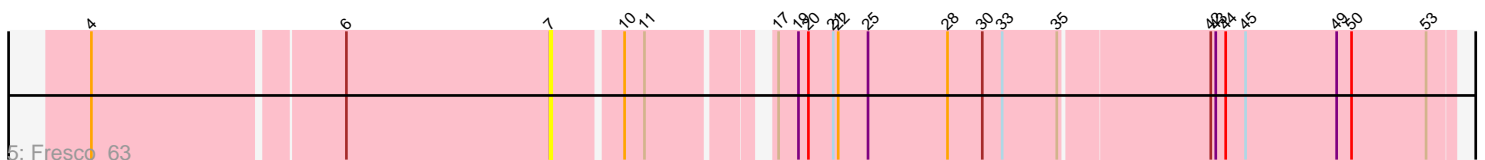
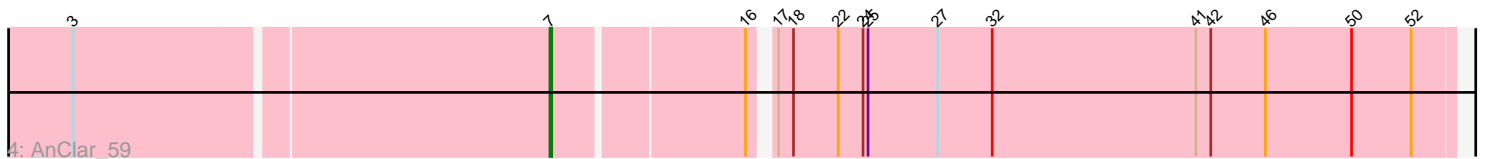
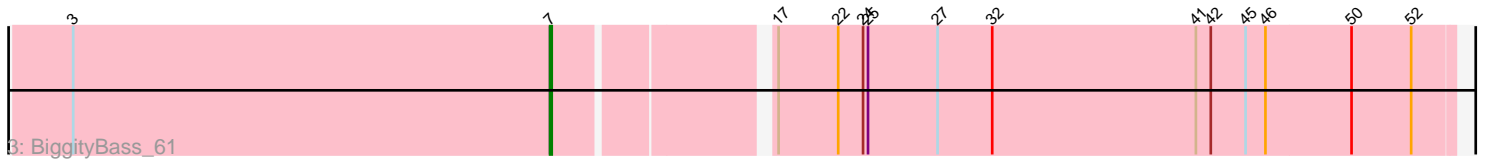
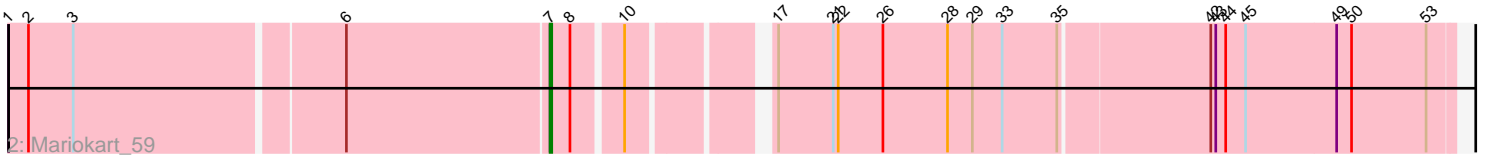
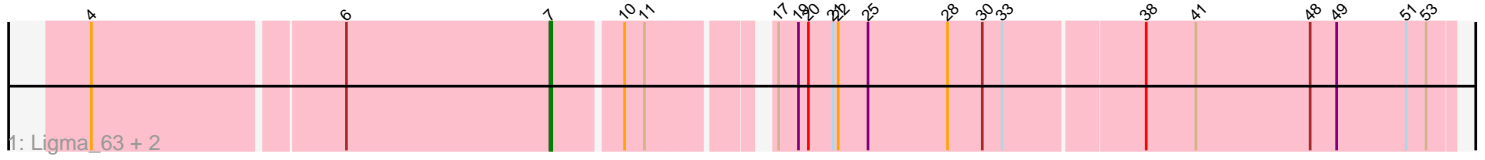


# Pham 158301



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 158301 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158301 has 12 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Ligma\_63, Axumite\_63, Shatter\_63
- Track 2 : Mariokart\_59
- Track 3 : BiggityBass\_61
- Track 4 : AnClar\_59
- Track 5 : Fresco\_63
- Track 6 : Sisko\_61
- Track 7 : Sour\_63
- Track 8 : LittleMunchkin\_64
- Track 9 : Yago84\_60
- Track 10 : CharlottesWeb\_59

### ***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 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AnClar\_59, Axumite\_63, BiggityBass\_61, CharlottesWeb\_59, Fresco\_63, Ligma\_63, LittleMunchkin\_64, Mariokart\_59, Shatter\_63, Sisko\_61, Sour\_63, Yago84\_60,

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 7:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnClar\_59 (DR), Axumite\_63 (DR), BiggityBass\_61 (DR), CharlottesWeb\_59 (DR), Fresco\_63 (DR), Ligma\_63 (DR),

LittleMunchkin\_64 (DR), Mariokart\_59 (DR), Shatter\_63 (DR), Sisko\_61 (DR), Sour\_63 (DR), Yago84\_60 (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.

### Gene Information:

Gene: AnClar\_59 Start: 51973, Stop: 52494, Start Num: 7

Candidate Starts for AnClar\_59:

(3, 51697), (Start: 7 @51973 has 9 MA's), (16, 52081), (17, 52090), (18, 52099), (22, 52126), (24, 52141), (25, 52144), (27, 52186), (32, 52219), (41, 52342), (42, 52351), (46, 52384), (50, 52435), (52, 52471),

Gene: Axumite\_63 Start: 50823, Stop: 51332, Start Num: 7

Candidate Starts for Axumite\_63:

(4, 50556), (6, 50700), (Start: 7 @50823 has 9 MA's), (10, 50862), (11, 50874), (17, 50934), (19, 50946), (20, 50952), (21, 50967), (22, 50970), (25, 50988), (28, 51036), (30, 51057), (33, 51069), (38, 51150), (41, 51180), (48, 51249), (49, 51264), (51, 51306), (53, 51318),

Gene: BiggityBass\_61 Start: 52529, Stop: 53050, Start Num: 7

Candidate Starts for BiggityBass\_61:

(3, 52241), (Start: 7 @52529 has 9 MA's), (17, 52646), (22, 52682), (24, 52697), (25, 52700), (27, 52742), (32, 52775), (41, 52898), (42, 52907), (45, 52928), (46, 52940), (50, 52991), (52, 53027),

Gene: CharlottesWeb\_59 Start: 49407, Stop: 49913, Start Num: 7

Candidate Starts for CharlottesWeb\_59:

(1, 49092), (2, 49104), (3, 49131), (Start: 7 @49407 has 9 MA's), (8, 49419), (10, 49446), (17, 49515), (21, 49548), (22, 49551), (28, 49617), (29, 49632), (33, 49650), (35, 49683), (42, 49770), (43, 49773), (44, 49779), (49, 49845), (50, 49854), (53, 49899),

Gene: Fresco\_63 Start: 50823, Stop: 51332, Start Num: 7

Candidate Starts for Fresco\_63:

(4, 50556), (6, 50700), (Start: 7 @50823 has 9 MA's), (10, 50862), (11, 50874), (17, 50934), (19, 50946), (20, 50952), (21, 50967), (22, 50970), (25, 50988), (28, 51036), (30, 51057), (33, 51069), (35, 51102), (42, 51189), (43, 51192), (44, 51198), (45, 51210), (49, 51264), (50, 51273), (53, 51318),

Gene: Ligma\_63 Start: 50823, Stop: 51332, Start Num: 7

Candidate Starts for Ligma\_63:

(4, 50556), (6, 50700), (Start: 7 @50823 has 9 MA's), (10, 50862), (11, 50874), (17, 50934), (19, 50946), (20, 50952), (21, 50967), (22, 50970), (25, 50988), (28, 51036), (30, 51057), (33, 51069), (38, 51150), (41, 51180), (48, 51249), (49, 51264), (51, 51306), (53, 51318),

Gene: LittleMunchkin\_64 Start: 53578, Stop: 54135, Start Num: 7

Candidate Starts for LittleMunchkin\_64:

(Start: 7 @53578 has 9 MA's), (9, 53617), (13, 53659), (17, 53716), (19, 53728), (22, 53752), (25, 53770), (31, 53842), (37, 53899), (40, 53950), (44, 53983), (47, 54010), (53, 54103),

Gene: Mariokart\_59 Start: 49692, Stop: 50198, Start Num: 7

Candidate Starts for Mariokart\_59:

(1, 49377), (2, 49389), (3, 49416), (6, 49572), (Start: 7 @49692 has 9 MA's), (8, 49704), (10, 49731), (17, 49800), (21, 49833), (22, 49836), (26, 49863), (28, 49902), (29, 49917), (33, 49935), (35, 49968), (42, 50055), (43, 50058), (44, 50064), (45, 50076), (49, 50130), (50, 50139), (53, 50184),

Gene: Shatter\_63 Start: 50823, Stop: 51332, Start Num: 7

Candidate Starts for Shatter\_63:

(4, 50556), (6, 50700), (Start: 7 @50823 has 9 MA's), (10, 50862), (11, 50874), (17, 50934), (19, 50946), (20, 50952), (21, 50967), (22, 50970), (25, 50988), (28, 51036), (30, 51057), (33, 51069), (38, 51150), (41, 51180), (48, 51249), (49, 51264), (51, 51306), (53, 51318),

Gene: Sisko\_61 Start: 51041, Stop: 51562, Start Num: 7

Candidate Starts for Sisko\_61:

(3, 50765), (5, 50840), (Start: 7 @51041 has 9 MA's), (16, 51149), (17, 51158), (18, 51167), (22, 51194), (24, 51209), (25, 51212), (27, 51254), (32, 51287), (41, 51410), (42, 51419), (46, 51452), (50, 51503), (52, 51539),

Gene: Sour\_63 Start: 53270, Stop: 53794, Start Num: 7

Candidate Starts for Sour\_63:

(Start: 7 @53270 has 9 MA's), (12, 53333), (14, 53348), (15, 53363), (18, 53402), (21, 53426), (22, 53429), (23, 53432), (29, 53510), (30, 53516), (33, 53525), (34, 53555), (36, 53564), (39, 53621), (42, 53648), (48, 53708), (50, 53732),

Gene: Yago84\_60 Start: 50526, Stop: 51047, Start Num: 7

Candidate Starts for Yago84\_60:

(3, 50250), (5, 50325), (Start: 7 @50526 has 9 MA's), (16, 50634), (17, 50643), (18, 50652), (22, 50679), (24, 50694), (25, 50697), (27, 50739), (32, 50772), (41, 50895), (42, 50904), (46, 50937), (50, 50988), (52, 51024),