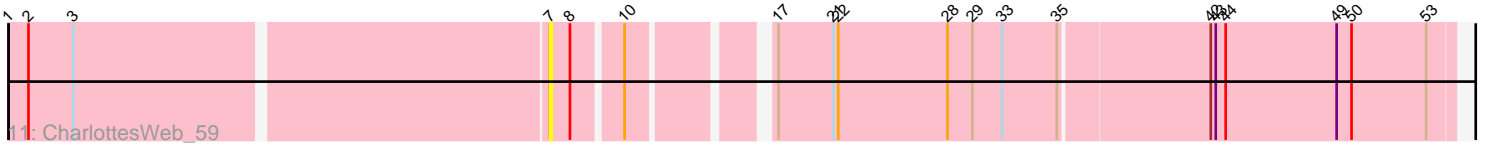
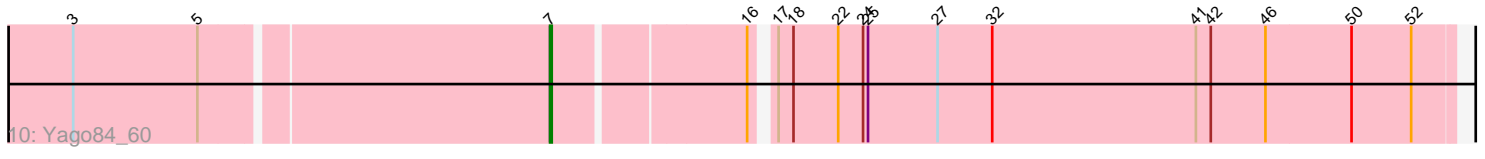
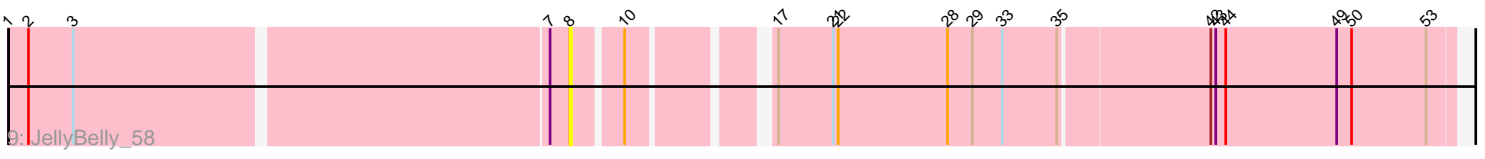
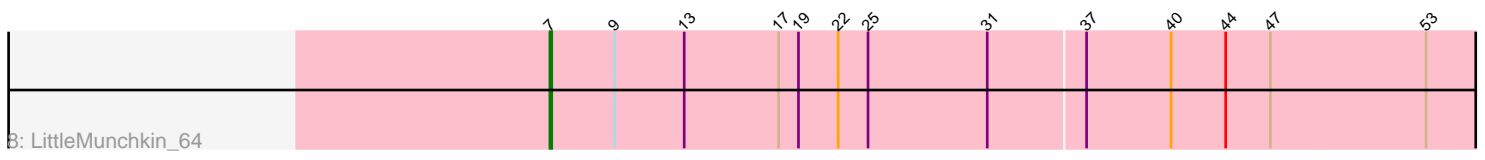
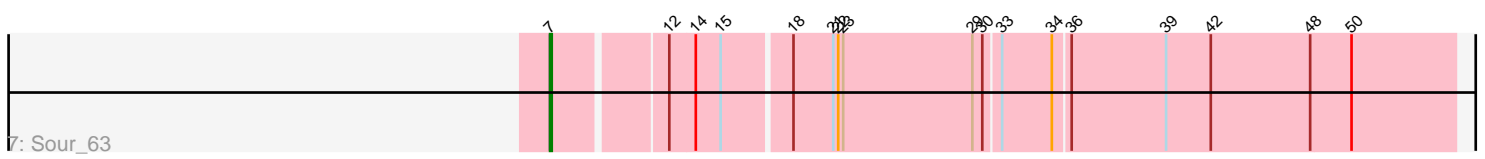
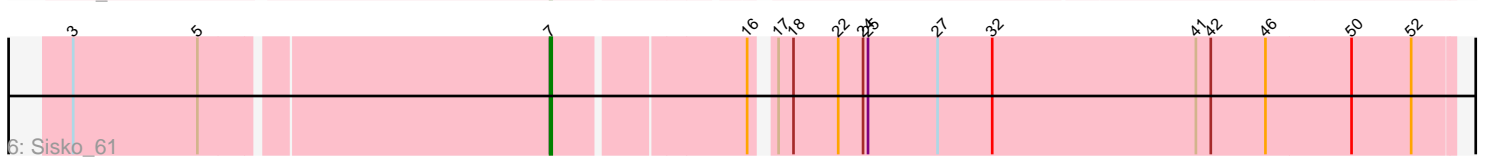
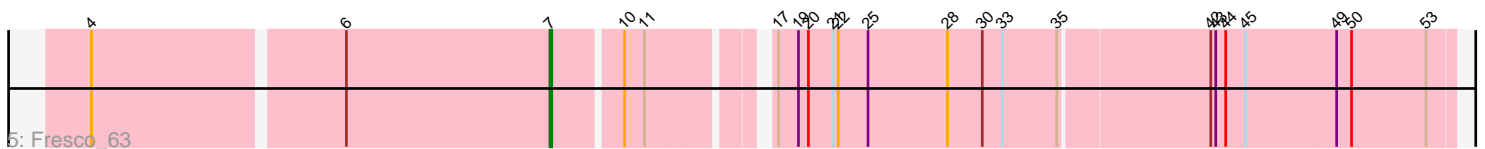
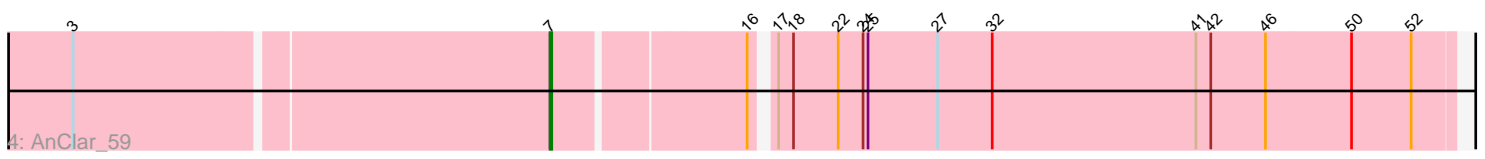
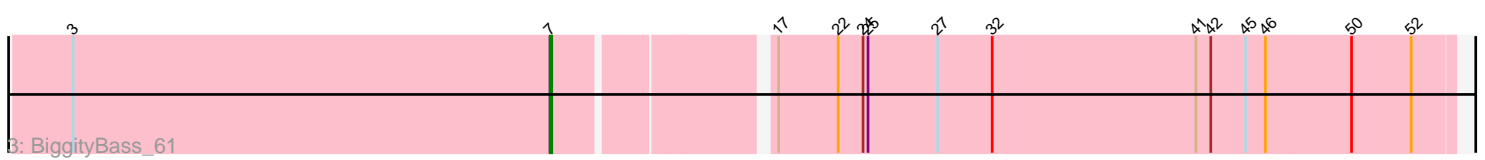
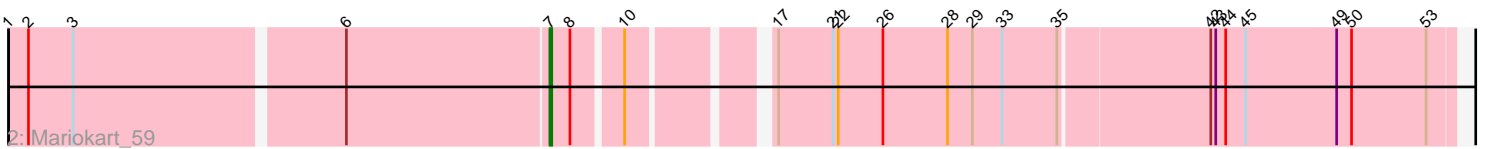
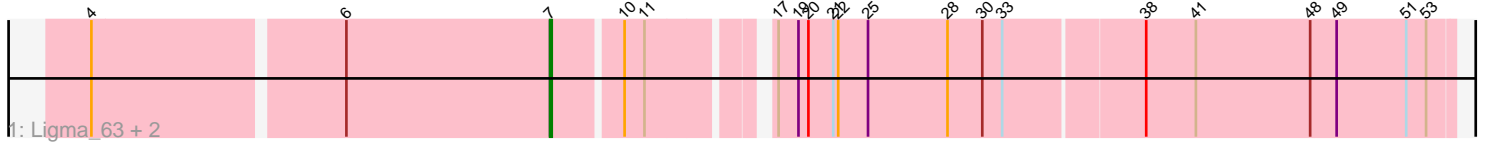


Pham 303788



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 303788 Report

This analysis was run 06/12/26 on database version 650.

Pham number 303788 has 13 members, 2 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 : JellyBelly\_58
- Track 10 : Yago84\_60
- Track 11 : 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 11 of the 11 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:

- JellyBelly\_58,

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

- 

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

Start 7:

- Found in 13 of 13 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 92.3% 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),

Start 8:

- Found in 3 of 13 ( 23.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: JellyBelly\_58 (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 11 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 11 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 11 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 11 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 11 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 11 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: JellyBelly\_58 Start: 49416, Stop: 49910, Start Num: 8

Candidate Starts for JellyBelly\_58:

(1, 49089), (2, 49101), (3, 49128), (Start: 7 @49404 has 11 MA's), (8, 49416), (10, 49443), (17, 49512), (21, 49545), (22, 49548), (28, 49614), (29, 49629), (33, 49647), (35, 49680), (42, 49767), (43, 49770), (44, 49776), (49, 49842), (50, 49851), (53, 49896),

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

Candidate Starts for Ligma\_63:

(4, 50556), (6, 50700), (Start: 7 @50823 has 11 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 11 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 11 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 11 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 11 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 11 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 11 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),