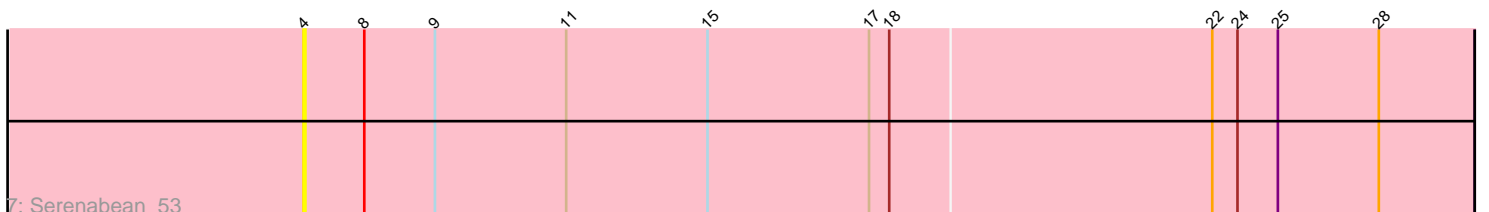
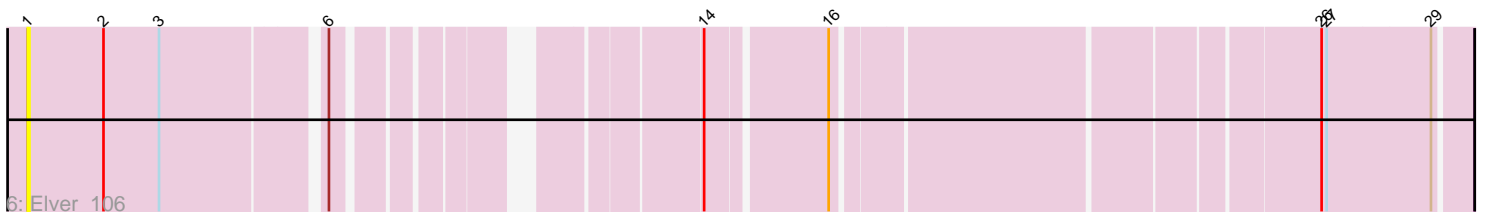
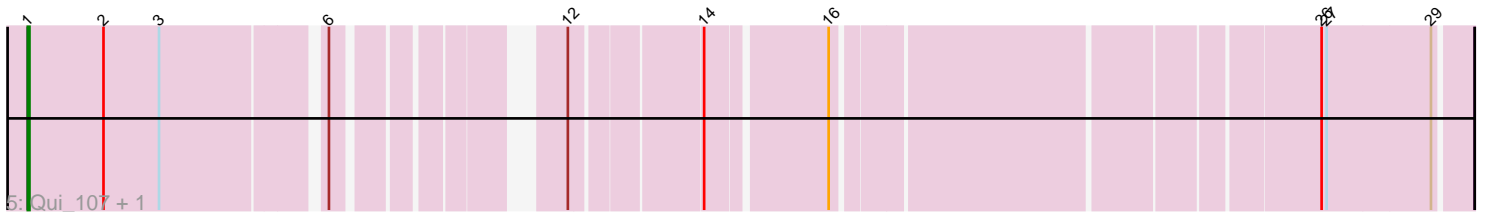
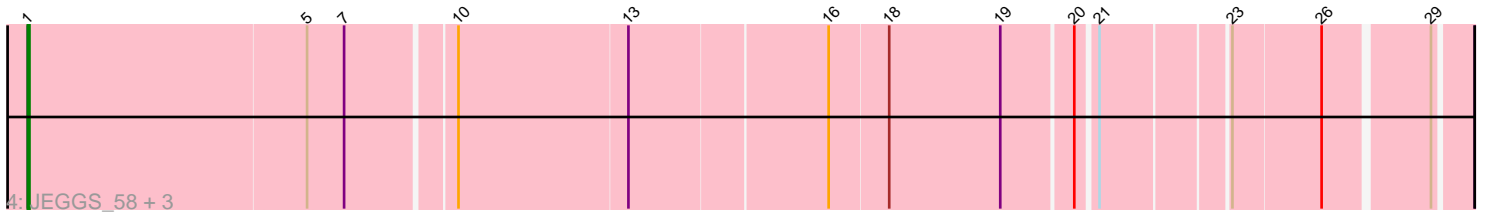
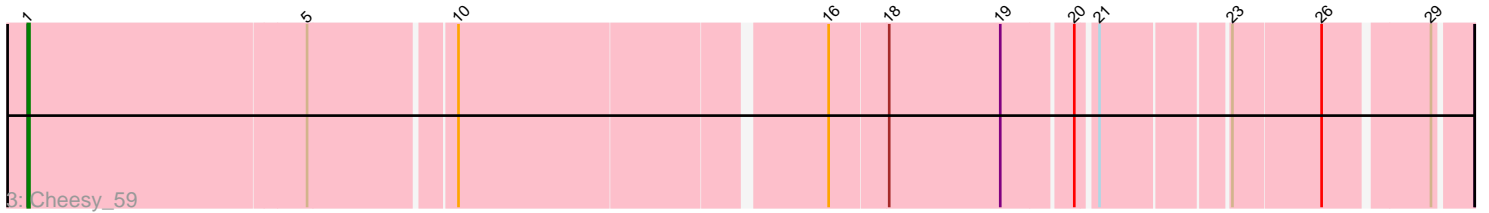
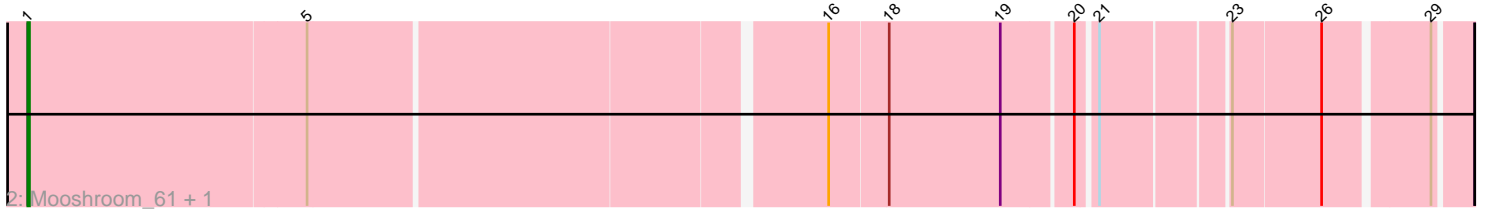


Pham 171817



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 171817 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171817 has 18 members, 3 are drafts.

Phages represented in each track:

- Track 1 : NapoleonB\_59, Hankly\_58, GoCrazy\_58, Dynamite\_59, Benllo\_60, Circum\_61, KeaneyLin\_58
- Track 2 : Mooshroom\_61, Kardesai\_60
- Track 3 : Cheesy\_59
- Track 4 : JEGGS\_58, BenitoAntonio\_59, Heisenberger\_58, Mudcat\_56
- Track 5 : Qui\_107, Paella\_107
- Track 6 : Elver\_106
- Track 7 : Serenabean\_53

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

The start number called the most often in the published annotations is 1, it was called in 15 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BenitoAntonio\_59, Benllo\_60, Cheesy\_59, Circum\_61, Dynamite\_59, Elver\_106, GoCrazy\_58, Hankly\_58, Heisenberger\_58, JEGGS\_58, Kardesai\_60, KeaneyLin\_58, Mooshroom\_61, Mudcat\_56, NapoleonB\_59, Paella\_107, Qui\_107,

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

- 

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

- Serenabean\_53,

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

Start 1:

- Found in 17 of 18 ( 94.4% ) of genes in pham
- Manual Annotations of this start: 15 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BenitoAntonio\_59 (AM), Benllo\_60 (AM), Cheesy\_59 (AM), Circum\_61 (AM), Dynamite\_59 (AM), Elver\_106 (FK), GoCrazy\_58 (AM), Hankly\_58 (AM), Heisenberger\_58 (AM), JEGGS\_58 (AM),

Kardesai\_60 (AM), KeaneyLin\_58 (AM), Mooshroom\_61 (AM), Mudcat\_56 (AM), NapoleonB\_59 (AM), Paella\_107 (FK), Qui\_107 (FK),

Start 4:

- Found in 1 of 18 ( 5.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Serenabean\_53 (HA),

### **Summary by clusters:**

There are 3 clusters represented in this pham: FK, HA, AM,

Info for manual annotations of cluster AM:

- Start number 1 was manually annotated 13 times for cluster AM.

Info for manual annotations of cluster FK:

- Start number 1 was manually annotated 2 times for cluster FK.

### **Gene Information:**

Gene: BenitoAntonio\_59 Start: 35510, Stop: 36310, Start Num: 1

Candidate Starts for BenitoAntonio\_59:

(Start: 1 @35510 has 15 MA's), (5, 35672), (7, 35693), (10, 35753), (13, 35852), (16, 35966), (18, 35999), (19, 36065), (20, 36104), (21, 36113), (23, 36182), (26, 36233), (29, 36290),

Gene: Benllo\_60 Start: 36188, Stop: 36988, Start Num: 1

Candidate Starts for Benllo\_60:

(Start: 1 @36188 has 15 MA's), (5, 36350), (7, 36371), (10, 36431), (13, 36530), (18, 36677), (19, 36743), (21, 36791), (23, 36860), (26, 36911), (29, 36968),

Gene: Cheesy\_59 Start: 35695, Stop: 36489, Start Num: 1

Candidate Starts for Cheesy\_59:

(Start: 1 @35695 has 15 MA's), (5, 35857), (10, 35938), (16, 36145), (18, 36178), (19, 36244), (20, 36283), (21, 36292), (23, 36361), (26, 36412), (29, 36469),

Gene: Circum\_61 Start: 36379, Stop: 37179, Start Num: 1

Candidate Starts for Circum\_61:

(Start: 1 @36379 has 15 MA's), (5, 36541), (7, 36562), (10, 36622), (13, 36721), (18, 36868), (19, 36934), (21, 36982), (23, 37051), (26, 37102), (29, 37159),

Gene: Dynamite\_59 Start: 35903, Stop: 36703, Start Num: 1

Candidate Starts for Dynamite\_59:

(Start: 1 @35903 has 15 MA's), (5, 36065), (7, 36086), (10, 36146), (13, 36245), (18, 36392), (19, 36458), (21, 36506), (23, 36575), (26, 36626), (29, 36683),

Gene: Elver\_106 Start: 57707, Stop: 58456, Start Num: 1

Candidate Starts for Elver\_106:

(Start: 1 @57707 has 15 MA's), (2, 57752), (3, 57785), (6, 57872), (14, 58043), (16, 58109), (26, 58373), (27, 58376), (29, 58436),

Gene: GoCrazy\_58 Start: 35844, Stop: 36644, Start Num: 1

Candidate Starts for GoCrazy\_58:

(Start: 1 @35844 has 15 MA's), (5, 36006), (7, 36027), (10, 36087), (13, 36186), (18, 36333), (19, 36399), (21, 36447), (23, 36516), (26, 36567), (29, 36624),

Gene: Hankly\_58 Start: 35118, Stop: 35918, Start Num: 1

Candidate Starts for Hankly\_58:

(Start: 1 @35118 has 15 MA's), (5, 35280), (7, 35301), (10, 35361), (13, 35460), (18, 35607), (19, 35673), (21, 35721), (23, 35790), (26, 35841), (29, 35898),

Gene: Heisenberger\_58 Start: 35412, Stop: 36188, Start Num: 1

Candidate Starts for Heisenberger\_58:

(Start: 1 @35412 has 15 MA's), (5, 35574), (7, 35595), (10, 35655), (13, 35730), (16, 35844), (18, 35877), (19, 35943), (20, 35982), (21, 35991), (23, 36060), (26, 36111), (29, 36168),

Gene: JEGGS\_58 Start: 35467, Stop: 36267, Start Num: 1

Candidate Starts for JEGGS\_58:

(Start: 1 @35467 has 15 MA's), (5, 35629), (7, 35650), (10, 35710), (13, 35809), (16, 35923), (18, 35956), (19, 36022), (20, 36061), (21, 36070), (23, 36139), (26, 36190), (29, 36247),

Gene: Kardesai\_60 Start: 36088, Stop: 36885, Start Num: 1

Candidate Starts for Kardesai\_60:

(Start: 1 @36088 has 15 MA's), (5, 36250), (16, 36541), (18, 36574), (19, 36640), (20, 36679), (21, 36688), (23, 36757), (26, 36808), (29, 36865),

Gene: KeaneyLin\_58 Start: 35844, Stop: 36644, Start Num: 1

Candidate Starts for KeaneyLin\_58:

(Start: 1 @35844 has 15 MA's), (5, 36006), (7, 36027), (10, 36087), (13, 36186), (18, 36333), (19, 36399), (21, 36447), (23, 36516), (26, 36567), (29, 36624),

Gene: Mooshroom\_61 Start: 36088, Stop: 36885, Start Num: 1

Candidate Starts for Mooshroom\_61:

(Start: 1 @36088 has 15 MA's), (5, 36250), (16, 36541), (18, 36574), (19, 36640), (20, 36679), (21, 36688), (23, 36757), (26, 36808), (29, 36865),

Gene: Mudcat\_56 Start: 36825, Stop: 37625, Start Num: 1

Candidate Starts for Mudcat\_56:

(Start: 1 @36825 has 15 MA's), (5, 36987), (7, 37008), (10, 37068), (13, 37167), (16, 37281), (18, 37314), (19, 37380), (20, 37419), (21, 37428), (23, 37497), (26, 37548), (29, 37605),

Gene: NapoleonB\_59 Start: 35903, Stop: 36703, Start Num: 1

Candidate Starts for NapoleonB\_59:

(Start: 1 @35903 has 15 MA's), (5, 36065), (7, 36086), (10, 36146), (13, 36245), (18, 36392), (19, 36458), (21, 36506), (23, 36575), (26, 36626), (29, 36683),

Gene: Paella\_107 Start: 58297, Stop: 59046, Start Num: 1

Candidate Starts for Paella\_107:

(Start: 1 @58297 has 15 MA's), (2, 58342), (3, 58375), (6, 58462), (12, 58564), (14, 58633), (16, 58699), (26, 58963), (27, 58966), (29, 59026),

Gene: Qui\_107 Start: 58297, Stop: 59046, Start Num: 1

Candidate Starts for Qui\_107:

(Start: 1 @58297 has 15 MA's), (2, 58342), (3, 58375), (6, 58462), (12, 58564), (14, 58633), (16, 58699), (26, 58963), (27, 58966), (29, 59026),

Gene: Serenabean\_53 Start: 34832, Stop: 35524, Start Num: 4

Candidate Starts for Serenabean\_53:

(4, 34832), (8, 34868), (9, 34910), (11, 34988), (15, 35072), (17, 35168), (18, 35180), (22, 35369), (24, 35384), (25, 35408), (28, 35468),