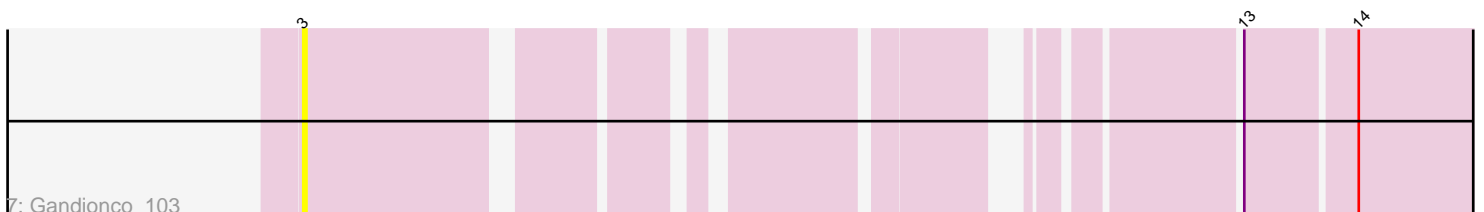
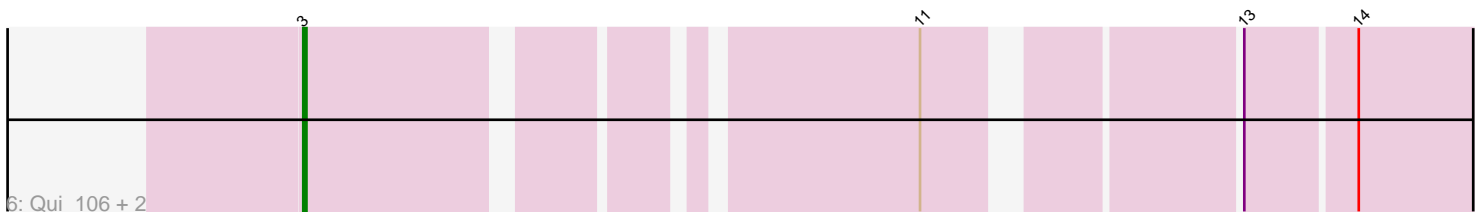
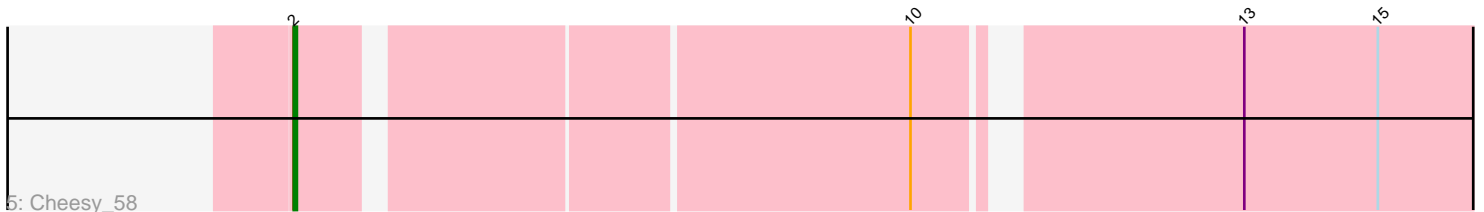
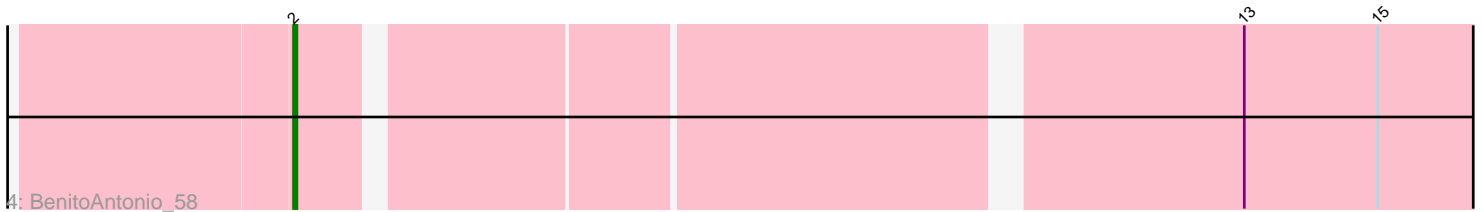
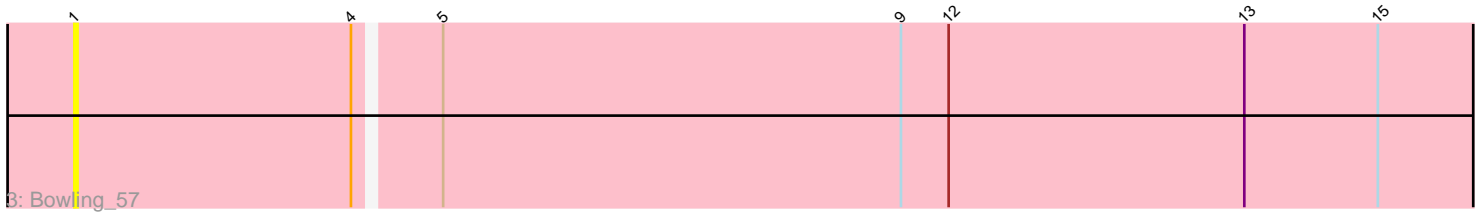
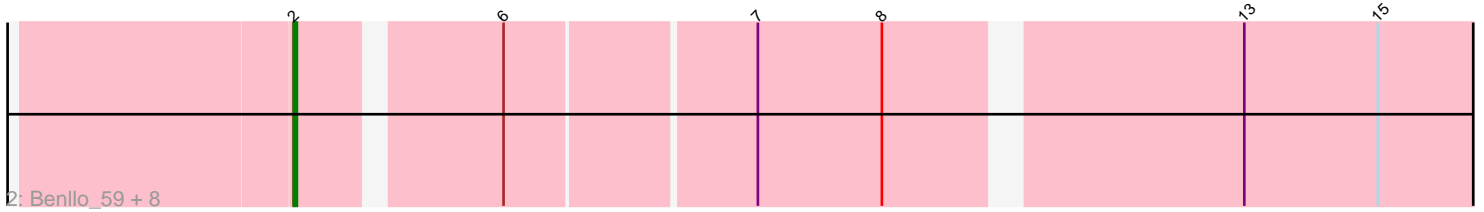
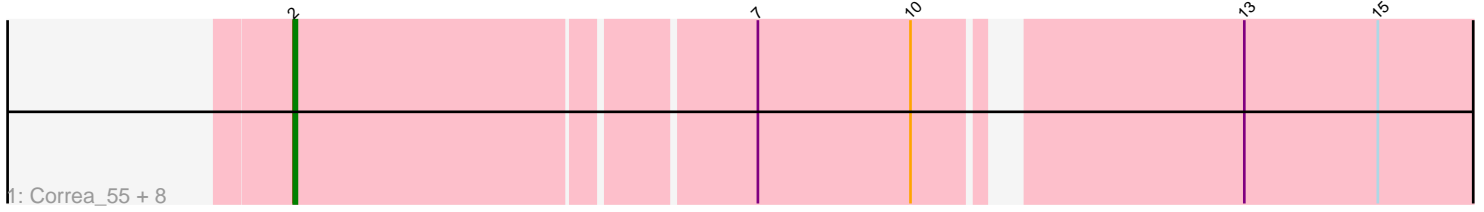


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 216492 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216492 has 25 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Correa\_55, Tribby\_60, JEGGS\_57, Heisenberger\_57, Mudcat\_55, Xenomorph\_55, Elsa\_58, Arcadia\_58, Nason\_58
- Track 2 : Benllo\_59, Hankly\_57, Dynamite\_58, KeaneyLin\_57, Mooshroom\_60, NapoleonB\_58, GoCrazy\_57, Kardesai\_59, Circum\_60
- Track 3 : Bowling\_57
- Track 4 : BenitoAntonio\_58
- Track 5 : Cheesy\_58
- Track 6 : Qui\_106, Elver\_105, Paella\_106
- Track 7 : Gandionco\_103

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

The start number called the most often in the published annotations is 2, it was called in 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_58, BenitoAntonio\_58, Benllo\_59, Cheesy\_58, Circum\_60, Correa\_55, Dynamite\_58, Elsa\_58, GoCrazy\_57, Hankly\_57, Heisenberger\_57, JEGGS\_57, Kardesai\_59, KeaneyLin\_57, Mooshroom\_60, Mudcat\_55, NapoleonB\_58, Nason\_58, Tribby\_60, Xenomorph\_55,

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

- 

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

- Bowling\_57, Elver\_105, Gandionco\_103, Paella\_106, Qui\_106,

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

Start 1:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bowling\_57 (AM),

Start 2:

- Found in 20 of 25 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 19 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia\_58 (AM), BenitoAntonio\_58 (AM), Benllo\_59 (AM), Cheesy\_58 (AM), Circum\_60 (AM), Correa\_55 (AM), Dynamite\_58 (AM), Elsa\_58 (AM), GoCrazy\_57 (AM), Hankly\_57 (AM), Heisenberger\_57 (AM), JEGGS\_57 (AM), Kardesai\_59 (AM), KeaneyLin\_57 (AM), Mooshroom\_60 (AM), Mudcat\_55 (AM), NapoleonB\_58 (AM), Nason\_58 (AM), Tribby\_60 (AM), Xenomorph\_55 (AM),

Start 3:

- Found in 4 of 25 ( 16.0% ) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver\_105 (FK), Gandionco\_103 (FK), Paella\_106 (FK), Qui\_106 (FK),

**Summary by clusters:**

There are 2 clusters represented in this pham: FK, AM,

Info for manual annotations of cluster AM:

- Start number 2 was manually annotated 19 times for cluster AM.

Info for manual annotations of cluster FK:

- Start number 3 was manually annotated 2 times for cluster FK.

**Gene Information:**

Gene: Arcadia\_58 Start: 35630, Stop: 35989, Start Num: 2

Candidate Starts for Arcadia\_58:

(Start: 2 @35630 has 19 MA's), (7, 35768), (10, 35816), (13, 35906), (15, 35948),

Gene: BenitoAntonio\_58 Start: 35157, Stop: 35513, Start Num: 2

Candidate Starts for BenitoAntonio\_58:

(Start: 2 @35157 has 19 MA's), (13, 35430), (15, 35472),

Gene: Benllo\_59 Start: 35835, Stop: 36191, Start Num: 2

Candidate Starts for Benllo\_59:

(Start: 2 @35835 has 19 MA's), (6, 35892), (7, 35967), (8, 36006), (13, 36108), (15, 36150),

Gene: Bowling\_57 Start: 35383, Stop: 35829, Start Num: 1

Candidate Starts for Bowling\_57:

(1, 35383), (4, 35470), (5, 35494), (9, 35638), (12, 35653), (13, 35746), (15, 35788),

Gene: Cheesy\_58 Start: 35345, Stop: 35698, Start Num: 2

Candidate Starts for Cheesy\_58:

(Start: 2 @35345 has 19 MA's), (10, 35525), (13, 35615), (15, 35657),

Gene: Circum\_60 Start: 36026, Stop: 36382, Start Num: 2  
Candidate Starts for Circum\_60:  
(Start: 2 @36026 has 19 MA's), (6, 36083), (7, 36158), (8, 36197), (13, 36299), (15, 36341),

Gene: Correa\_55 Start: 34497, Stop: 34856, Start Num: 2  
Candidate Starts for Correa\_55:  
(Start: 2 @34497 has 19 MA's), (7, 34635), (10, 34683), (13, 34773), (15, 34815),

Gene: Dynamite\_58 Start: 35550, Stop: 35906, Start Num: 2  
Candidate Starts for Dynamite\_58:  
(Start: 2 @35550 has 19 MA's), (6, 35607), (7, 35682), (8, 35721), (13, 35823), (15, 35865),

Gene: Elsa\_58 Start: 35630, Stop: 35989, Start Num: 2  
Candidate Starts for Elsa\_58:  
(Start: 2 @35630 has 19 MA's), (7, 35768), (10, 35816), (13, 35906), (15, 35948),

Gene: Elver\_105 Start: 57350, Stop: 57682, Start Num: 3  
Candidate Starts for Elver\_105:  
(Start: 3 @57350 has 2 MA's), (11, 57518), (13, 57602), (14, 57635),

Gene: Gandionco\_103 Start: 56176, Stop: 56496, Start Num: 3  
Candidate Starts for Gandionco\_103:  
(Start: 3 @56176 has 2 MA's), (13, 56416), (14, 56449),

Gene: GoCrazy\_57 Start: 35491, Stop: 35847, Start Num: 2  
Candidate Starts for GoCrazy\_57:  
(Start: 2 @35491 has 19 MA's), (6, 35548), (7, 35623), (8, 35662), (13, 35764), (15, 35806),

Gene: Hankly\_57 Start: 34765, Stop: 35121, Start Num: 2  
Candidate Starts for Hankly\_57:  
(Start: 2 @34765 has 19 MA's), (6, 34822), (7, 34897), (8, 34936), (13, 35038), (15, 35080),

Gene: Heisenberger\_57 Start: 35053, Stop: 35415, Start Num: 2  
Candidate Starts for Heisenberger\_57:  
(Start: 2 @35053 has 19 MA's), (7, 35191), (10, 35239), (13, 35332), (15, 35374),

Gene: JEGGS\_57 Start: 35108, Stop: 35470, Start Num: 2  
Candidate Starts for JEGGS\_57:  
(Start: 2 @35108 has 19 MA's), (7, 35246), (10, 35294), (13, 35387), (15, 35429),

Gene: Kardesai\_59 Start: 35735, Stop: 36091, Start Num: 2  
Candidate Starts for Kardesai\_59:  
(Start: 2 @35735 has 19 MA's), (6, 35792), (7, 35867), (8, 35906), (13, 36008), (15, 36050),

Gene: KeaneyLin\_57 Start: 35491, Stop: 35847, Start Num: 2  
Candidate Starts for KeaneyLin\_57:  
(Start: 2 @35491 has 19 MA's), (6, 35548), (7, 35623), (8, 35662), (13, 35764), (15, 35806),

Gene: Mooshroom\_60 Start: 35735, Stop: 36091, Start Num: 2  
Candidate Starts for Mooshroom\_60:  
(Start: 2 @35735 has 19 MA's), (6, 35792), (7, 35867), (8, 35906), (13, 36008), (15, 36050),

Gene: Mudcat\_55 Start: 36466, Stop: 36828, Start Num: 2

Candidate Starts for Mudcat\_55:

(Start: 2 @36466 has 19 MA's), (7, 36604), (10, 36652), (13, 36745), (15, 36787),

Gene: NapoleonB\_58 Start: 35550, Stop: 35906, Start Num: 2

Candidate Starts for NapoleonB\_58:

(Start: 2 @35550 has 19 MA's), (6, 35607), (7, 35682), (8, 35721), (13, 35823), (15, 35865),

Gene: Nason\_58 Start: 35630, Stop: 35989, Start Num: 2

Candidate Starts for Nason\_58:

(Start: 2 @35630 has 19 MA's), (7, 35768), (10, 35816), (13, 35906), (15, 35948),

Gene: Paella\_106 Start: 57940, Stop: 58272, Start Num: 3

Candidate Starts for Paella\_106:

(Start: 3 @57940 has 2 MA's), (11, 58108), (13, 58192), (14, 58225),

Gene: Qui\_106 Start: 57940, Stop: 58272, Start Num: 3

Candidate Starts for Qui\_106:

(Start: 3 @57940 has 2 MA's), (11, 58108), (13, 58192), (14, 58225),

Gene: Tribby\_60 Start: 35883, Stop: 36242, Start Num: 2

Candidate Starts for Tribby\_60:

(Start: 2 @35883 has 19 MA's), (7, 36021), (10, 36069), (13, 36159), (15, 36201),

Gene: Xenomorph\_55 Start: 35301, Stop: 35660, Start Num: 2

Candidate Starts for Xenomorph\_55:

(Start: 2 @35301 has 19 MA's), (7, 35439), (10, 35487), (13, 35577), (15, 35619),