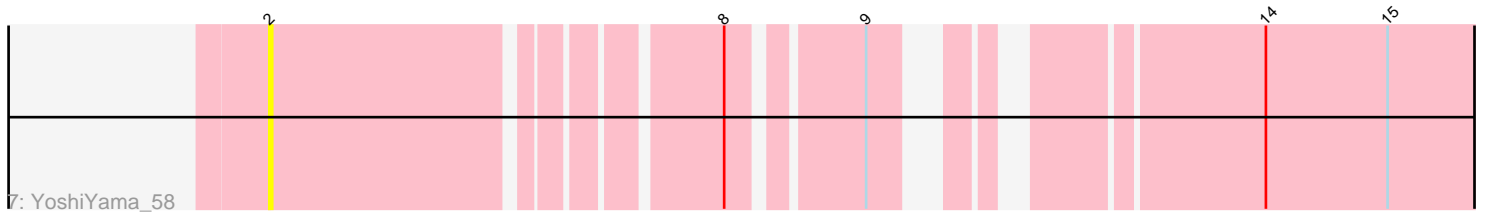
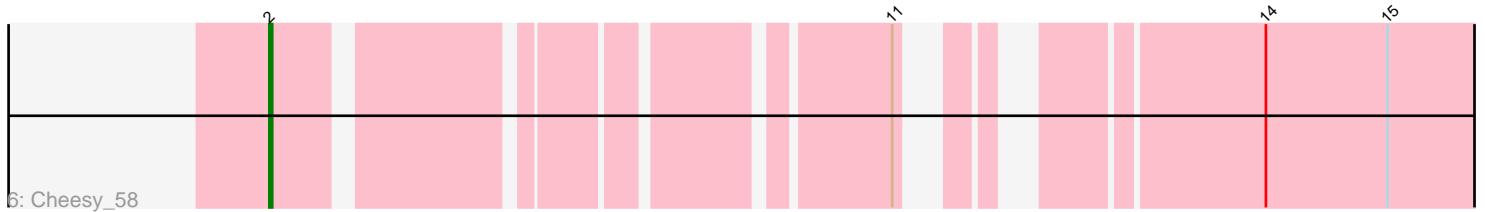
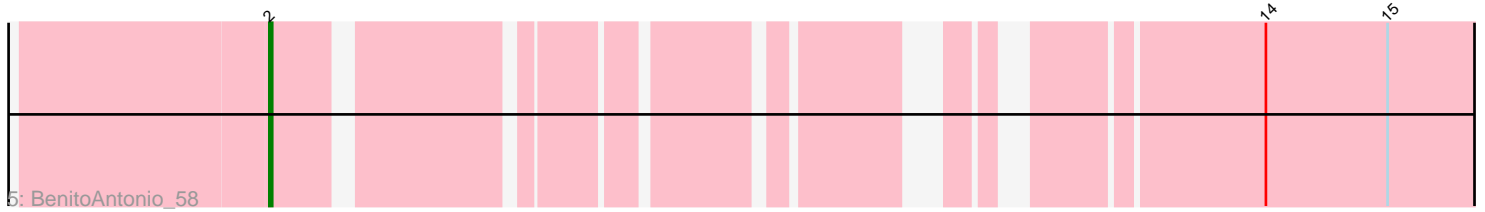
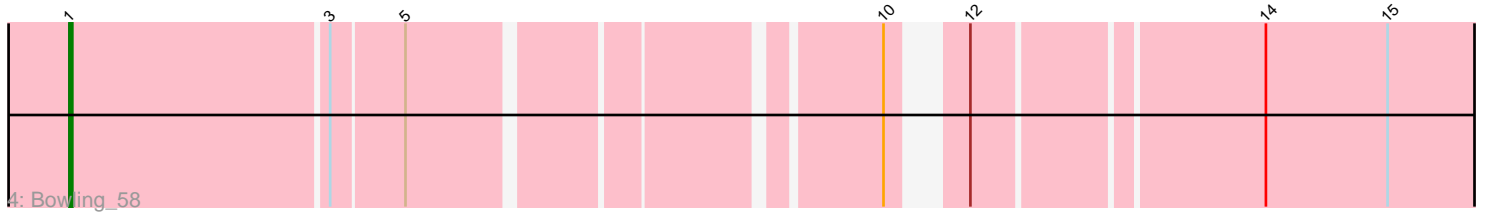
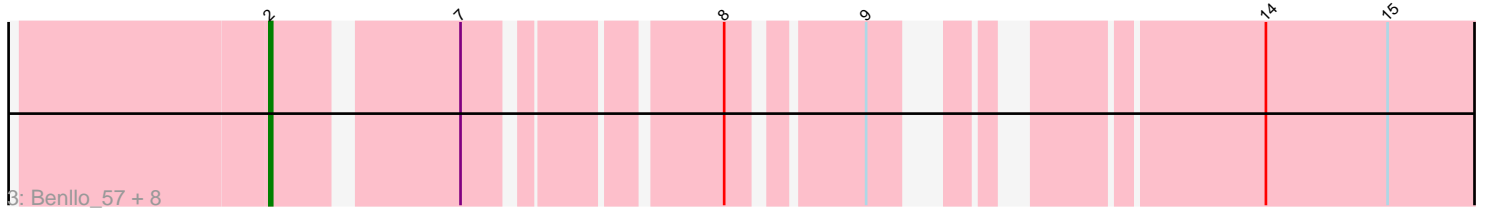
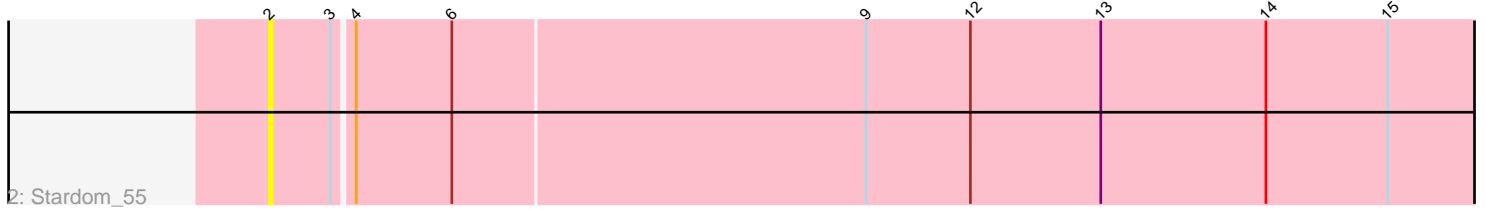
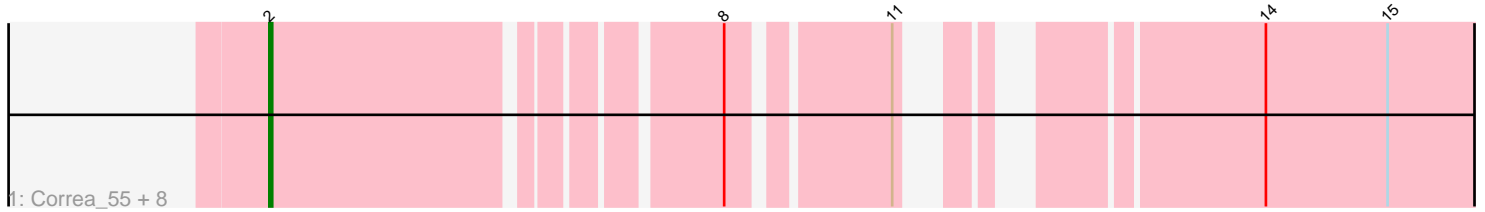


# Pham 293046



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 293046 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293046 has 23 members, 2 are drafts.

Phages represented in each track:

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

### ***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 20 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia\_58, BenitoAntonio\_58, Benllo\_57, 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, Stardom\_55, Tribby\_60, Xenomorph\_55, YoshiYama\_58,

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

- 

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

- Bowling\_58,

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

Start 1:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bowling\_58 (AM),

Start 2:

- Found in 22 of 23 ( 95.7% ) of genes in pham
- Manual Annotations of this start: 20 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia\_58 (AM), BenitoAntonio\_58 (AM), Benllo\_57 (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), Stardom\_55 (AM), Tribby\_60 (AM), Xenomorph\_55 (AM), YoshiYama\_58 (AM),

**Summary by clusters:**

There is one cluster represented in this pham: AM

Info for manual annotations of cluster AM:

- Start number 1 was manually annotated 1 time for cluster AM.
- Start number 2 was manually annotated 20 times for cluster AM.

**Gene Information:**

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

Candidate Starts for Arcadia\_58:

(Start: 2 @35630 has 20 MA's), (8, 35768), (11, 35816), (14, 35906), (15, 35948),

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

Candidate Starts for BenitoAntonio\_58:

(Start: 2 @35157 has 20 MA's), (14, 35430), (15, 35472),

Gene: Benllo\_57 Start: 35835, Stop: 36191, Start Num: 2

Candidate Starts for Benllo\_57:

(Start: 2 @35835 has 20 MA's), (7, 35892), (8, 35967), (9, 36006), (14, 36108), (15, 36150),

Gene: Bowling\_58 Start: 35383, Stop: 35829, Start Num: 1

Candidate Starts for Bowling\_58:

(Start: 1 @35383 has 1 MA's), (3, 35470), (5, 35494), (10, 35638), (12, 35653), (14, 35746), (15, 35788),

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

Candidate Starts for Cheesy\_58:

(Start: 2 @35345 has 20 MA's), (11, 35525), (14, 35615), (15, 35657),

Gene: Circum\_60 Start: 36026, Stop: 36382, Start Num: 2

Candidate Starts for Circum\_60:

(Start: 2 @36026 has 20 MA's), (7, 36083), (8, 36158), (9, 36197), (14, 36299), (15, 36341),

Gene: Correa\_55 Start: 34497, Stop: 34856, Start Num: 2

Candidate Starts for Correa\_55:

(Start: 2 @34497 has 20 MA's), (8, 34635), (11, 34683), (14, 34773), (15, 34815),

Gene: Dynamite\_58 Start: 35550, Stop: 35906, Start Num: 2  
Candidate Starts for Dynamite\_58:  
(Start: 2 @35550 has 20 MA's), (7, 35607), (8, 35682), (9, 35721), (14, 35823), (15, 35865),

Gene: Elsa\_58 Start: 35630, Stop: 35989, Start Num: 2  
Candidate Starts for Elsa\_58:  
(Start: 2 @35630 has 20 MA's), (8, 35768), (11, 35816), (14, 35906), (15, 35948),

Gene: GoCrazy\_57 Start: 35491, Stop: 35847, Start Num: 2  
Candidate Starts for GoCrazy\_57:  
(Start: 2 @35491 has 20 MA's), (7, 35548), (8, 35623), (9, 35662), (14, 35764), (15, 35806),

Gene: Hankly\_57 Start: 34765, Stop: 35121, Start Num: 2  
Candidate Starts for Hankly\_57:  
(Start: 2 @34765 has 20 MA's), (7, 34822), (8, 34897), (9, 34936), (14, 35038), (15, 35080),

Gene: Heisenberger\_57 Start: 35053, Stop: 35415, Start Num: 2  
Candidate Starts for Heisenberger\_57:  
(Start: 2 @35053 has 20 MA's), (8, 35191), (11, 35239), (14, 35332), (15, 35374),

Gene: JEGGS\_57 Start: 35108, Stop: 35470, Start Num: 2  
Candidate Starts for JEGGS\_57:  
(Start: 2 @35108 has 20 MA's), (8, 35246), (11, 35294), (14, 35387), (15, 35429),

Gene: Kardesai\_59 Start: 35735, Stop: 36091, Start Num: 2  
Candidate Starts for Kardesai\_59:  
(Start: 2 @35735 has 20 MA's), (7, 35792), (8, 35867), (9, 35906), (14, 36008), (15, 36050),

Gene: KeaneyLin\_57 Start: 35491, Stop: 35847, Start Num: 2  
Candidate Starts for KeaneyLin\_57:  
(Start: 2 @35491 has 20 MA's), (7, 35548), (8, 35623), (9, 35662), (14, 35764), (15, 35806),

Gene: Mooshroom\_60 Start: 35735, Stop: 36091, Start Num: 2  
Candidate Starts for Mooshroom\_60:  
(Start: 2 @35735 has 20 MA's), (7, 35792), (8, 35867), (9, 35906), (14, 36008), (15, 36050),

Gene: Mudcat\_55 Start: 36466, Stop: 36828, Start Num: 2  
Candidate Starts for Mudcat\_55:  
(Start: 2 @36466 has 20 MA's), (8, 36604), (11, 36652), (14, 36745), (15, 36787),

Gene: NapoleonB\_58 Start: 35550, Stop: 35906, Start Num: 2  
Candidate Starts for NapoleonB\_58:  
(Start: 2 @35550 has 20 MA's), (7, 35607), (8, 35682), (9, 35721), (14, 35823), (15, 35865),

Gene: Nason\_58 Start: 35630, Stop: 35989, Start Num: 2  
Candidate Starts for Nason\_58:  
(Start: 2 @35630 has 20 MA's), (8, 35768), (11, 35816), (14, 35906), (15, 35948),

Gene: Stardom\_55 Start: 34225, Stop: 34647, Start Num: 2  
Candidate Starts for Stardom\_55:  
(Start: 2 @34225 has 20 MA's), (3, 34246), (4, 34252), (6, 34285), (9, 34426), (12, 34462), (13, 34507),  
(14, 34564), (15, 34606),

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

Candidate Starts for Tribby\_60:

(Start: 2 @35883 has 20 MA's), (8, 36021), (11, 36069), (14, 36159), (15, 36201),

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

Candidate Starts for Xenomorph\_55:

(Start: 2 @35301 has 20 MA's), (8, 35439), (11, 35487), (14, 35577), (15, 35619),

Gene: YoshiYama\_58 Start: 35937, Stop: 36299, Start Num: 2

Candidate Starts for YoshiYama\_58:

(Start: 2 @35937 has 20 MA's), (8, 36075), (9, 36114), (14, 36216), (15, 36258),