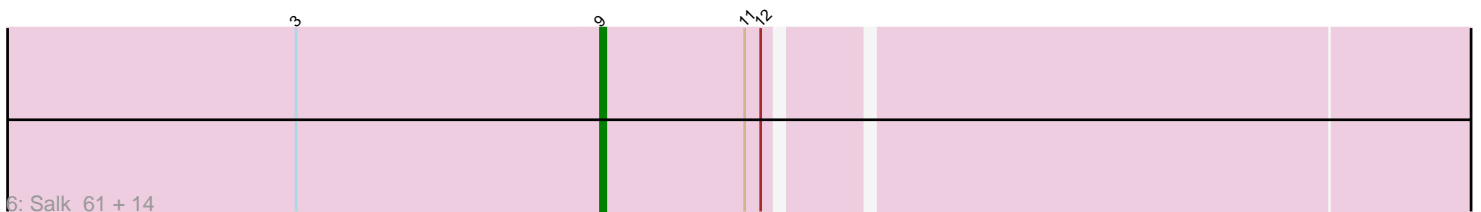
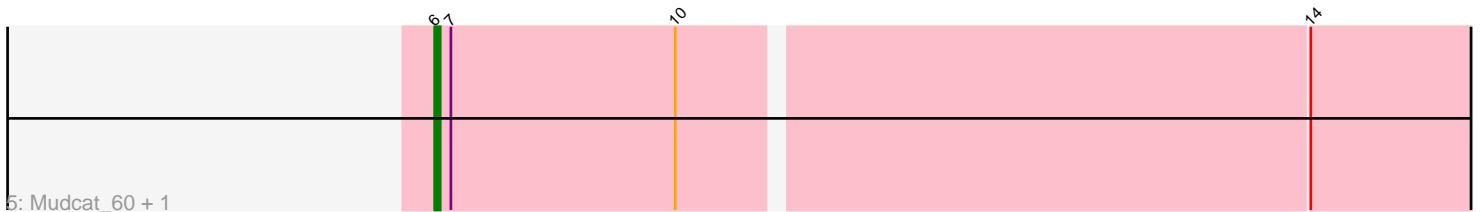
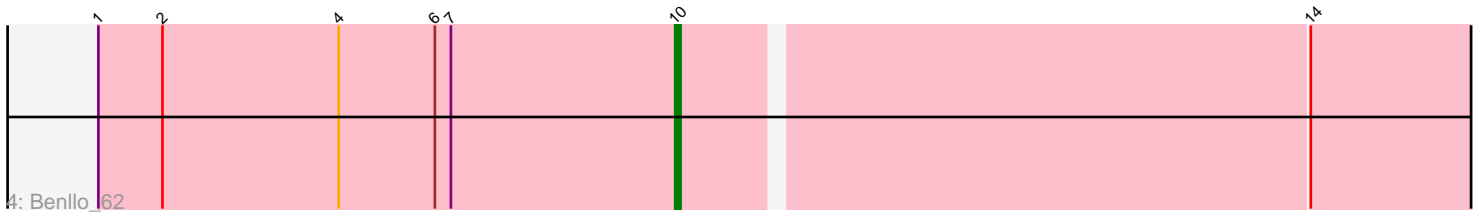
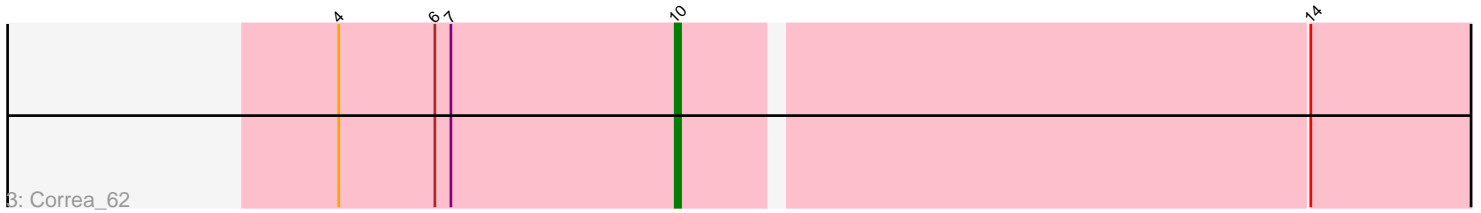
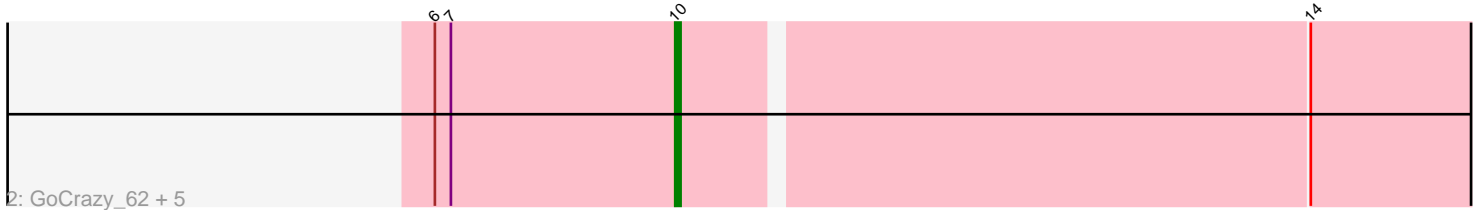
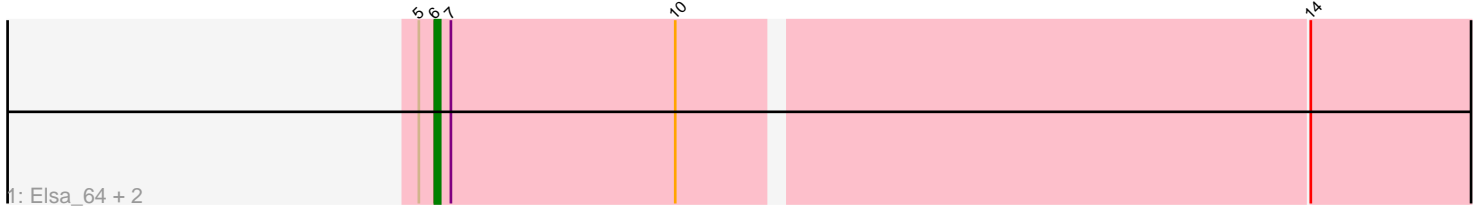


Pham 311895



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 311895 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311895 has 29 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Elsa\_64, Arcadia\_64, Nason\_64
- Track 2 : GoCrazy\_62, YoshiYama\_66, Stardom\_62, JEGGS\_62, KeaneyLin\_61, Heisenberger\_62
- Track 3 : Correa\_62
- Track 4 : Benllo\_62
- Track 5 : Mudcat\_60, Circum\_65
- Track 6 : Salk\_61, Egad\_61, Stayer\_61, Sloopyjoe\_61, Linda\_61, Boog\_60, StarLord\_61, BronxBay\_61, Shiba\_60, Michelle\_61, Jeremy4pt0\_60, ProfFrink\_61, MrAaronian\_61, DoctorPepper\_60, Djungelskog\_60
- Track 7 : Onestar\_59

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

The start number called the most often in the published annotations is 9, it was called in 15 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Boog\_60, BronxBay\_61, Djungelskog\_60, DoctorPepper\_60, Egad\_61, Jeremy4pt0\_60, Linda\_61, Michelle\_61, MrAaronian\_61, Onestar\_59, ProfFrink\_61, Salk\_61, Shiba\_60, Sloopyjoe\_61, StarLord\_61, Stayer\_61,

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

- 

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

- Arcadia\_64, Benllo\_62, Circum\_65, Correa\_62, Elsa\_64, GoCrazy\_62, Heisenberger\_62, JEGGS\_62, KeaneyLin\_61, Mudcat\_60, Nason\_64, Stardom\_62, YoshiYama\_66,

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

Start 6:

- Found in 13 of 29 ( 44.8% ) of genes in pham
- Manual Annotations of this start: 5 of 26

- Called 38.5% of time when present
- Phage (with cluster) where this start called: Arcadia\_64 (AM), Circum\_65 (AM), Elsa\_64 (AM), Mudcat\_60 (AM), Nason\_64 (AM),

Start 9:

- Found in 16 of 29 ( 55.2% ) of genes in pham
- Manual Annotations of this start: 15 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boog\_60 (AW), BronxBay\_61 (AW), Djungelskog\_60 (AW), DoctorPepper\_60 (AW), Egad\_61 (AW), Jeremy4pt0\_60 (AW), Linda\_61 (AW), Michelle\_61 (AW), MrAaronian\_61 (AW), Onestar\_59 (AW), ProfFrink\_61 (AW), Salk\_61 (AW), Shiba\_60 (AW), Sloopyjoe\_61 (AW), StarLord\_61 (AW), Stayer\_61 (AW),

Start 10:

- Found in 13 of 29 ( 44.8% ) of genes in pham
- Manual Annotations of this start: 6 of 26
- Called 61.5% of time when present
- Phage (with cluster) where this start called: Benllo\_62 (AM), Correa\_62 (AM), GoCrazy\_62 (AM), Heisenberger\_62 (AM), JEGGS\_62 (AM), KeaneyLin\_61 (AM), Stardom\_62 (AM), YoshiYama\_66 (AM),

### **Summary by clusters:**

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

Info for manual annotations of cluster AM:

- Start number 6 was manually annotated 5 times for cluster AM.
- Start number 10 was manually annotated 6 times for cluster AM.

Info for manual annotations of cluster AW:

- Start number 9 was manually annotated 15 times for cluster AW.

### **Gene Information:**

Gene: Arcadia\_64 Start: 41646, Stop: 41912, Start Num: 6

Candidate Starts for Arcadia\_64:

(5, 41643), (Start: 6 @41646 has 5 MA's), (7, 41649), (Start: 10 @41691 has 6 MA's), (14, 41805),

Gene: Benllo\_62 Start: 41775, Stop: 41996, Start Num: 10

Candidate Starts for Benllo\_62:

(1, 41667), (2, 41679), (4, 41712), (Start: 6 @41730 has 5 MA's), (7, 41733), (Start: 10 @41775 has 6 MA's), (14, 41889),

Gene: Boog\_60 Start: 40888, Stop: 41121, Start Num: 9

Candidate Starts for Boog\_60:

(3, 40834), (Start: 9 @40888 has 15 MA's), (11, 40915), (12, 40918),

Gene: BronxBay\_61 Start: 41144, Stop: 41377, Start Num: 9

Candidate Starts for BronxBay\_61:

(3, 41090), (Start: 9 @41144 has 15 MA's), (11, 41171), (12, 41174),

Gene: Circum\_65 Start: 41846, Stop: 42112, Start Num: 6

Candidate Starts for Circum\_65:

(Start: 6 @41846 has 5 MA's), (7, 41849), (Start: 10 @41891 has 6 MA's), (14, 42005),

Gene: Correa\_62 Start: 40895, Stop: 41116, Start Num: 10

Candidate Starts for Correa\_62:

(4, 40832), (Start: 6 @40850 has 5 MA's), (7, 40853), (Start: 10 @40895 has 6 MA's), (14, 41009),

Gene: Djungelskog\_60 Start: 41143, Stop: 41376, Start Num: 9

Candidate Starts for Djungelskog\_60:

(3, 41089), (Start: 9 @41143 has 15 MA's), (11, 41170), (12, 41173),

Gene: DoctorPepper\_60 Start: 40848, Stop: 41081, Start Num: 9

Candidate Starts for DoctorPepper\_60:

(3, 40794), (Start: 9 @40848 has 15 MA's), (11, 40875), (12, 40878),

Gene: Egad\_61 Start: 41145, Stop: 41378, Start Num: 9

Candidate Starts for Egad\_61:

(3, 41091), (Start: 9 @41145 has 15 MA's), (11, 41172), (12, 41175),

Gene: Elsa\_64 Start: 41646, Stop: 41912, Start Num: 6

Candidate Starts for Elsa\_64:

(5, 41643), (Start: 6 @41646 has 5 MA's), (7, 41649), (Start: 10 @41691 has 6 MA's), (14, 41805),

Gene: GoCrazy\_62 Start: 41356, Stop: 41577, Start Num: 10

Candidate Starts for GoCrazy\_62:

(Start: 6 @41311 has 5 MA's), (7, 41314), (Start: 10 @41356 has 6 MA's), (14, 41470),

Gene: Heisenberger\_62 Start: 40900, Stop: 41121, Start Num: 10

Candidate Starts for Heisenberger\_62:

(Start: 6 @40855 has 5 MA's), (7, 40858), (Start: 10 @40900 has 6 MA's), (14, 41014),

Gene: JEGGS\_62 Start: 40979, Stop: 41200, Start Num: 10

Candidate Starts for JEGGS\_62:

(Start: 6 @40934 has 5 MA's), (7, 40937), (Start: 10 @40979 has 6 MA's), (14, 41093),

Gene: Jeremy4pt0\_60 Start: 40843, Stop: 41076, Start Num: 9

Candidate Starts for Jeremy4pt0\_60:

(3, 40789), (Start: 9 @40843 has 15 MA's), (11, 40870), (12, 40873),

Gene: KeaneyLin\_61 Start: 41356, Stop: 41577, Start Num: 10

Candidate Starts for KeaneyLin\_61:

(Start: 6 @41311 has 5 MA's), (7, 41314), (Start: 10 @41356 has 6 MA's), (14, 41470),

Gene: Linda\_61 Start: 41141, Stop: 41374, Start Num: 9

Candidate Starts for Linda\_61:

(3, 41087), (Start: 9 @41141 has 15 MA's), (11, 41168), (12, 41171),

Gene: Michelle\_61 Start: 41143, Stop: 41376, Start Num: 9

Candidate Starts for Michelle\_61:

(3, 41089), (Start: 9 @41143 has 15 MA's), (11, 41170), (12, 41173),

Gene: MrAaronian\_61 Start: 41143, Stop: 41376, Start Num: 9  
Candidate Starts for MrAaronian\_61:  
(3, 41089), (Start: 9 @41143 has 15 MA's), (11, 41170), (12, 41173),

Gene: Mudcat\_60 Start: 42292, Stop: 42558, Start Num: 6  
Candidate Starts for Mudcat\_60:  
(Start: 6 @42292 has 5 MA's), (7, 42295), (Start: 10 @42337 has 6 MA's), (14, 42451),

Gene: Nason\_64 Start: 41646, Stop: 41912, Start Num: 6  
Candidate Starts for Nason\_64:  
(5, 41643), (Start: 6 @41646 has 5 MA's), (7, 41649), (Start: 10 @41691 has 6 MA's), (14, 41805),

Gene: Onestar\_59 Start: 40907, Stop: 41146, Start Num: 9  
Candidate Starts for Onestar\_59:  
(8, 40880), (Start: 9 @40907 has 15 MA's), (13, 41036), (14, 41039),

Gene: ProfFrink\_61 Start: 41144, Stop: 41377, Start Num: 9  
Candidate Starts for ProfFrink\_61:  
(3, 41090), (Start: 9 @41144 has 15 MA's), (11, 41171), (12, 41174),

Gene: Salk\_61 Start: 41141, Stop: 41374, Start Num: 9  
Candidate Starts for Salk\_61:  
(3, 41087), (Start: 9 @41141 has 15 MA's), (11, 41168), (12, 41171),

Gene: Shiba\_60 Start: 40841, Stop: 41074, Start Num: 9  
Candidate Starts for Shiba\_60:  
(3, 40787), (Start: 9 @40841 has 15 MA's), (11, 40868), (12, 40871),

Gene: Sloopyjoe\_61 Start: 41145, Stop: 41378, Start Num: 9  
Candidate Starts for Sloopyjoe\_61:  
(3, 41091), (Start: 9 @41145 has 15 MA's), (11, 41172), (12, 41175),

Gene: StarLord\_61 Start: 41144, Stop: 41377, Start Num: 9  
Candidate Starts for StarLord\_61:  
(3, 41090), (Start: 9 @41144 has 15 MA's), (11, 41171), (12, 41174),

Gene: Stardom\_62 Start: 40695, Stop: 40916, Start Num: 10  
Candidate Starts for Stardom\_62:  
(Start: 6 @40650 has 5 MA's), (7, 40653), (Start: 10 @40695 has 6 MA's), (14, 40809),

Gene: Stayer\_61 Start: 41141, Stop: 41374, Start Num: 9  
Candidate Starts for Stayer\_61:  
(3, 41087), (Start: 9 @41141 has 15 MA's), (11, 41168), (12, 41171),

Gene: YoshiYama\_66 Start: 42341, Stop: 42562, Start Num: 10  
Candidate Starts for YoshiYama\_66:  
(Start: 6 @42296 has 5 MA's), (7, 42299), (Start: 10 @42341 has 6 MA's), (14, 42455),