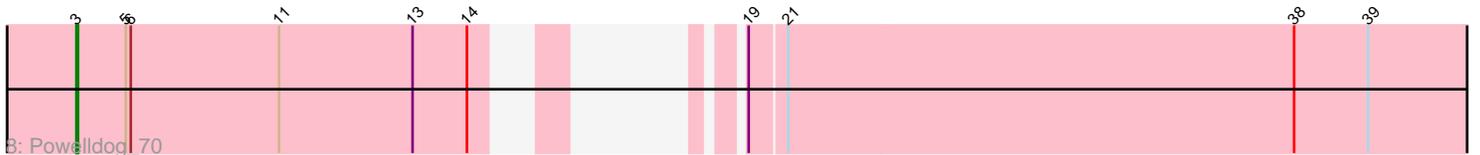
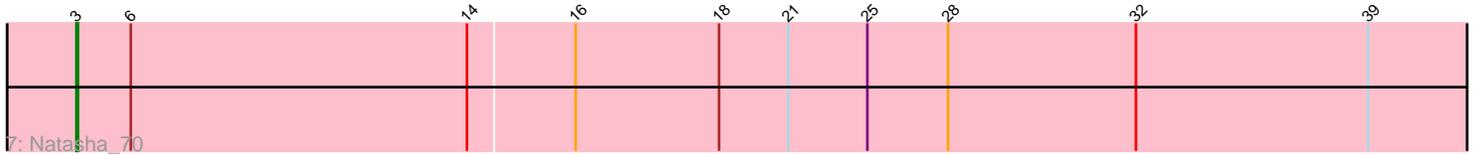
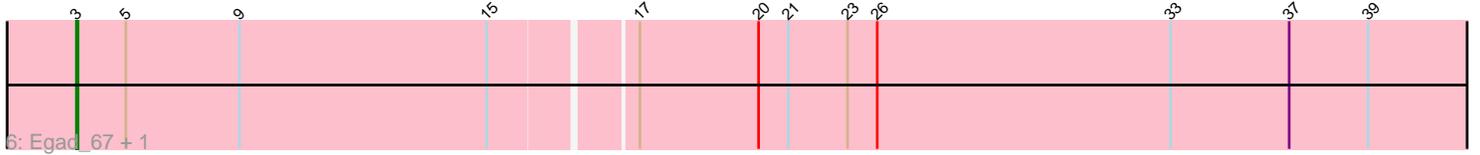
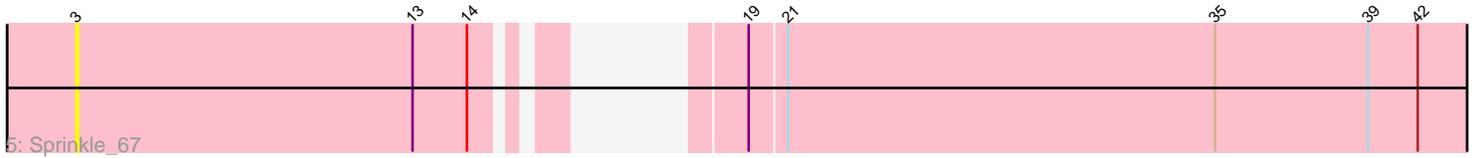
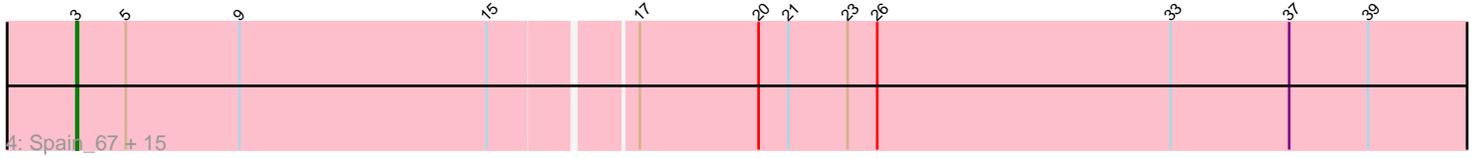
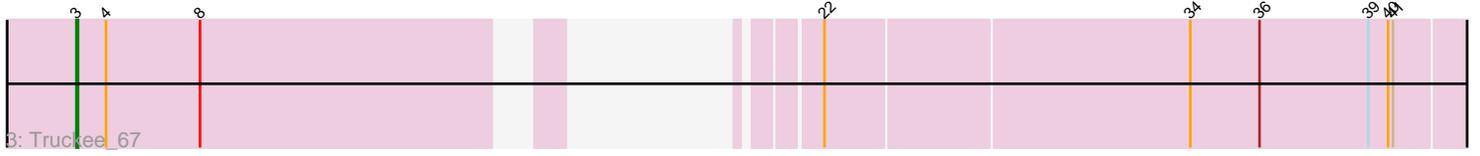
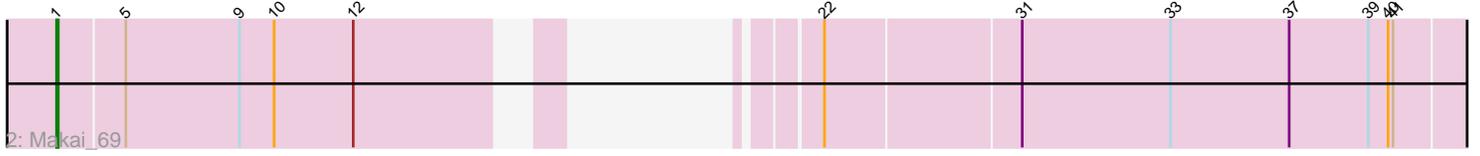
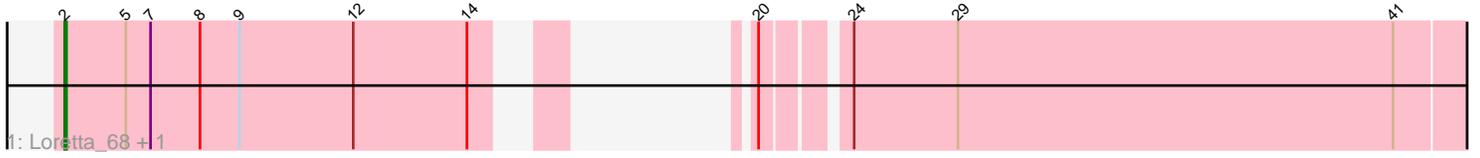


# Pham 284094



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 284094 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284094 has 27 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Loretta\_68, Ingrid\_71
- Track 2 : Makai\_69
- Track 3 : Truckee\_67
- Track 4 : Spain\_67, Salk\_67, Sloopyjoe\_67, Raunak\_68, Stayer\_67, Linda\_67, Boog\_66, BronxBay\_67, StarLord\_67, Michelle\_67, Shiba\_66, Jeremy4pt0\_64, MrAaronian\_67, HerbBucket\_65, DoctorPepper\_66, Djungelskog\_66
- Track 5 : Sprinkle\_67
- Track 6 : Egad\_67, ProfFrink\_67
- Track 7 : Natasha\_70
- Track 8 : Powelldog\_70
- Track 9 : RustyBoy\_71
- Track 10 : Sporto\_66

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

The start number called the most often in the published annotations is 3, it was called in 19 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Boog\_66, BronxBay\_67, Djungelskog\_66, DoctorPepper\_66, Egad\_67, HerbBucket\_65, Jeremy4pt0\_64, Linda\_67, Michelle\_67, MrAaronian\_67, Natasha\_70, Powelldog\_70, ProfFrink\_67, Raunak\_68, RustyBoy\_71, Salk\_67, Shiba\_66, Sloopyjoe\_67, Spain\_67, Sporto\_66, Sprinkle\_67, StarLord\_67, Stayer\_67, Truckee\_67,

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

- 

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

- Ingrid\_71, Loretta\_68, Makai\_69,

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

Start 1:

- Found in 1 of 27 ( 3.7% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Makai\_69 (AU5),

#### Start 2:

- Found in 2 of 27 ( 7.4% ) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ingrid\_71 (AU3), Loretta\_68 (AU3),

#### Start 3:

- Found in 24 of 27 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 19 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boog\_66 (AW), BronxBay\_67 (AW), Djungelskog\_66 (AW), DoctorPepper\_66 (AW), Egad\_67 (AW), HerbBucket\_65 (AW), Jeremy4pt0\_64 (AW), Linda\_67 (AW), Michelle\_67 (AW), MrAaronian\_67 (AW), Natasha\_70 (AW), PowellDog\_70 (AW), ProfFrink\_67 (AW), Raunak\_68 (AW), RustyBoy\_71 (AW), Salk\_67 (AW), Shiba\_66 (AW), Sloopyjoe\_67 (AW), Spain\_67 (AW), Sporto\_66 (AW), Sprinkle\_67 (AW), StarLord\_67 (AW), Stayer\_67 (AW), Truckee\_67 (AU5),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AU3, AU5, AW,

Info for manual annotations of cluster AU3:

- Start number 2 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU5:

- Start number 1 was manually annotated 1 time for cluster AU5.
- Start number 3 was manually annotated 1 time for cluster AU5.

Info for manual annotations of cluster AW:

- Start number 3 was manually annotated 18 times for cluster AW.

### **Gene Information:**

Gene: Boog\_66 Start: 42856, Stop: 43689, Start Num: 3

Candidate Starts for Boog\_66:

(Start: 3 @42856 has 19 MA's), (5, 42886), (9, 42955), (15, 43105), (17, 43186), (20, 43258), (21, 43276), (23, 43312), (26, 43330), (33, 43507), (37, 43579), (39, 43627),

Gene: BronxBay\_67 Start: 43128, Stop: 43961, Start Num: 3

Candidate Starts for BronxBay\_67:

(Start: 3 @43128 has 19 MA's), (5, 43158), (9, 43227), (15, 43377), (17, 43458), (20, 43530), (21, 43548), (23, 43584), (26, 43602), (33, 43779), (37, 43851), (39, 43899),

Gene: Djungelskog\_66 Start: 43130, Stop: 43963, Start Num: 3

Candidate Starts for Djungelskog\_66:

(Start: 3 @43130 has 19 MA's), (5, 43160), (9, 43229), (15, 43379), (17, 43460), (20, 43532), (21, 43550), (23, 43586), (26, 43604), (33, 43781), (37, 43853), (39, 43901),

Gene: DoctorPepper\_66 Start: 42832, Stop: 43665, Start Num: 3

Candidate Starts for DoctorPepper\_66:

(Start: 3 @42832 has 19 MA's), (5, 42862), (9, 42931), (15, 43081), (17, 43162), (20, 43234), (21, 43252), (23, 43288), (26, 43306), (33, 43483), (37, 43555), (39, 43603),

Gene: Egad\_67 Start: 43106, Stop: 43939, Start Num: 3

Candidate Starts for Egad\_67:

(Start: 3 @43106 has 19 MA's), (5, 43136), (9, 43205), (15, 43355), (17, 43436), (20, 43508), (21, 43526), (23, 43562), (26, 43580), (33, 43757), (37, 43829), (39, 43877),

Gene: HerbBucket\_65 Start: 42838, Stop: 43671, Start Num: 3

Candidate Starts for HerbBucket\_65:

(Start: 3 @42838 has 19 MA's), (5, 42868), (9, 42937), (15, 43087), (17, 43168), (20, 43240), (21, 43258), (23, 43294), (26, 43312), (33, 43489), (37, 43561), (39, 43609),

Gene: Ingrid\_71 Start: 45546, Stop: 46247, Start Num: 2

Candidate Starts for Ingrid\_71:

(Start: 2 @45546 has 2 MA's), (5, 45582), (7, 45597), (8, 45627), (9, 45651), (12, 45720), (14, 45789), (20, 45834), (24, 45876), (29, 45939), (41, 46203),

Gene: Jeremy4pt0\_64 Start: 42827, Stop: 43660, Start Num: 3

Candidate Starts for Jeremy4pt0\_64:

(Start: 3 @42827 has 19 MA's), (5, 42857), (9, 42926), (15, 43076), (17, 43157), (20, 43229), (21, 43247), (23, 43283), (26, 43301), (33, 43478), (37, 43550), (39, 43598),

Gene: Linda\_67 Start: 43125, Stop: 43958, Start Num: 3

Candidate Starts for Linda\_67:

(Start: 3 @43125 has 19 MA's), (5, 43155), (9, 43224), (15, 43374), (17, 43455), (20, 43527), (21, 43545), (23, 43581), (26, 43599), (33, 43776), (37, 43848), (39, 43896),

Gene: Loretta\_68 Start: 45546, Stop: 46247, Start Num: 2

Candidate Starts for Loretta\_68:

(Start: 2 @45546 has 2 MA's), (5, 45582), (7, 45597), (8, 45627), (9, 45651), (12, 45720), (14, 45789), (20, 45834), (24, 45876), (29, 45939), (41, 46203),

Gene: Makai\_69 Start: 45687, Stop: 46397, Start Num: 1

Candidate Starts for Makai\_69:

(Start: 1 @45687 has 1 MA's), (5, 45726), (9, 45795), (10, 45816), (12, 45864), (22, 46008), (31, 46122), (33, 46212), (37, 46284), (39, 46332), (40, 46344), (41, 46347),

Gene: Michelle\_67 Start: 43127, Stop: 43960, Start Num: 3

Candidate Starts for Michelle\_67:

(Start: 3 @43127 has 19 MA's), (5, 43157), (9, 43226), (15, 43376), (17, 43457), (20, 43529), (21, 43547), (23, 43583), (26, 43601), (33, 43778), (37, 43850), (39, 43898),

Gene: MrAaronian\_67 Start: 43127, Stop: 43960, Start Num: 3

Candidate Starts for MrAaronian\_67:

(Start: 3 @43127 has 19 MA's), (5, 43157), (9, 43226), (15, 43376), (17, 43457), (20, 43529), (21, 43547), (23, 43583), (26, 43601), (33, 43778), (37, 43850), (39, 43898),

Gene: Natasha\_70 Start: 43431, Stop: 44273, Start Num: 3  
Candidate Starts for Natasha\_70:  
(Start: 3 @43431 has 19 MA's), (6, 43464), (14, 43668), (16, 43731), (18, 43818), (21, 43860), (25, 43908), (28, 43956), (32, 44070), (39, 44211),

Gene: Powelldog\_70 Start: 43949, Stop: 44680, Start Num: 3  
Candidate Starts for Powelldog\_70:  
(Start: 3 @43949 has 19 MA's), (5, 43979), (6, 43982), (11, 44072), (13, 44153), (14, 44186), (19, 44240), (21, 44261), (38, 44567), (39, 44612),

Gene: ProfFrink\_67 Start: 43105, Stop: 43938, Start Num: 3  
Candidate Starts for ProfFrink\_67:  
(Start: 3 @43105 has 19 MA's), (5, 43135), (9, 43204), (15, 43354), (17, 43435), (20, 43507), (21, 43525), (23, 43561), (26, 43579), (33, 43756), (37, 43828), (39, 43876),

Gene: Raunak\_68 Start: 42767, Stop: 43600, Start Num: 3  
Candidate Starts for Raunak\_68:  
(Start: 3 @42767 has 19 MA's), (5, 42797), (9, 42866), (15, 43016), (17, 43097), (20, 43169), (21, 43187), (23, 43223), (26, 43241), (33, 43418), (37, 43490), (39, 43538),

Gene: RustyBoy\_71 Start: 43630, Stop: 44472, Start Num: 3  
Candidate Starts for RustyBoy\_71:  
(Start: 3 @43630 has 19 MA's), (6, 43663), (14, 43867), (16, 43930), (18, 44017), (21, 44059), (25, 44107), (28, 44155), (30, 44182), (32, 44269), (39, 44410),

Gene: Salk\_67 Start: 43125, Stop: 43958, Start Num: 3  
Candidate Starts for Salk\_67:  
(Start: 3 @43125 has 19 MA's), (5, 43155), (9, 43224), (15, 43374), (17, 43455), (20, 43527), (21, 43545), (23, 43581), (26, 43599), (33, 43776), (37, 43848), (39, 43896),

Gene: Shiba\_66 Start: 42783, Stop: 43616, Start Num: 3  
Candidate Starts for Shiba\_66:  
(Start: 3 @42783 has 19 MA's), (5, 42813), (9, 42882), (15, 43032), (17, 43113), (20, 43185), (21, 43203), (23, 43239), (26, 43257), (33, 43434), (37, 43506), (39, 43554),

Gene: Sloopyjoe\_67 Start: 43129, Stop: 43962, Start Num: 3  
Candidate Starts for Sloopyjoe\_67:  
(Start: 3 @43129 has 19 MA's), (5, 43159), (9, 43228), (15, 43378), (17, 43459), (20, 43531), (21, 43549), (23, 43585), (26, 43603), (33, 43780), (37, 43852), (39, 43900),

Gene: Spain\_67 Start: 43127, Stop: 43960, Start Num: 3  
Candidate Starts for Spain\_67:  
(Start: 3 @43127 has 19 MA's), (5, 43157), (9, 43226), (15, 43376), (17, 43457), (20, 43529), (21, 43547), (23, 43583), (26, 43601), (33, 43778), (37, 43850), (39, 43898),

Gene: Sporto\_66 Start: 44241, Stop: 45047, Start Num: 3  
Candidate Starts for Sporto\_66:  
(Start: 3 @44241 has 19 MA's), (6, 44274), (14, 44478), (16, 44544), (18, 44592), (21, 44634), (25, 44682), (27, 44694), (28, 44730), (29, 44736), (32, 44844), (38, 44940), (39, 44985),

Gene: Sprinkle\_67 Start: 43665, Stop: 44420, Start Num: 3  
Candidate Starts for Sprinkle\_67:

(Start: 3 @43665 has 19 MA's), (13, 43869), (14, 43902), (19, 43977), (21, 43998), (35, 44256), (39, 44349), (42, 44379),

Gene: StarLord\_67 Start: 43122, Stop: 43955, Start Num: 3

Candidate Starts for StarLord\_67:

(Start: 3 @43122 has 19 MA's), (5, 43152), (9, 43221), (15, 43371), (17, 43452), (20, 43524), (21, 43542), (23, 43578), (26, 43596), (33, 43773), (37, 43845), (39, 43893),

Gene: Stayer\_67 Start: 43125, Stop: 43958, Start Num: 3

Candidate Starts for Stayer\_67:

(Start: 3 @43125 has 19 MA's), (5, 43155), (9, 43224), (15, 43374), (17, 43455), (20, 43527), (21, 43545), (23, 43581), (26, 43599), (33, 43776), (37, 43848), (39, 43896),

Gene: Truckee\_67 Start: 45474, Stop: 46175, Start Num: 3

Candidate Starts for Truckee\_67:

(Start: 3 @45474 has 19 MA's), (4, 45492), (8, 45549), (22, 45786), (34, 46002), (36, 46044), (39, 46110), (40, 46122), (41, 46125),