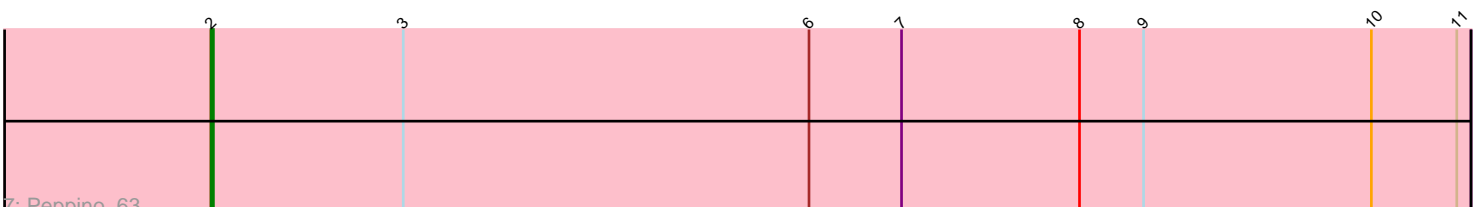
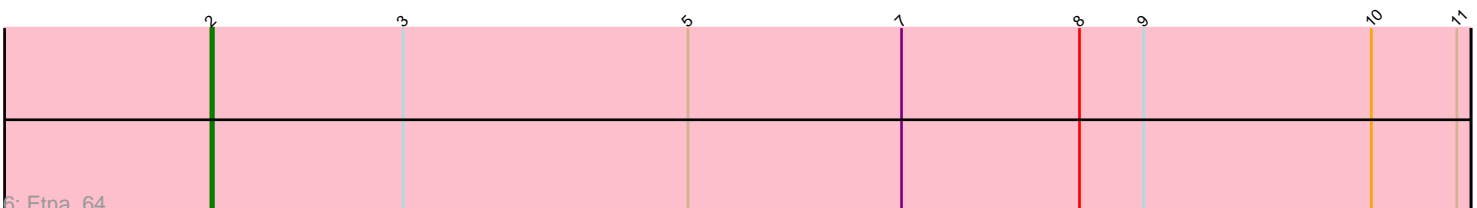
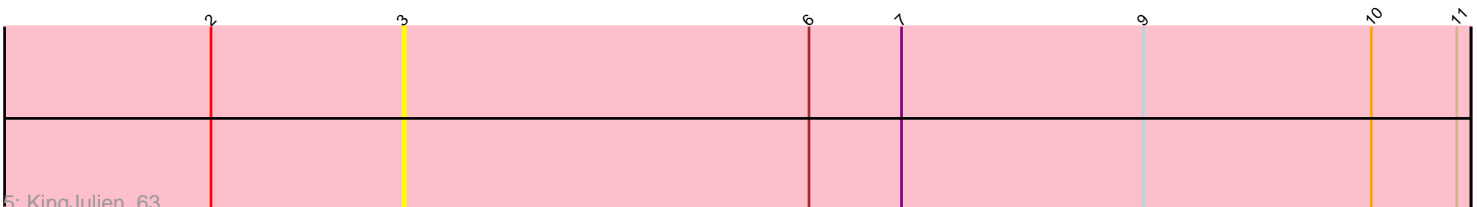
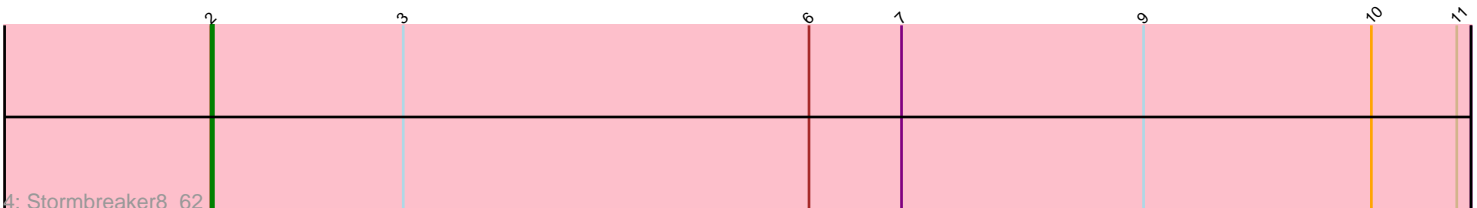
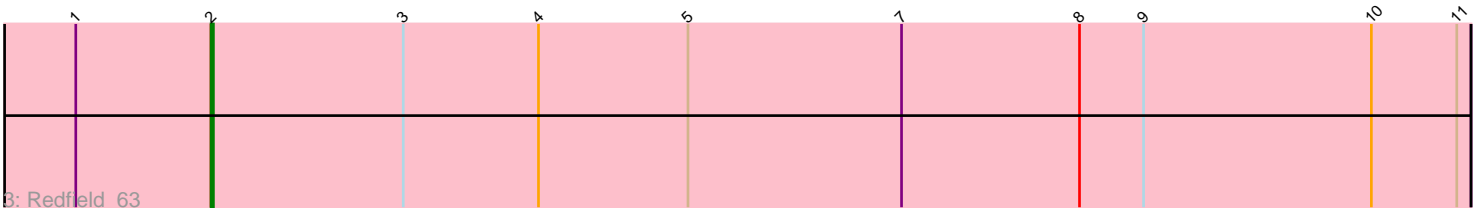
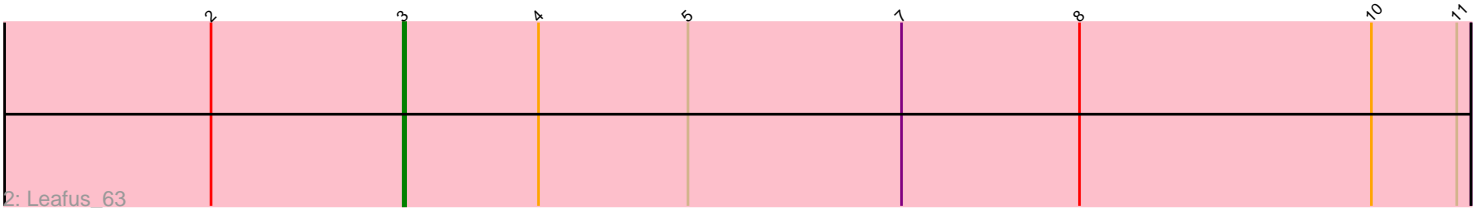
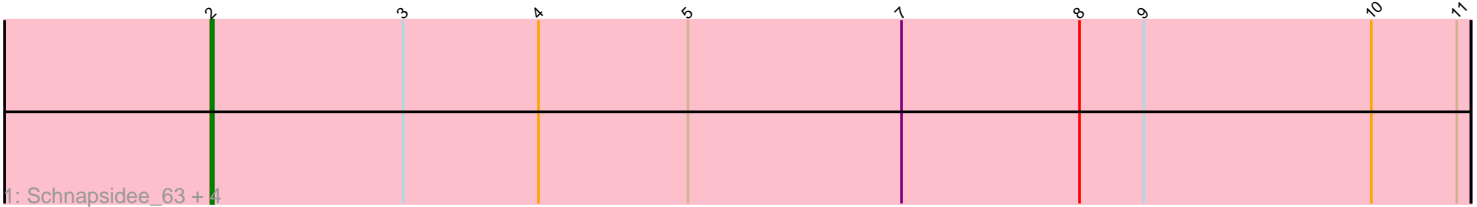


Pham 158350



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 158350 Report

This analysis was run 04/28/24 on database version 559.

Pham number 158350 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Schnapsidee\_63, BeeBee8\_65, Hamlet\_63, Balsa\_62, Raccoon\_63
- Track 2 : Leafus\_63
- Track 3 : Redfield\_63
- Track 4 : Stormbreaker8\_62
- Track 5 : KingJulien\_63
- Track 6 : Etna\_64
- Track 7 : Peppino\_63

### ***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 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Balsa\_62, BeeBee8\_65, Etna\_64, Hamlet\_63, Peppino\_63, Raccoon\_63, Redfield\_63, Schnapsidee\_63, Stormbreaker8\_62,

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

- KingJulien\_63, Leafus\_63,

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

- 

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

Start 2:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Balsa\_62 (EA1), BeeBee8\_65 (EA1), Etna\_64 (EA1), Hamlet\_63 (EA1), Peppino\_63 (EA1), Raccoon\_63 (EA1), Redfield\_63 (EA1), Schnapsidee\_63 (EA1), Stormbreaker8\_62 (EA1),

Start 3:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 18.2% of time when present
- Phage (with cluster) where this start called: KingJulien\_63 (EA1), Leafus\_63 (EA1),

### **Summary by clusters:**

There is one cluster represented in this pham: EA1

Info for manual annotations of cluster EA1:

- Start number 2 was manually annotated 9 times for cluster EA1.
- Start number 3 was manually annotated 1 time for cluster EA1.

### **Gene Information:**

Gene: Balsa\_62 Start: 41165, Stop: 41695, Start Num: 2

Candidate Starts for Balsa\_62:

(Start: 2 @41165 has 9 MA's), (Start: 3 @41246 has 1 MA's), (4, 41303), (5, 41366), (7, 41456), (8, 41531), (9, 41558), (10, 41654), (11, 41690),

Gene: BeeBee8\_65 Start: 41330, Stop: 41860, Start Num: 2

Candidate Starts for BeeBee8\_65:

(Start: 2 @41330 has 9 MA's), (Start: 3 @41411 has 1 MA's), (4, 41468), (5, 41531), (7, 41621), (8, 41696), (9, 41723), (10, 41819), (11, 41855),

Gene: Etna\_64 Start: 41211, Stop: 41741, Start Num: 2

Candidate Starts for Etna\_64:

(Start: 2 @41211 has 9 MA's), (Start: 3 @41292 has 1 MA's), (5, 41412), (7, 41502), (8, 41577), (9, 41604), (10, 41700), (11, 41736),

Gene: Hamlet\_63 Start: 41237, Stop: 41767, Start Num: 2

Candidate Starts for Hamlet\_63:

(Start: 2 @41237 has 9 MA's), (Start: 3 @41318 has 1 MA's), (4, 41375), (5, 41438), (7, 41528), (8, 41603), (9, 41630), (10, 41726), (11, 41762),

Gene: KingJulien\_63 Start: 41134, Stop: 41583, Start Num: 3

Candidate Starts for KingJulien\_63:

(Start: 2 @41053 has 9 MA's), (Start: 3 @41134 has 1 MA's), (6, 41305), (7, 41344), (9, 41446), (10, 41542), (11, 41578),

Gene: Leafus\_63 Start: 41384, Stop: 41833, Start Num: 3

Candidate Starts for Leafus\_63:

(Start: 2 @41303 has 9 MA's), (Start: 3 @41384 has 1 MA's), (4, 41441), (5, 41504), (7, 41594), (8, 41669), (10, 41792), (11, 41828),

Gene: Peppino\_63 Start: 41235, Stop: 41765, Start Num: 2

Candidate Starts for Peppino\_63:

(Start: 2 @41235 has 9 MA's), (Start: 3 @41316 has 1 MA's), (6, 41487), (7, 41526), (8, 41601), (9, 41628), (10, 41724), (11, 41760),

Gene: Raccoon\_63 Start: 41197, Stop: 41727, Start Num: 2

Candidate Starts for Raccoon\_63:

(Start: 2 @41197 has 9 MA's), (Start: 3 @41278 has 1 MA's), (4, 41335), (5, 41398), (7, 41488), (8, 41563), (9, 41590), (10, 41686), (11, 41722),

Gene: Redfield\_63 Start: 41233, Stop: 41763, Start Num: 2

Candidate Starts for Redfield\_63:

(1, 41176), (Start: 2 @41233 has 9 MA's), (Start: 3 @41314 has 1 MA's), (4, 41371), (5, 41434), (7, 41524), (8, 41599), (9, 41626), (10, 41722), (11, 41758),

Gene: Schnapsidee\_63 Start: 41175, Stop: 41705, Start Num: 2

Candidate Starts for Schnapsidee\_63:

(Start: 2 @41175 has 9 MA's), (Start: 3 @41256 has 1 MA's), (4, 41313), (5, 41376), (7, 41466), (8, 41541), (9, 41568), (10, 41664), (11, 41700),

Gene: Stormbreaker8\_62 Start: 41054, Stop: 41584, Start Num: 2

Candidate Starts for Stormbreaker8\_62:

(Start: 2 @41054 has 9 MA's), (Start: 3 @41135 has 1 MA's), (6, 41306), (7, 41345), (9, 41447), (10, 41543), (11, 41579),