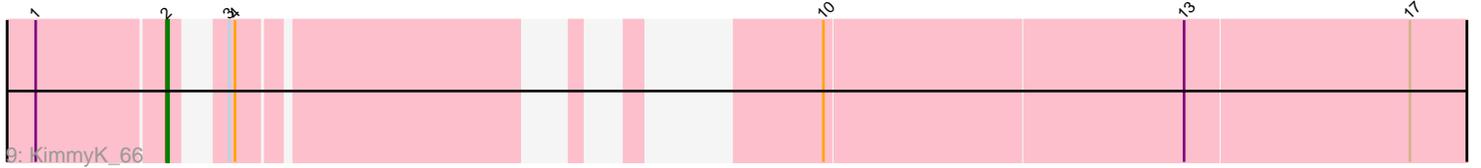
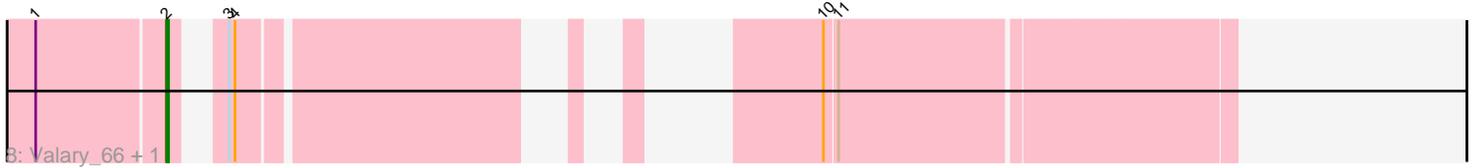
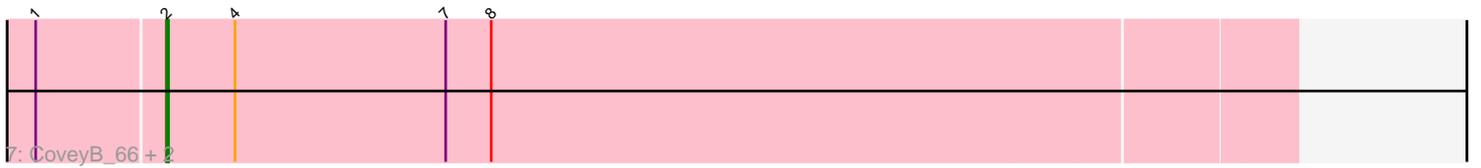
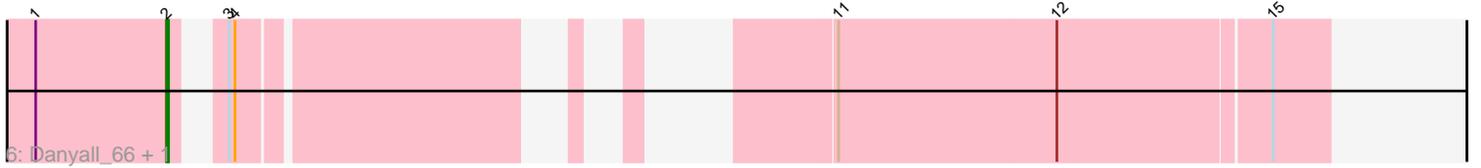
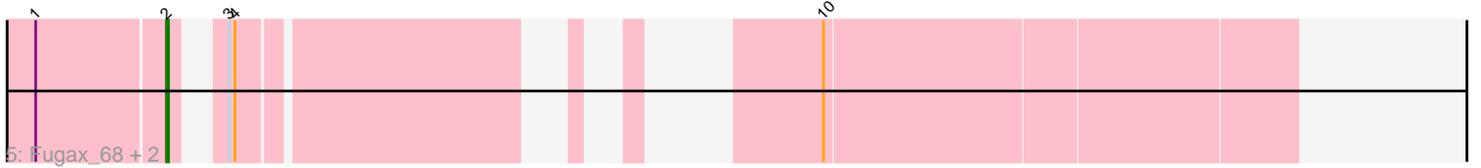
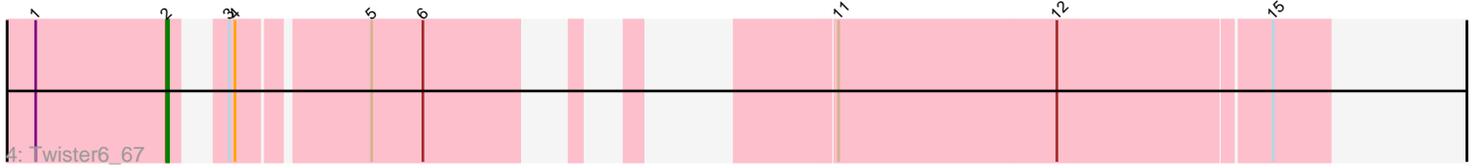
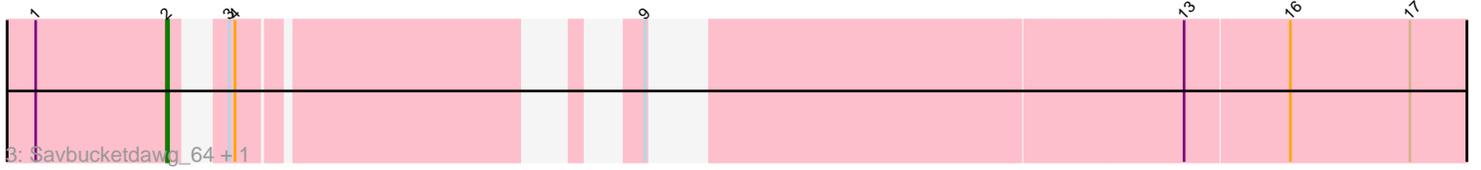
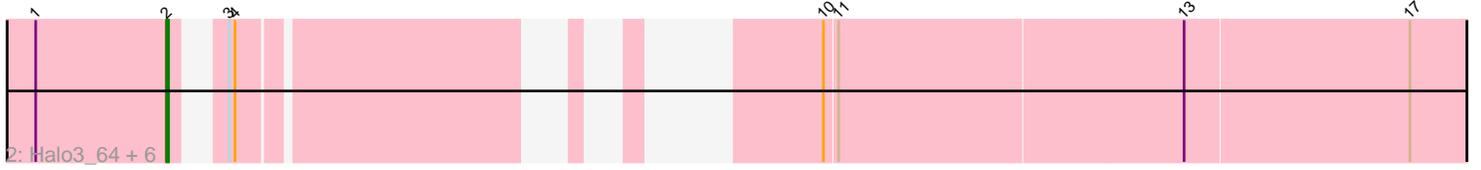
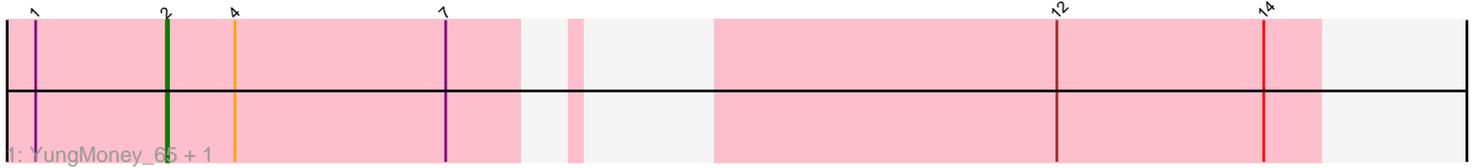


Pham 289730



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 289730 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289730 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : YungMoney\_65, Mutzi\_64
- Track 2 : Halo3\_64, Fireball\_68, TillyBobJoe\_65, Wizard\_63, CherryCola\_67, Gezellig\_63, Portcullis\_67
- Track 3 : Savbucketdawg\_64, Jambalaya\_64
- Track 4 : Twister6\_67
- Track 5 : Fugax\_68, Barb\_67, ClamChowder\_67
- Track 6 : Danyall\_66, Arri\_66
- Track 7 : CoveyB\_66, VanDeWege\_67, Nubi\_65
- Track 8 : Valary\_66, Shinji\_64
- Track 9 : KimmyK\_66

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

Genes that call this "Most Annotated" start:

- Arri\_66, Barb\_67, CherryCola\_67, ClamChowder\_67, CoveyB\_66, Danyall\_66, Fireball\_68, Fugax\_68, Gezellig\_63, Halo3\_64, Jambalaya\_64, KimmyK\_66, Mutzi\_64, Nubi\_65, Portcullis\_67, Savbucketdawg\_64, Shinji\_64, TillyBobJoe\_65, Twister6\_67, Valary\_66, VanDeWege\_67, Wizard\_63, YungMoney\_65,

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

- 

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

- 

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

Start 2:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Arri\_66 (DC1), Barb\_67 (DC1), CherryCola\_67 (DC1), ClamChowder\_67 (DC1), CoveyB\_66 (DC1), Danyall\_66 (DC1), Fireball\_68 (DC1), Fugax\_68 (DC1), Gezellig\_63 (DC1), Halo3\_64 (DC1), Jambalaya\_64 (DC1), KimmyK\_66 (DC1), Mutzi\_64 (DC1), Nubi\_65 (DC1), Portcullis\_67 (DC1), Savbucketdawg\_64 (DC1), Shinji\_64 (DC1), TillyBobJoe\_65 (DC1), Twister6\_67 (DC1), Valary\_66 (DC1), VanDeWege\_67 (DC1), Wizard\_63 (DC1), YungMoney\_65 (DC1),

### **Summary by clusters:**

There is one cluster represented in this pham: DC1

Info for manual annotations of cluster DC1:

•Start number 2 was manually annotated 21 times for cluster DC1.

### **Gene Information:**

Gene: Arri\_66 Start: 48239, Stop: 48718, Start Num: 2

Candidate Starts for Arri\_66:

(1, 48170), (Start: 2 @48239 has 21 MA's), (3, 48254), (4, 48257), (11, 48467), (12, 48581), (15, 48689),

Gene: Barb\_67 Start: 48116, Stop: 48577, Start Num: 2

Candidate Starts for Barb\_67:

(1, 48050), (Start: 2 @48116 has 21 MA's), (3, 48131), (4, 48134), (10, 48338),

Gene: CherryCola\_67 Start: 48857, Stop: 49420, Start Num: 2

Candidate Starts for CherryCola\_67:

(1, 48788), (Start: 2 @48857 has 21 MA's), (3, 48872), (4, 48875), (10, 49079), (11, 49085), (13, 49262), (17, 49379),

Gene: ClamChowder\_67 Start: 48116, Stop: 48577, Start Num: 2

Candidate Starts for ClamChowder\_67:

(1, 48050), (Start: 2 @48116 has 21 MA's), (3, 48131), (4, 48134), (10, 48338),

Gene: CoveyB\_66 Start: 47947, Stop: 48534, Start Num: 2

Candidate Starts for CoveyB\_66:

(1, 47881), (Start: 2 @47947 has 21 MA's), (4, 47983), (7, 48094), (8, 48118),

Gene: Danyall\_66 Start: 48207, Stop: 48686, Start Num: 2

Candidate Starts for Danyall\_66:

(1, 48138), (Start: 2 @48207 has 21 MA's), (3, 48222), (4, 48225), (11, 48435), (12, 48549), (15, 48657),

Gene: Fireball\_68 Start: 48509, Stop: 49072, Start Num: 2

Candidate Starts for Fireball\_68:

(1, 48440), (Start: 2 @48509 has 21 MA's), (3, 48524), (4, 48527), (10, 48731), (11, 48737), (13, 48914), (17, 49031),

Gene: Fugax\_68 Start: 48108, Stop: 48569, Start Num: 2

Candidate Starts for Fugax\_68:

(1, 48042), (Start: 2 @48108 has 21 MA's), (3, 48123), (4, 48126), (10, 48330),

Gene: Gezellig\_63 Start: 48103, Stop: 48666, Start Num: 2

Candidate Starts for Gezellig\_63:

(1, 48034), (Start: 2 @48103 has 21 MA's), (3, 48118), (4, 48121), (10, 48325), (11, 48331), (13, 48508), (17, 48625),

Gene: Halo3\_64 Start: 48688, Stop: 49251, Start Num: 2

Candidate Starts for Halo3\_64:

(1, 48619), (Start: 2 @48688 has 21 MA's), (3, 48703), (4, 48706), (10, 48910), (11, 48916), (13, 49093), (17, 49210),

Gene: Jambalaya\_64 Start: 47983, Stop: 48564, Start Num: 2

Candidate Starts for Jambalaya\_64:

(1, 47914), (Start: 2 @47983 has 21 MA's), (3, 47998), (4, 48001), (9, 48160), (13, 48406), (16, 48460), (17, 48523),

Gene: KimmyK\_66 Start: 48550, Stop: 49113, Start Num: 2

Candidate Starts for KimmyK\_66:

(1, 48484), (Start: 2 @48550 has 21 MA's), (3, 48565), (4, 48568), (10, 48772), (13, 48955), (17, 49072),

Gene: Mutzi\_64 Start: 49385, Stop: 49894, Start Num: 2

Candidate Starts for Mutzi\_64:

(1, 49316), (Start: 2 @49385 has 21 MA's), (4, 49421), (7, 49532), (12, 49757), (14, 49865),

Gene: Nubi\_65 Start: 47759, Stop: 48346, Start Num: 2

Candidate Starts for Nubi\_65:

(1, 47693), (Start: 2 @47759 has 21 MA's), (4, 47795), (7, 47906), (8, 47930),

Gene: Portcullis\_67 Start: 48240, Stop: 48803, Start Num: 2

Candidate Starts for Portcullis\_67:

(1, 48171), (Start: 2 @48240 has 21 MA's), (3, 48255), (4, 48258), (10, 48462), (11, 48468), (13, 48645), (17, 48762),

Gene: Savbucketdawg\_64 Start: 47983, Stop: 48564, Start Num: 2

Candidate Starts for Savbucketdawg\_64:

(1, 47914), (Start: 2 @47983 has 21 MA's), (3, 47998), (4, 48001), (9, 48160), (13, 48406), (16, 48460), (17, 48523),

Gene: Shinji\_64 Start: 47822, Stop: 48247, Start Num: 2

Candidate Starts for Shinji\_64:

(1, 47756), (Start: 2 @47822 has 21 MA's), (3, 47837), (4, 47840), (10, 48044), (11, 48050),

Gene: TillyBobJoe\_65 Start: 48109, Stop: 48672, Start Num: 2

Candidate Starts for TillyBobJoe\_65:

(1, 48040), (Start: 2 @48109 has 21 MA's), (3, 48124), (4, 48127), (10, 48331), (11, 48337), (13, 48514), (17, 48631),

Gene: Twister6\_67 Start: 48010, Stop: 48489, Start Num: 2

Candidate Starts for Twister6\_67:

(1, 47941), (Start: 2 @48010 has 21 MA's), (3, 48025), (4, 48028), (5, 48091), (6, 48118), (11, 48238), (12, 48352), (15, 48460),

Gene: Valary\_66 Start: 48860, Stop: 49285, Start Num: 2

Candidate Starts for Valary\_66:

(1, 48794), (Start: 2 @48860 has 21 MA's), (3, 48875), (4, 48878), (10, 49082), (11, 49088),

Gene: VanDeWege\_67 Start: 48194, Stop: 48781, Start Num: 2

Candidate Starts for VanDeWege\_67:

(1, 48128), (Start: 2 @48194 has 21 MA's), (4, 48230), (7, 48341), (8, 48365),

Gene: Wizard\_63 Start: 48103, Stop: 48666, Start Num: 2

Candidate Starts for Wizard\_63:

(1, 48034), (Start: 2 @48103 has 21 MA's), (3, 48118), (4, 48121), (10, 48325), (11, 48331), (13, 48508), (17, 48625),

Gene: YungMoney\_65 Start: 50225, Stop: 50734, Start Num: 2

Candidate Starts for YungMoney\_65:

(1, 50156), (Start: 2 @50225 has 21 MA's), (4, 50261), (7, 50372), (12, 50597), (14, 50705),