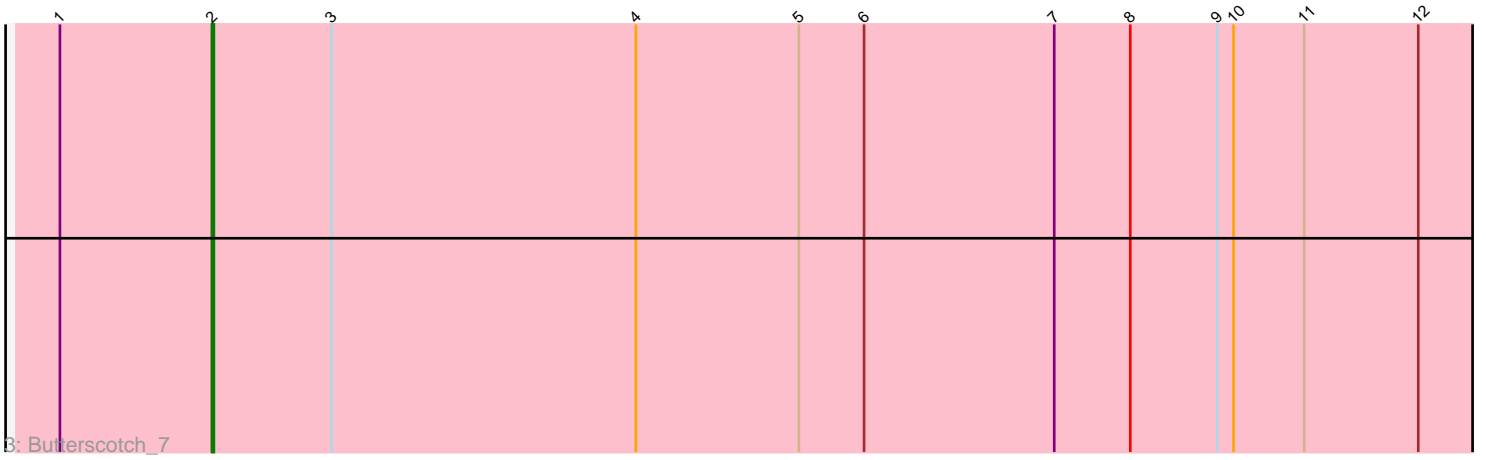
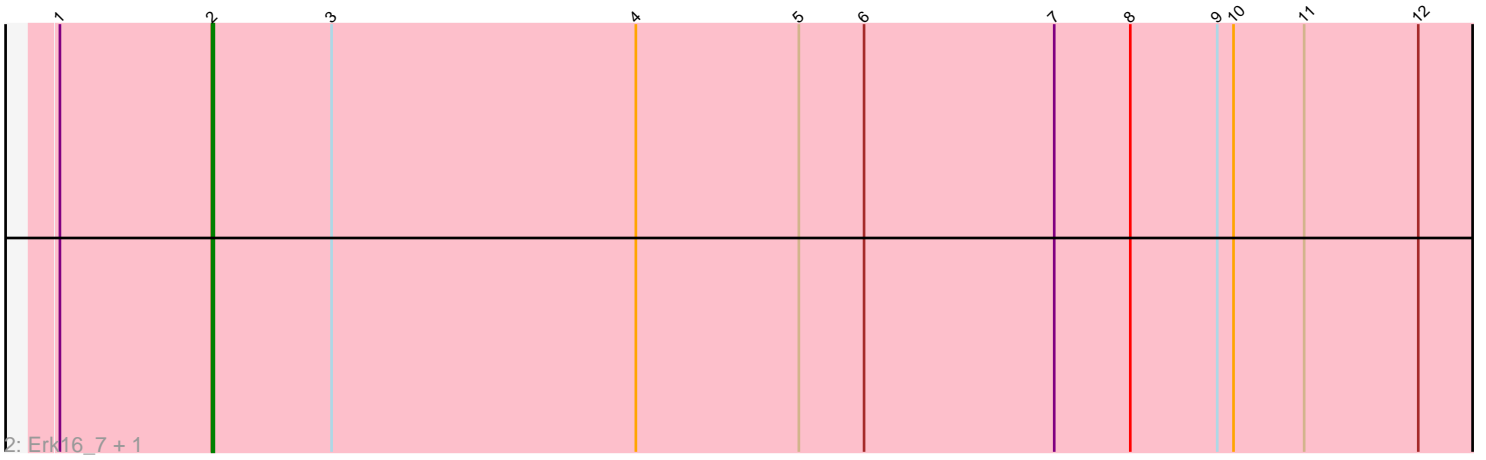
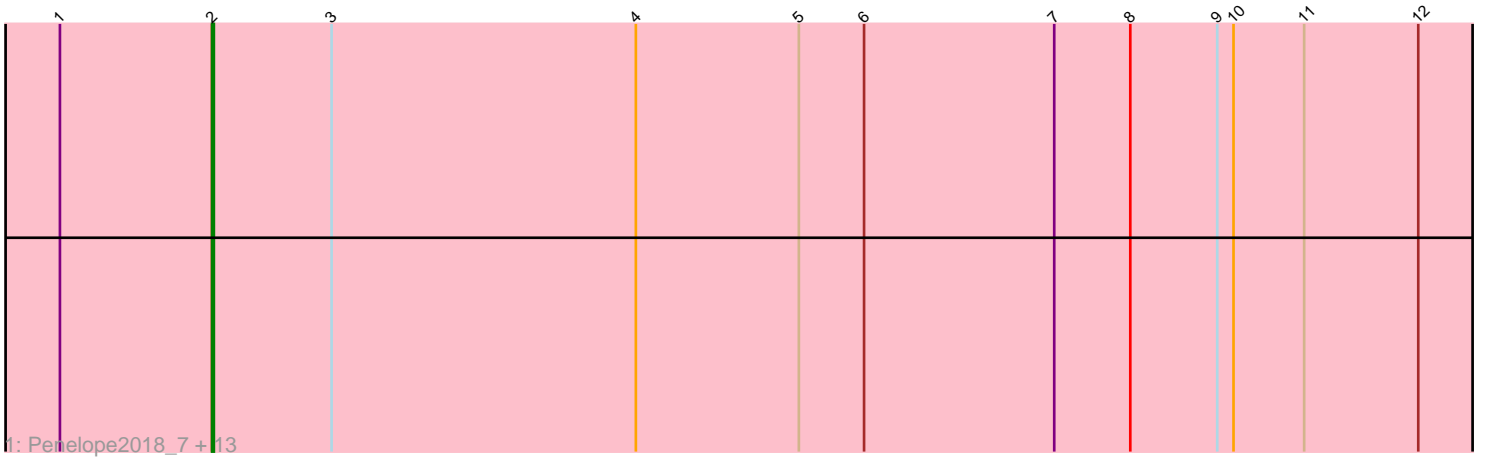


Pham 4359



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 4359 Report

This analysis was run 07/09/24 on database version 566.

Pham number 4359 has 17 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Penelope2018\_7, Helpful\_7, BigMama\_6, Chill\_7, Giuseppe\_7, Adjutor\_7, Delton\_7, PBI1\_7, Mopey\_7, WaldoWhy\_7, Prager\_7, Thoth\_7, Troll4\_7, Visconti\_7
- Track 2 : Erk16\_7, PLOT\_7
- Track 3 : Butterscotch\_7

### ***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 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adjutor\_7, BigMama\_6, Butterscotch\_7, Chill\_7, Delton\_7, Erk16\_7, Giuseppe\_7, Helpful\_7, Mopey\_7, PBI1\_7, PLOT\_7, Penelope2018\_7, Prager\_7, Thoth\_7, Troll4\_7, Visconti\_7, WaldoWhy\_7,

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 17 of 17 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor\_7 (D1), BigMama\_6 (D1), Butterscotch\_7 (D1), Chill\_7 (D1), Delton\_7 (D1), Erk16\_7 (D1), Giuseppe\_7 (D1), Helpful\_7 (D1), Mopey\_7 (D1), PBI1\_7 (D1), PLOT\_7 (D1), Penelope2018\_7 (D1), Prager\_7 (D1), Thoth\_7 (D1), Troll4\_7 (D1), Visconti\_7 (D1), WaldoWhy\_7 (D1),

### **Summary by clusters:**

There is one cluster represented in this pham: D1

Info for manual annotations of cluster D1:

•Start number 2 was manually annotated 16 times for cluster D1.

**Gene Information:**

Gene: Adjutor\_7 Start: 3773, Stop: 4543, Start Num: 2

Candidate Starts for Adjutor\_7:

(1, 3689), (Start: 2 @3773 has 16 MA's), (3, 3839), (4, 4007), (5, 4097), (6, 4133), (7, 4238), (8, 4280), (9, 4328), (10, 4337), (11, 4376), (12, 4439),

Gene: BigMama\_6 Start: 3849, Stop: 4619, Start Num: 2

Candidate Starts for BigMama\_6:

(1, 3765), (Start: 2 @3849 has 16 MA's), (3, 3915), (4, 4083), (5, 4173), (6, 4209), (7, 4314), (8, 4356), (9, 4404), (10, 4413), (11, 4452), (12, 4515),

Gene: Butterscotch\_7 Start: 3836, Stop: 4606, Start Num: 2

Candidate Starts for Butterscotch\_7:

(1, 3752), (Start: 2 @3836 has 16 MA's), (3, 3902), (4, 4070), (5, 4160), (6, 4196), (7, 4301), (8, 4343), (9, 4391), (10, 4400), (11, 4439), (12, 4502),

Gene: Chill\_7 Start: 3839, Stop: 4609, Start Num: 2

Candidate Starts for Chill\_7:

(1, 3755), (Start: 2 @3839 has 16 MA's), (3, 3905), (4, 4073), (5, 4163), (6, 4199), (7, 4304), (8, 4346), (9, 4394), (10, 4403), (11, 4442), (12, 4505),

Gene: Delton\_7 Start: 3845, Stop: 4615, Start Num: 2

Candidate Starts for Delton\_7:

(1, 3761), (Start: 2 @3845 has 16 MA's), (3, 3911), (4, 4079), (5, 4169), (6, 4205), (7, 4310), (8, 4352), (9, 4400), (10, 4409), (11, 4448), (12, 4511),

Gene: Erk16\_7 Start: 3845, Stop: 4615, Start Num: 2

Candidate Starts for Erk16\_7:

(1, 3761), (Start: 2 @3845 has 16 MA's), (3, 3911), (4, 4079), (5, 4169), (6, 4205), (7, 4310), (8, 4352), (9, 4400), (10, 4409), (11, 4448), (12, 4511),

Gene: Giuseppe\_7 Start: 3828, Stop: 4598, Start Num: 2

Candidate Starts for Giuseppe\_7:

(1, 3744), (Start: 2 @3828 has 16 MA's), (3, 3894), (4, 4062), (5, 4152), (6, 4188), (7, 4293), (8, 4335), (9, 4383), (10, 4392), (11, 4431), (12, 4494),

Gene: Helpful\_7 Start: 3836, Stop: 4606, Start Num: 2

Candidate Starts for Helpful\_7:

(1, 3752), (Start: 2 @3836 has 16 MA's), (3, 3902), (4, 4070), (5, 4160), (6, 4196), (7, 4301), (8, 4343), (9, 4391), (10, 4400), (11, 4439), (12, 4502),

Gene: Mopey\_7 Start: 3836, Stop: 4606, Start Num: 2

Candidate Starts for Mopey\_7:

(1, 3752), (Start: 2 @3836 has 16 MA's), (3, 3902), (4, 4070), (5, 4160), (6, 4196), (7, 4301), (8, 4343), (9, 4391), (10, 4400), (11, 4439), (12, 4502),

Gene: PBI1\_7 Start: 3773, Stop: 4543, Start Num: 2

Candidate Starts for PBI1\_7:

(1, 3689), (Start: 2 @3773 has 16 MA's), (3, 3839), (4, 4007), (5, 4097), (6, 4133), (7, 4238), (8, 4280), (9, 4328), (10, 4337), (11, 4376), (12, 4439),

Gene: PLOT\_7 Start: 3845, Stop: 4615, Start Num: 2

Candidate Starts for PLOT\_7:

(1, 3761), (Start: 2 @3845 has 16 MA's), (3, 3911), (4, 4079), (5, 4169), (6, 4205), (7, 4310), (8, 4352), (9, 4400), (10, 4409), (11, 4448), (12, 4511),

Gene: Penelope2018\_7 Start: 3836, Stop: 4606, Start Num: 2

Candidate Starts for Penelope2018\_7:

(1, 3752), (Start: 2 @3836 has 16 MA's), (3, 3902), (4, 4070), (5, 4160), (6, 4196), (7, 4301), (8, 4343), (9, 4391), (10, 4400), (11, 4439), (12, 4502),

Gene: Prager\_7 Start: 3845, Stop: 4615, Start Num: 2

Candidate Starts for Prager\_7:

(1, 3761), (Start: 2 @3845 has 16 MA's), (3, 3911), (4, 4079), (5, 4169), (6, 4205), (7, 4310), (8, 4352), (9, 4400), (10, 4409), (11, 4448), (12, 4511),

Gene: Thoth\_7 Start: 3833, Stop: 4603, Start Num: 2

Candidate Starts for Thoth\_7:

(1, 3749), (Start: 2 @3833 has 16 MA's), (3, 3899), (4, 4067), (5, 4157), (6, 4193), (7, 4298), (8, 4340), (9, 4388), (10, 4397), (11, 4436), (12, 4499),

Gene: Troll4\_7 Start: 3837, Stop: 4607, Start Num: 2

Candidate Starts for Troll4\_7:

(1, 3753), (Start: 2 @3837 has 16 MA's), (3, 3903), (4, 4071), (5, 4161), (6, 4197), (7, 4302), (8, 4344), (9, 4392), (10, 4401), (11, 4440), (12, 4503),

Gene: Visconti\_7 Start: 3846, Stop: 4616, Start Num: 2

Candidate Starts for Visconti\_7:

(1, 3762), (Start: 2 @3846 has 16 MA's), (3, 3912), (4, 4080), (5, 4170), (6, 4206), (7, 4311), (8, 4353), (9, 4401), (10, 4410), (11, 4449), (12, 4512),

Gene: WaldoWhy\_7 Start: 3839, Stop: 4609, Start Num: 2

Candidate Starts for WaldoWhy\_7:

(1, 3755), (Start: 2 @3839 has 16 MA's), (3, 3905), (4, 4073), (5, 4163), (6, 4199), (7, 4304), (8, 4346), (9, 4394), (10, 4403), (11, 4442), (12, 4505),