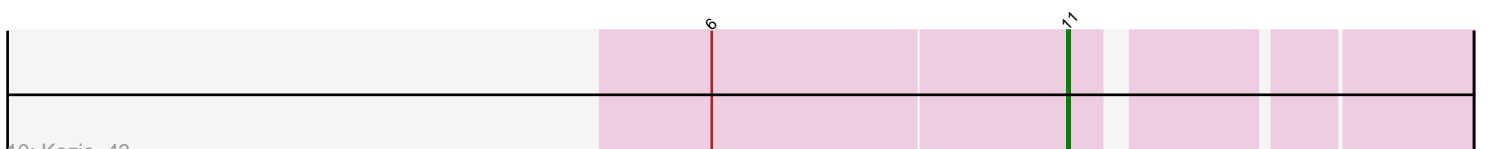
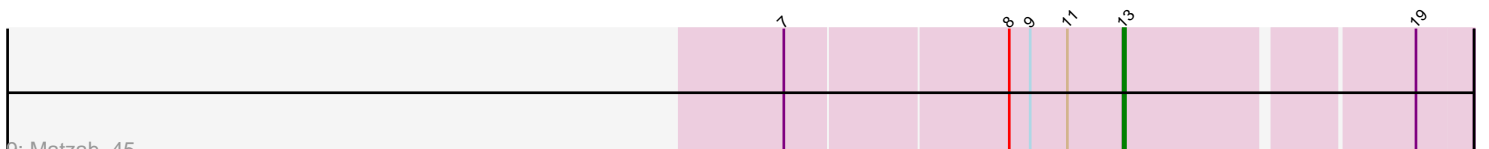
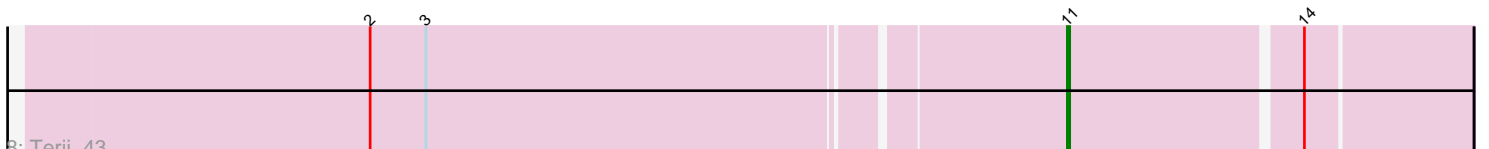
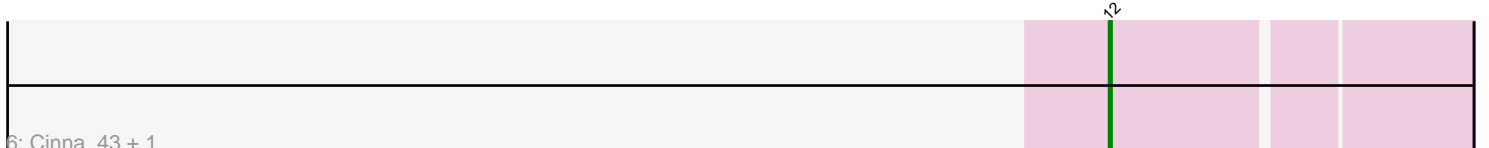
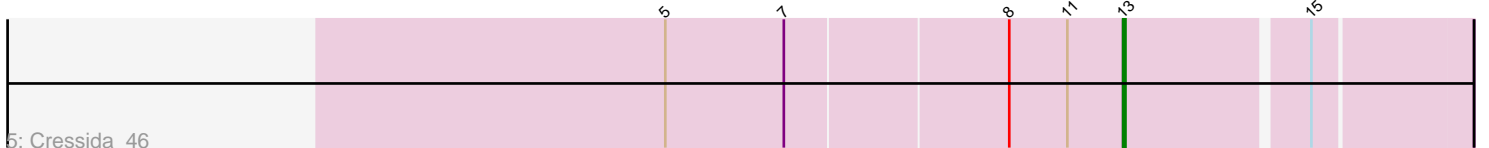
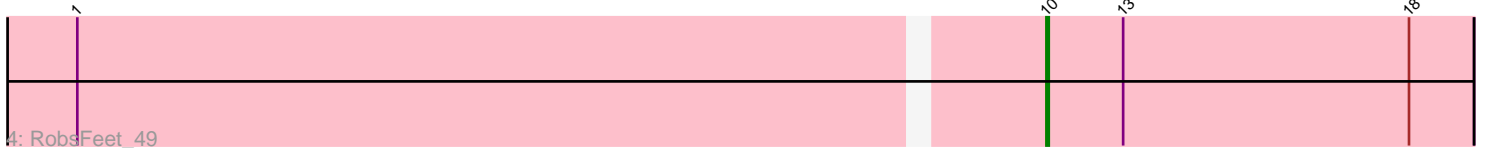
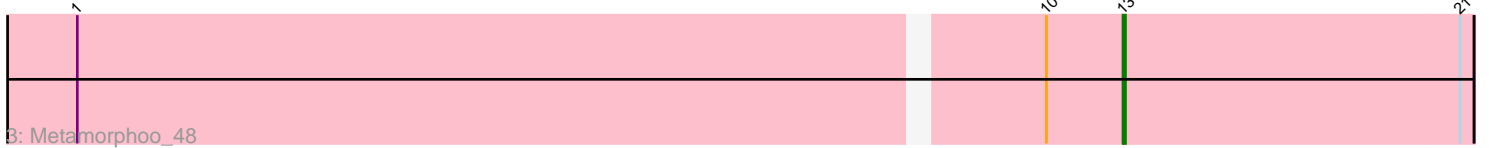
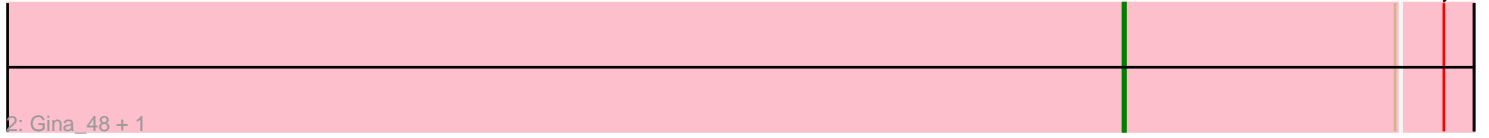
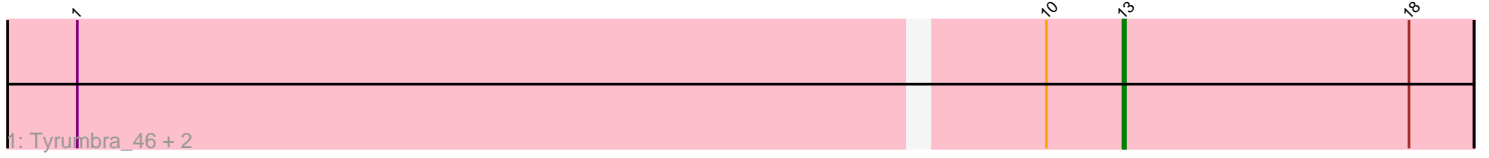


Pham 218414



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 218414 Report

This analysis was run 03/28/25 on database version 593.

Pham number 218414 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Tyrumbra_46, Shrubaron_48, Fireman_48
- Track 2 : Gina_48, Teamocil_48
- Track 3 : Metamorphoo_48
- Track 4 : RobsFeet_49
- Track 5 : Cressida_46
- Track 6 : Cinna_43, MementoMori_44
- Track 7 : Margaery_42
- Track 8 : Terij_43
- Track 9 : Matzah_45
- Track 10 : Kozie_43

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

The start number called the most often in the published annotations is 13, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cressida_46, Fireman_48, Gina_48, Matzah_45, Metamorphoo_48, Shrubaron_48, Teamocil_48, Tyrumbra_46,

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

- RobsFeet_49,

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

- Cinna_43, Kozie_43, Margaery_42, MementoMori_44, Terij_43,

Summary by start number:

Start 10:

- Found in 5 of 14 (35.7%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 20.0% of time when present
- Phage (with cluster) where this start called: RobsFeet_49 (EC),

Start 11:

- Found in 5 of 14 (35.7%) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Kozie_43 (EI), Margaery_42 (EI), Terij_43 (EI),

Start 12:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna_43 (EI), MementoMori_44 (EI),

Start 13:

- Found in 9 of 14 (64.3%) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Cressida_46 (EI), Fireman_48 (EC), Gina_48 (EC), Matzah_45 (EI), Metamorphoo_48 (EC), Shrubaron_48 (EC), Teamocil_48 (EC), Tyrumbra_46 (EC),

Summary by clusters:

There are 2 clusters represented in this pham: EI, EC,

Info for manual annotations of cluster EC:

- Start number 10 was manually annotated 1 time for cluster EC.
- Start number 13 was manually annotated 5 times for cluster EC.

Info for manual annotations of cluster EI:

- Start number 11 was manually annotated 3 times for cluster EI.
- Start number 12 was manually annotated 2 times for cluster EI.
- Start number 13 was manually annotated 2 times for cluster EI.

Gene Information:

Gene: Cinna_43 Start: 32599, Stop: 32745, Start Num: 12

Candidate Starts for Cinna_43:

(Start: 12 @32599 has 2 MA's),

Gene: Cressida_46 Start: 32230, Stop: 32370, Start Num: 13

Candidate Starts for Cressida_46:

(5, 32038), (7, 32089), (8, 32182), (Start: 11 @32206 has 3 MA's), (Start: 13 @32230 has 7 MA's), (15, 32305),

Gene: Fireman_48 Start: 33773, Stop: 33922, Start Num: 13

Candidate Starts for Fireman_48:

(1, 33335), (Start: 10 @33740 has 1 MA's), (Start: 13 @33773 has 7 MA's), (18, 33896),

Gene: Gina_48 Start: 31918, Stop: 32064, Start Num: 13

Candidate Starts for Gina_48:

(Start: 13 @31918 has 7 MA's), (17, 32035), (20, 32053),

Gene: Kozie_43 Start: 32123, Stop: 32275, Start Num: 11

Candidate Starts for Kozie_43:

(6, 31973), (Start: 11 @32123 has 3 MA's),

Gene: Margaery_42 Start: 31857, Stop: 31997, Start Num: 11

Candidate Starts for Margaery_42:

(2, 31569), (4, 31599), (Start: 11 @31857 has 3 MA's), (14, 31929), (16, 31938),

Gene: Matzah_45 Start: 32700, Stop: 32840, Start Num: 13

Candidate Starts for Matzah_45:

(7, 32559), (8, 32652), (9, 32661), (Start: 11 @32676 has 3 MA's), (Start: 13 @32700 has 7 MA's), (19, 32817),

Gene: MementoMori_44 Start: 32287, Stop: 32433, Start Num: 12

Candidate Starts for MementoMori_44:

(Start: 12 @32287 has 2 MA's),

Gene: Metamorphoo_48 Start: 33035, Stop: 33184, Start Num: 13

Candidate Starts for Metamorphoo_48:

(1, 32597), (Start: 10 @33002 has 1 MA's), (Start: 13 @33035 has 7 MA's), (21, 33179),

Gene: RobsFeet_49 Start: 33283, Stop: 33465, Start Num: 10

Candidate Starts for RobsFeet_49:

(1, 32878), (Start: 10 @33283 has 1 MA's), (Start: 13 @33316 has 7 MA's), (18, 33439),

Gene: Shrubaron_48 Start: 32950, Stop: 33099, Start Num: 13

Candidate Starts for Shrubaron_48:

(1, 32512), (Start: 10 @32917 has 1 MA's), (Start: 13 @32950 has 7 MA's), (18, 33073),

Gene: Teamocil_48 Start: 32017, Stop: 32163, Start Num: 13

Candidate Starts for Teamocil_48:

(Start: 13 @32017 has 7 MA's), (17, 32134), (20, 32152),

Gene: Terij_43 Start: 31296, Stop: 31460, Start Num: 11

Candidate Starts for Terij_43:

(2, 31008), (3, 31032), (Start: 11 @31296 has 3 MA's), (14, 31392),

Gene: Tyrumbra_46 Start: 33116, Stop: 33265, Start Num: 13

Candidate Starts for Tyrumbra_46:

(1, 32678), (Start: 10 @33083 has 1 MA's), (Start: 13 @33116 has 7 MA's), (18, 33239),