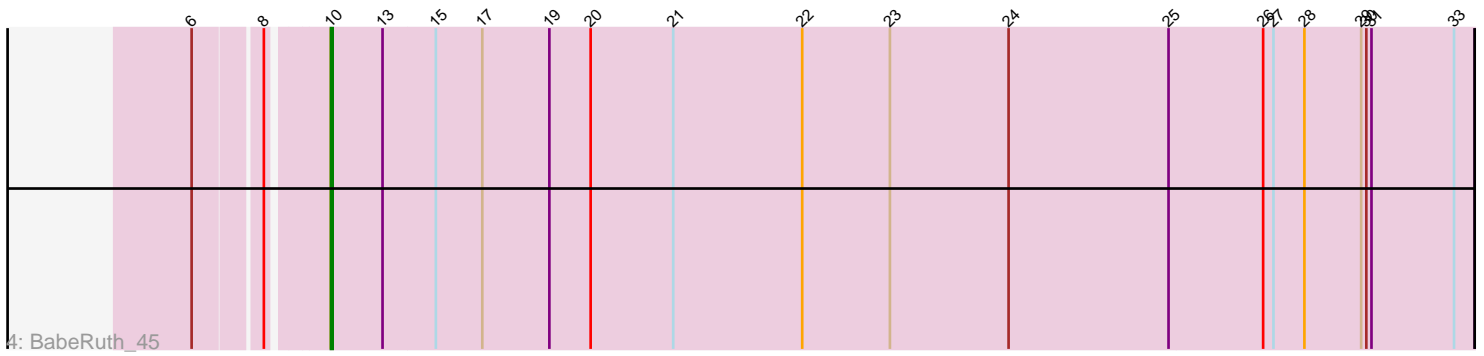
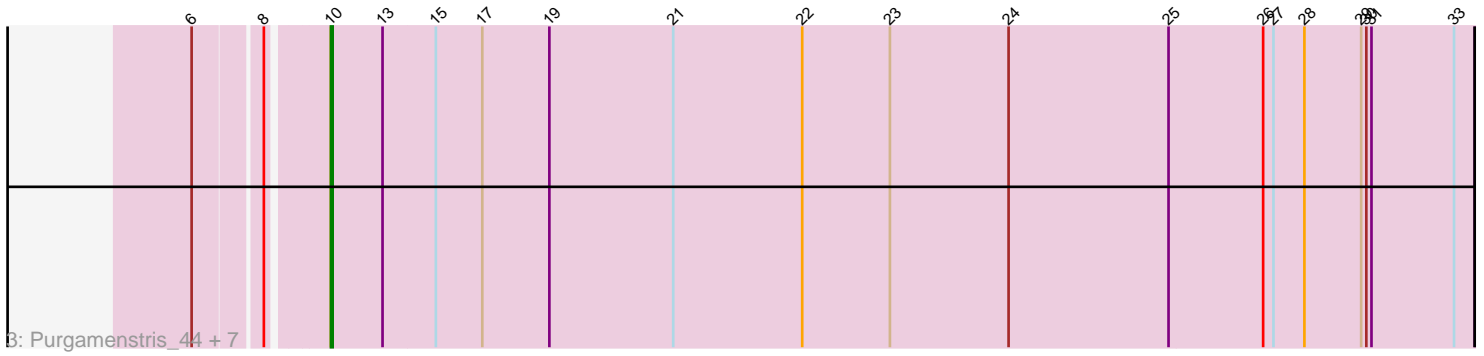
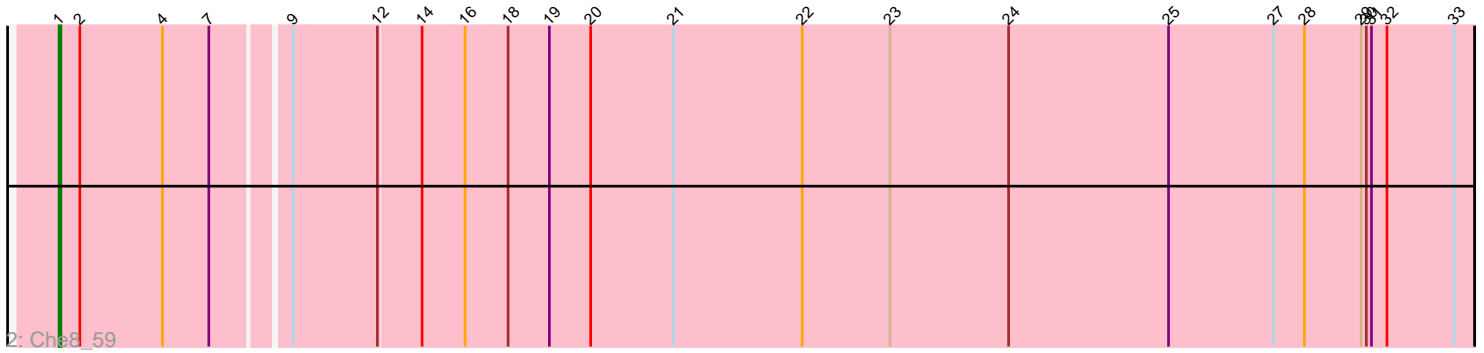
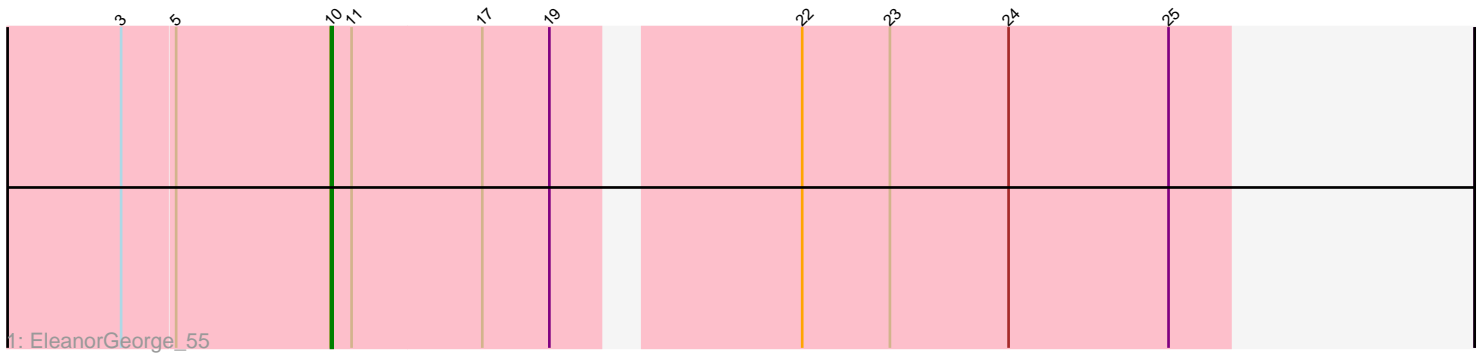


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 182763 Report

This analysis was run 11/02/24 on database version 579.

Pham number 182763 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : EleanorGeorge\_55
- Track 2 : Che8\_59
- Track 3 : Purgamenstris\_44, PhancyPhin\_44, Redi\_44, ShrimpFriedEgg\_44, Hanako\_45, Rebel\_36, Nенаe\_44, Raymond7\_38
- Track 4 : BabeRuth\_45

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

The start number called the most often in the published annotations is 10, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BabeRuth\_45, EleanorGeorge\_55, Hanako\_45, Nенаe\_44, PhancyPhin\_44, Purgamenstris\_44, Raymond7\_38, Rebel\_36, Redi\_44, ShrimpFriedEgg\_44,

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

- 

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

- Che8\_59,

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

Start 1:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Che8\_59 (F1),

Start 10:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present

• Phage (with cluster) where this start called: BabeRuth\_45 (N), EleanorGeorge\_55 (F1), Hanako\_45 (N), Nенаe\_44 (N), PhancyPhin\_44 (N), Purgamenstris\_44 (N), Raymond7\_38 (N), Rebel\_36 (N), Redi\_44 (N), ShrimpFriedEgg\_44 (N),

### **Summary by clusters:**

There are 2 clusters represented in this pham: F1, N,

Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 1 time for cluster F1.
- Start number 10 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster N:

- Start number 10 was manually annotated 8 times for cluster N.

### **Gene Information:**

Gene: BabeRuth\_45 Start: 31045, Stop: 31707, Start Num: 10

Candidate Starts for BabeRuth\_45:

(6, 30979), (8, 31015), (Start: 10 @31045 has 9 MA's), (13, 31075), (15, 31105), (17, 31132), (19, 31171), (20, 31195), (21, 31243), (22, 31318), (23, 31369), (24, 31438), (25, 31531), (26, 31585), (27, 31591), (28, 31609), (29, 31642), (30, 31645), (31, 31648), (33, 31696),

Gene: Che8\_59 Start: 40410, Stop: 41216, Start Num: 1

Candidate Starts for Che8\_59:

(Start: 1 @40410 has 1 MA's), (2, 40422), (4, 40470), (7, 40497), (9, 40536), (12, 40584), (14, 40608), (16, 40632), (18, 40656), (19, 40680), (20, 40704), (21, 40752), (22, 40827), (23, 40878), (24, 40947), (25, 41040), (27, 41100), (28, 41118), (29, 41151), (30, 41154), (31, 41157), (32, 41166), (33, 41205),

Gene: EleanorGeorge\_55 Start: 38731, Stop: 39228, Start Num: 10

Candidate Starts for EleanorGeorge\_55:

(3, 38611), (5, 38641), (Start: 10 @38731 has 9 MA's), (11, 38743), (17, 38818), (19, 38857), (22, 38980), (23, 39031), (24, 39100), (25, 39193),

Gene: Hanako\_45 Start: 31044, Stop: 31706, Start Num: 10

Candidate Starts for Hanako\_45:

(6, 30978), (8, 31014), (Start: 10 @31044 has 9 MA's), (13, 31074), (15, 31104), (17, 31131), (19, 31170), (21, 31242), (22, 31317), (23, 31368), (24, 31437), (25, 31530), (26, 31584), (27, 31590), (28, 31608), (29, 31641), (30, 31644), (31, 31647), (33, 31695),

Gene: Nенаe\_44 Start: 31047, Stop: 31709, Start Num: 10

Candidate Starts for Nенаe\_44:

(6, 30981), (8, 31017), (Start: 10 @31047 has 9 MA's), (13, 31077), (15, 31107), (17, 31134), (19, 31173), (21, 31245), (22, 31320), (23, 31371), (24, 31440), (25, 31533), (26, 31587), (27, 31593), (28, 31611), (29, 31644), (30, 31647), (31, 31650), (33, 31698),

Gene: PhancyPhin\_44 Start: 31041, Stop: 31703, Start Num: 10

Candidate Starts for PhancyPhin\_44:

(6, 30975), (8, 31011), (Start: 10 @31041 has 9 MA's), (13, 31071), (15, 31101), (17, 31128), (19, 31167), (21, 31239), (22, 31314), (23, 31365), (24, 31434), (25, 31527), (26, 31581), (27, 31587), (28, 31605), (29, 31638), (30, 31641), (31, 31644), (33, 31692),

Gene: Purgamenstris\_44 Start: 31045, Stop: 31707, Start Num: 10

Candidate Starts for Purgamenstris\_44:

(6, 30979), (8, 31015), (Start: 10 @31045 has 9 MA's), (13, 31075), (15, 31105), (17, 31132), (19, 31171), (21, 31243), (22, 31318), (23, 31369), (24, 31438), (25, 31531), (26, 31585), (27, 31591), (28, 31609), (29, 31642), (30, 31645), (31, 31648), (33, 31696),

Gene: Raymond7\_38 Start: 30857, Stop: 31495, Start Num: 10

Candidate Starts for Raymond7\_38:

(6, 30791), (8, 30827), (Start: 10 @30857 has 9 MA's), (13, 30887), (15, 30917), (17, 30944), (19, 30983), (21, 31031), (22, 31106), (23, 31157), (24, 31226), (25, 31319), (26, 31373), (27, 31379), (28, 31397), (29, 31430), (30, 31433), (31, 31436), (33, 31484),

Gene: Rebel\_36 Start: 27175, Stop: 27837, Start Num: 10

Candidate Starts for Rebel\_36:

(6, 27109), (8, 27145), (Start: 10 @27175 has 9 MA's), (13, 27205), (15, 27235), (17, 27262), (19, 27301), (21, 27373), (22, 27448), (23, 27499), (24, 27568), (25, 27661), (26, 27715), (27, 27721), (28, 27739), (29, 27772), (30, 27775), (31, 27778), (33, 27826),

Gene: Redi\_44 Start: 31044, Stop: 31706, Start Num: 10

Candidate Starts for Redi\_44:

(6, 30978), (8, 31014), (Start: 10 @31044 has 9 MA's), (13, 31074), (15, 31104), (17, 31131), (19, 31170), (21, 31242), (22, 31317), (23, 31368), (24, 31437), (25, 31530), (26, 31584), (27, 31590), (28, 31608), (29, 31641), (30, 31644), (31, 31647), (33, 31695),

Gene: ShrimpFriedEgg\_44 Start: 31044, Stop: 31706, Start Num: 10

Candidate Starts for ShrimpFriedEgg\_44:

(6, 30978), (8, 31014), (Start: 10 @31044 has 9 MA's), (13, 31074), (15, 31104), (17, 31131), (19, 31170), (21, 31242), (22, 31317), (23, 31368), (24, 31437), (25, 31530), (26, 31584), (27, 31590), (28, 31608), (29, 31641), (30, 31644), (31, 31647), (33, 31695),