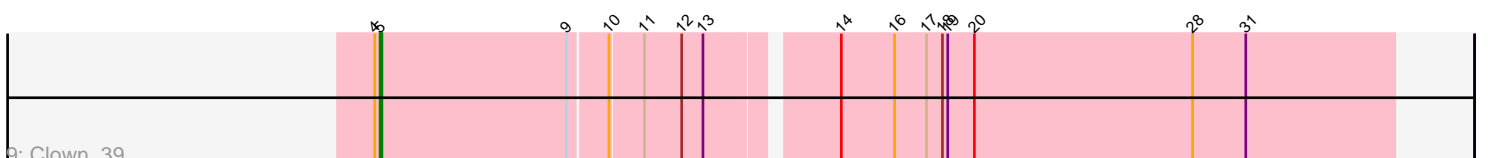
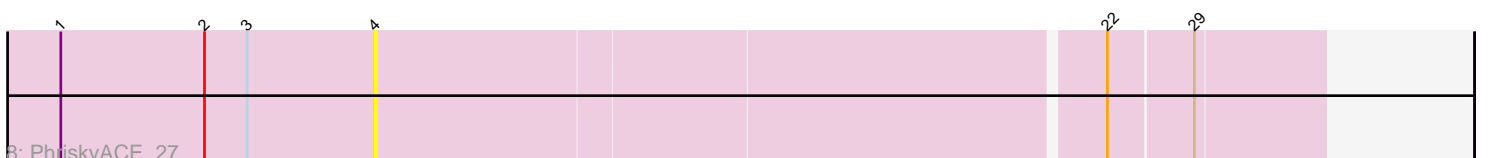
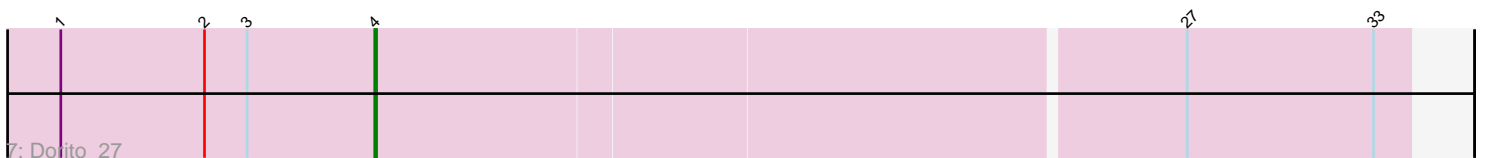
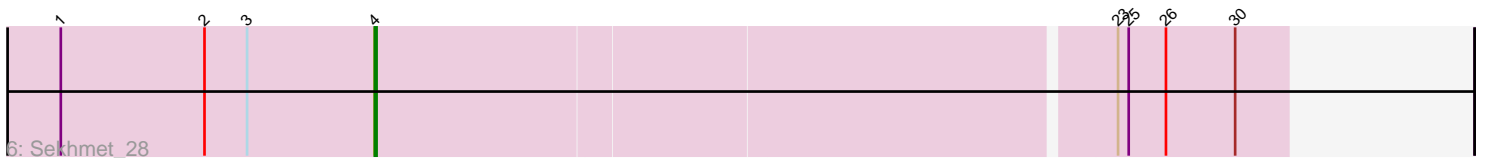
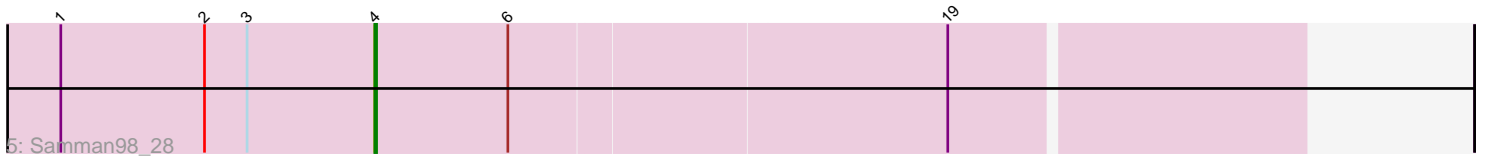
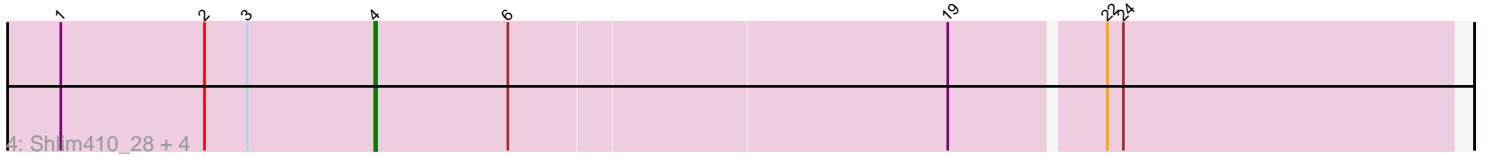
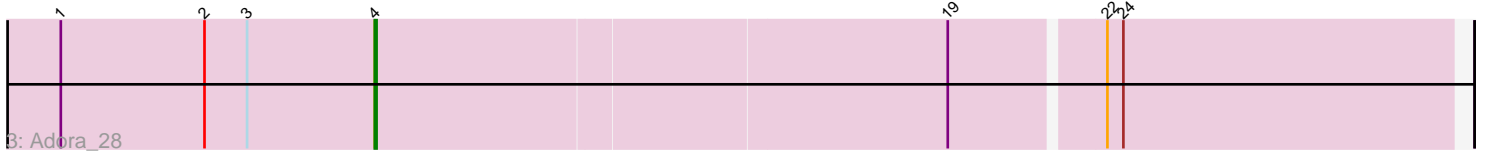
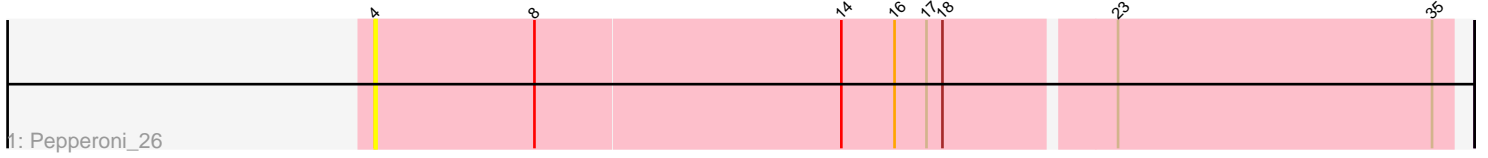


Pham 170391



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 170391 Report

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

Pham number 170391 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Pepperoni_26
- Track 2 : Easley_28, WinkNick_28
- Track 3 : Adora_28
- Track 4 : Shlim410_28, Twinkle_28, Hortense_28, Mcklovin_28, Howe_28
- Track 5 : Samman98_28
- Track 6 : Sekhmet_28
- Track 7 : Dorito_27
- Track 8 : PhriskyACE_27
- Track 9 : Clown_39
- Track 10 : Gudmit_27

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

The start number called the most often in the published annotations is 4, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_28, Dorito_27, Easley_28, Gudmit_27, Hortense_28, Howe_28, Mcklovin_28, Pepperoni_26, PhriskyACE_27, Samman98_28, Sekhmet_28, Shlim410_28, Twinkle_28, WinkNick_28,

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

- Clown_39,

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

-

Summary by start number:

Start 4:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 93.3% of time when present

- Phage (with cluster) where this start called: Adora_28 (CZ4), Dorito_27 (CZ4), Easley_28 (CZ4), Gudmit_27 (singleton), Hortense_28 (CZ4), Howe_28 (CZ4), Mcklovin_28 (CZ4), Pepperoni_26 (CZ), PhriskyACE_27 (CZ4), Samman98_28 (CZ4), Sekhmet_28 (CZ4), Shlim410_28 (CZ4), Twinkle_28 (CZ4), WinkNick_28 (CZ4),

Start 5:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clown_39 (DC2),

Summary by clusters:

There are 4 clusters represented in this pham: CZ, singleton, DC2, CZ4,

Info for manual annotations of cluster CZ4:

- Start number 4 was manually annotated 11 times for cluster CZ4.

Info for manual annotations of cluster DC2:

- Start number 5 was manually annotated 1 time for cluster DC2.

Gene Information:

Gene: Adora_28 Start: 23842, Stop: 24432, Start Num: 4

Candidate Starts for Adora_28:

(1, 23665), (2, 23746), (3, 23770), (Start: 4 @23842 has 12 MA's), (19, 24157), (22, 24238), (24, 24247),

Gene: Clown_39 Start: 32425, Stop: 32979, Start Num: 5

Candidate Starts for Clown_39:

(Start: 4 @32422 has 12 MA's), (Start: 5 @32425 has 1 MA's), (9, 32530), (10, 32551), (11, 32569), (12, 32590), (13, 32602), (14, 32668), (16, 32698), (17, 32716), (18, 32725), (19, 32728), (20, 32743), (28, 32866), (31, 32896),

Gene: Dorito_27 Start: 22746, Stop: 23312, Start Num: 4

Candidate Starts for Dorito_27:

(1, 22569), (2, 22650), (3, 22674), (Start: 4 @22746 has 12 MA's), (27, 23187), (33, 23292),

Gene: Easley_28 Start: 23290, Stop: 23787, Start Num: 4

Candidate Starts for Easley_28:

(1, 23113), (2, 23194), (3, 23218), (Start: 4 @23290 has 12 MA's), (6, 23365), (19, 23605), (23, 23692), (25, 23698), (26, 23719), (30, 23758),

Gene: Gudmit_27 Start: 21597, Stop: 22205, Start Num: 4

Candidate Starts for Gudmit_27:

(2, 21501), (3, 21525), (Start: 4 @21597 has 12 MA's), (7, 21678), (15, 21882), (17, 21906), (21, 21969), (27, 22044), (32, 22128), (34, 22176),

Gene: Hortense_28 Start: 23889, Stop: 24479, Start Num: 4

Candidate Starts for Hortense_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 4 @23889 has 12 MA's), (6, 23964), (19, 24204), (22, 24285), (24, 24294),

Gene: Howe_28 Start: 23889, Stop: 24479, Start Num: 4

Candidate Starts for Howe_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 4 @23889 has 12 MA's), (6, 23964), (19, 24204), (22, 24285), (24, 24294),

Gene: Mcklovin_28 Start: 26058, Stop: 26648, Start Num: 4

Candidate Starts for Mcklovin_28:

(1, 25881), (2, 25962), (3, 25986), (Start: 4 @26058 has 12 MA's), (6, 26133), (19, 26373), (22, 26454), (24, 26463),

Gene: Pepperoni_26 Start: 21851, Stop: 22447, Start Num: 4

Candidate Starts for Pepperoni_26:

(Start: 4 @21851 has 12 MA's), (8, 21941), (14, 22112), (16, 22142), (17, 22160), (18, 22169), (23, 22259), (35, 22436),

Gene: PhriskyACE_27 Start: 22746, Stop: 23258, Start Num: 4

Candidate Starts for PhriskyACE_27:

(1, 22569), (2, 22650), (3, 22674), (Start: 4 @22746 has 12 MA's), (22, 23142), (29, 23187),

Gene: Samman98_28 Start: 23298, Stop: 23804, Start Num: 4

Candidate Starts for Samman98_28:

(1, 23121), (2, 23202), (3, 23226), (Start: 4 @23298 has 12 MA's), (6, 23373), (19, 23613),

Gene: Sekhmet_28 Start: 23658, Stop: 24155, Start Num: 4

Candidate Starts for Sekhmet_28:

(1, 23481), (2, 23562), (3, 23586), (Start: 4 @23658 has 12 MA's), (23, 24060), (25, 24066), (26, 24087), (30, 24126),

Gene: Shlim410_28 Start: 23889, Stop: 24479, Start Num: 4

Candidate Starts for Shlim410_28:

(1, 23712), (2, 23793), (3, 23817), (Start: 4 @23889 has 12 MA's), (6, 23964), (19, 24204), (22, 24285), (24, 24294),

Gene: Twinkle_28 Start: 24948, Stop: 25538, Start Num: 4

Candidate Starts for Twinkle_28:

(1, 24771), (2, 24852), (3, 24876), (Start: 4 @24948 has 12 MA's), (6, 25023), (19, 25263), (22, 25344), (24, 25353),

Gene: WinkNick_28 Start: 23280, Stop: 23777, Start Num: 4

Candidate Starts for WinkNick_28:

(1, 23103), (2, 23184), (3, 23208), (Start: 4 @23280 has 12 MA's), (6, 23355), (19, 23595), (23, 23682), (25, 23688), (26, 23709), (30, 23748),