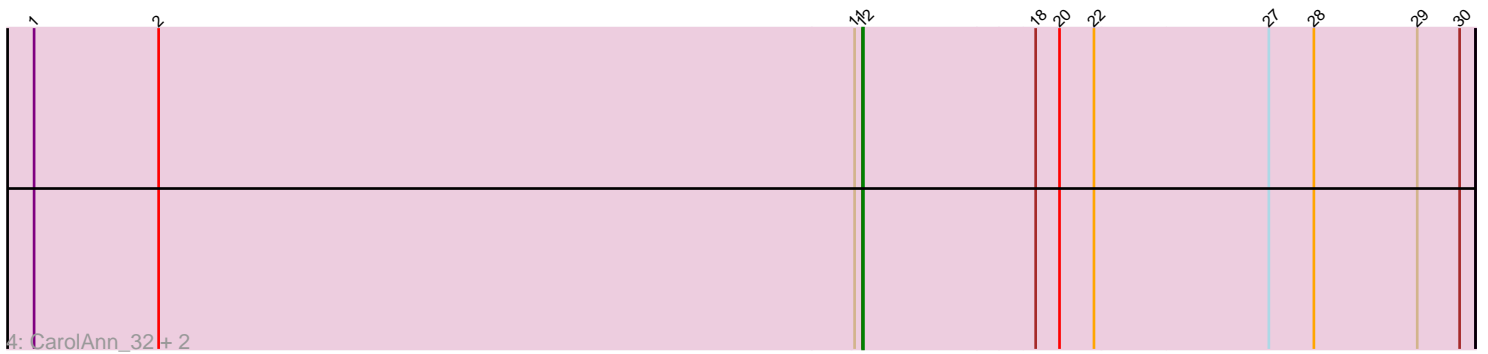
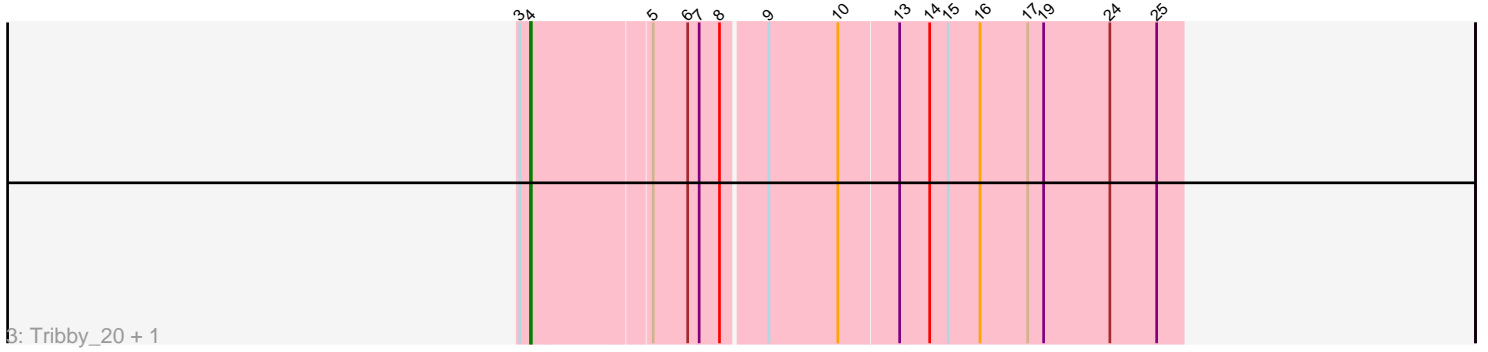
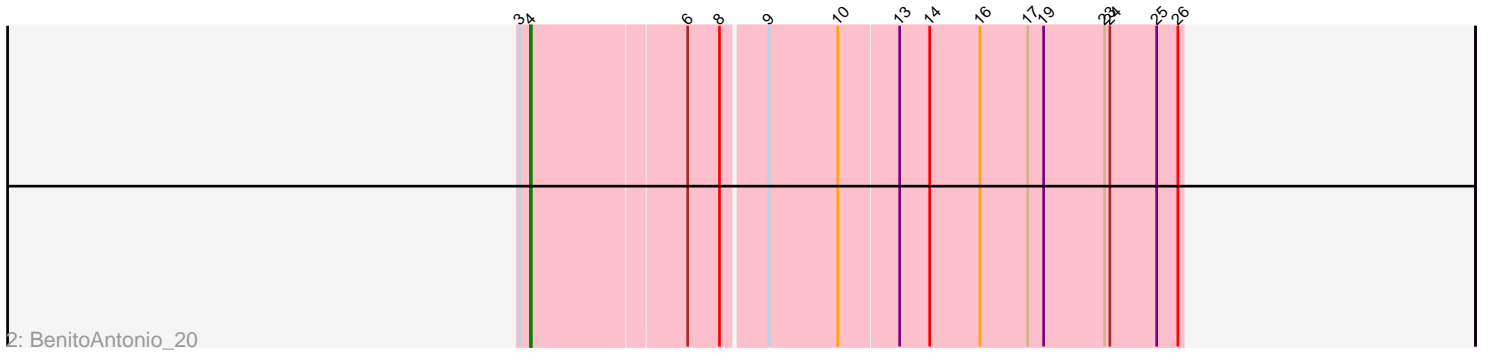
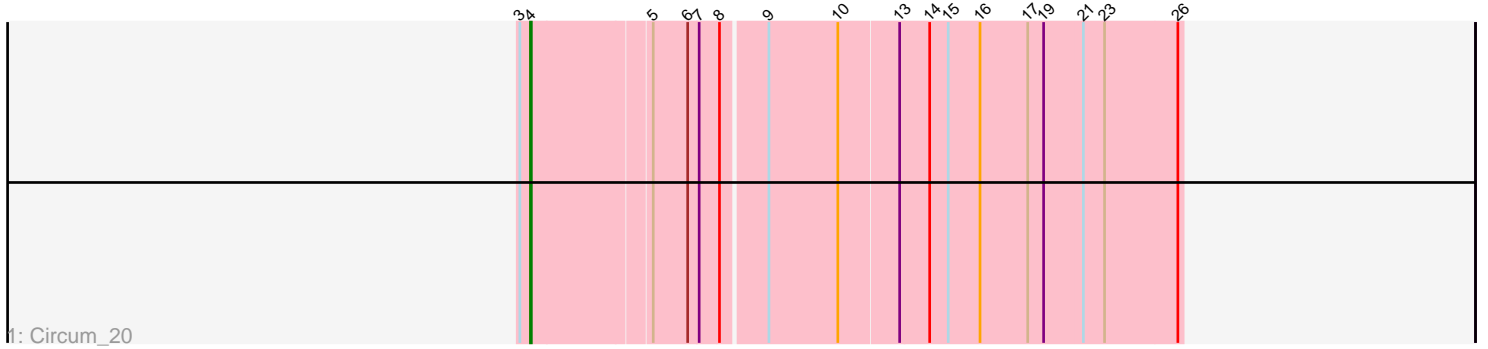


Pham 193160



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 193160 Report

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

Pham number 193160 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Circum_20
- Track 2 : BenitoAntonio_20
- Track 3 : Tribby_20, Cheesy_20
- Track 4 : CarolAnn_32, Blino_32, Lilas_30

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 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BenitoAntonio_20, Cheesy_20, Circum_20, Tribby_20,

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

-

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

- Blino_32, CarolAnn_32, Lilas_30,

Summary by start number:

Start 4:

- Found in 4 of 7 (57.1%) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BenitoAntonio_20 (AM), Cheesy_20 (AM), Circum_20 (AM), Tribby_20 (AM),

Start 12:

- Found in 3 of 7 (42.9%) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blino_32 (CV), CarolAnn_32 (CV), Lilas_30 (CY1),

Summary by clusters:

There are 3 clusters represented in this pham: CY1, AM, CV,

Info for manual annotations of cluster AM:

- Start number 4 was manually annotated 4 times for cluster AM.

Info for manual annotations of cluster CV:

- Start number 12 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 12 was manually annotated 1 time for cluster CY1.

Gene Information:

Gene: BenitoAntonio_20 Start: 16181, Stop: 16888, Start Num: 4

Candidate Starts for BenitoAntonio_20:

(3, 16169), (Start: 4 @16181 has 4 MA's), (6, 16349), (8, 16382), (9, 16430), (10, 16508), (13, 16574), (14, 16607), (16, 16664), (17, 16718), (19, 16736), (23, 16802), (24, 16808), (25, 16859), (26, 16883),

Gene: Blino_32 Start: 27487, Stop: 28173, Start Num: 12

Candidate Starts for Blino_32:

(1, 26551), (2, 26692), (11, 27478), (Start: 12 @27487 has 3 MA's), (18, 27679), (20, 27706), (22, 27745), (27, 27940), (28, 27991), (29, 28108), (30, 28156),

Gene: CarolAnn_32 Start: 27486, Stop: 28172, Start Num: 12

Candidate Starts for CarolAnn_32:

(1, 26550), (2, 26691), (11, 27477), (Start: 12 @27486 has 3 MA's), (18, 27678), (20, 27705), (22, 27744), (27, 27939), (28, 27990), (29, 28107), (30, 28155),

Gene: Cheesy_20 Start: 16279, Stop: 16986, Start Num: 4

Candidate Starts for Cheesy_20:

(3, 16267), (Start: 4 @16279 has 4 MA's), (5, 16408), (6, 16447), (7, 16459), (8, 16480), (9, 16528), (10, 16606), (13, 16672), (14, 16705), (15, 16726), (16, 16762), (17, 16816), (19, 16834), (24, 16906), (25, 16957),

Gene: Circum_20 Start: 16286, Stop: 16993, Start Num: 4

Candidate Starts for Circum_20:

(3, 16274), (Start: 4 @16286 has 4 MA's), (5, 16415), (6, 16454), (7, 16466), (8, 16487), (9, 16535), (10, 16613), (13, 16679), (14, 16712), (15, 16733), (16, 16769), (17, 16823), (19, 16841), (21, 16883), (23, 16907), (26, 16988),

Gene: Lilas_30 Start: 26682, Stop: 27368, Start Num: 12

Candidate Starts for Lilas_30:

(1, 25746), (2, 25887), (11, 26673), (Start: 12 @26682 has 3 MA's), (18, 26874), (20, 26901), (22, 26940), (27, 27135), (28, 27186), (29, 27303), (30, 27351),

Gene: Tribby_20 Start: 16279, Stop: 16986, Start Num: 4

Candidate Starts for Tribby_20:

(3, 16267), (Start: 4 @16279 has 4 MA's), (5, 16408), (6, 16447), (7, 16459), (8, 16480), (9, 16528),
(10, 16606), (13, 16672), (14, 16705), (15, 16726), (16, 16762), (17, 16816), (19, 16834), (24, 16906),
(25, 16957),