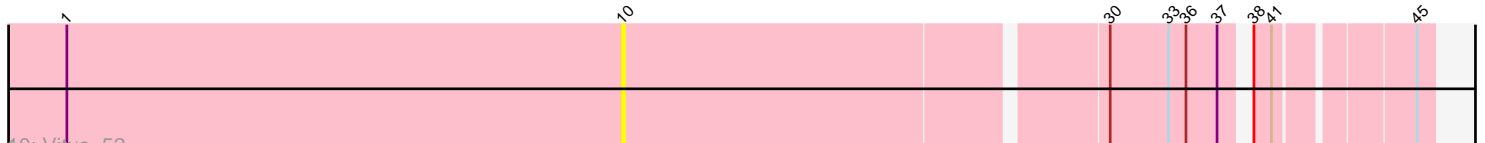
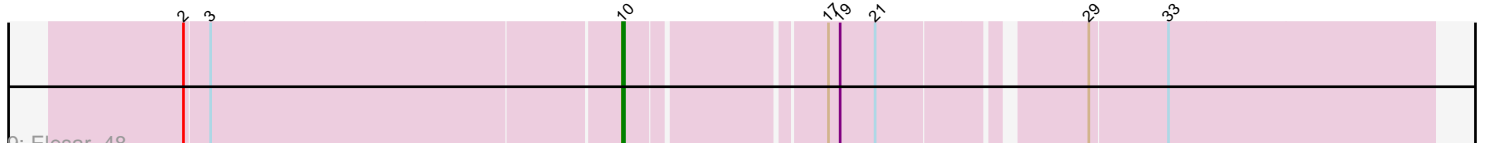
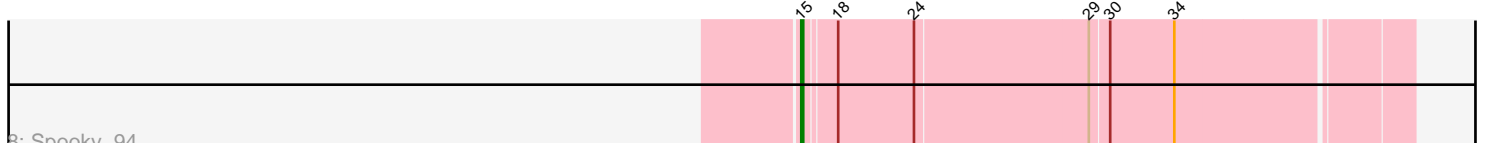
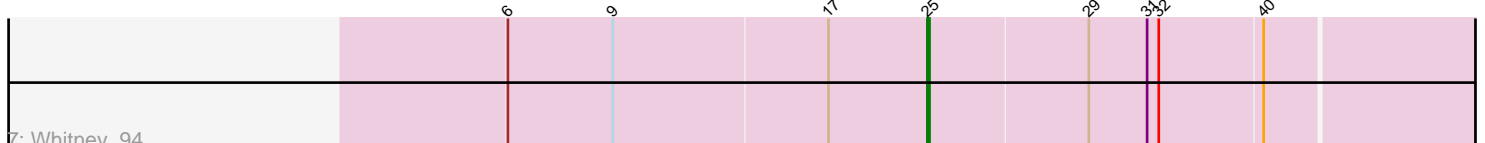
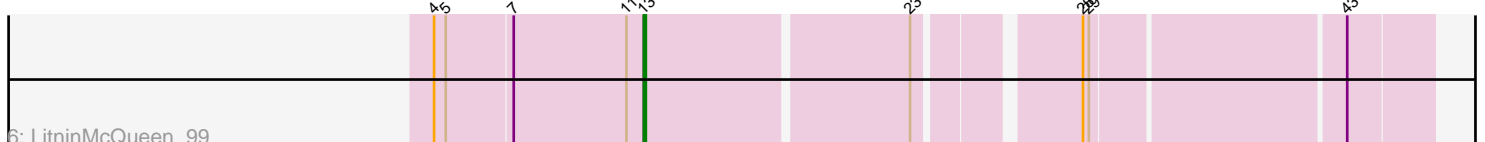
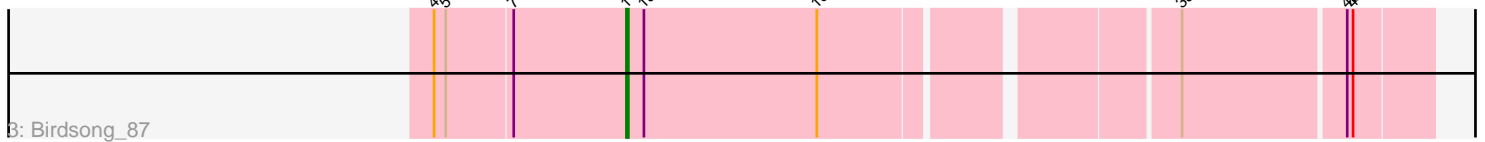
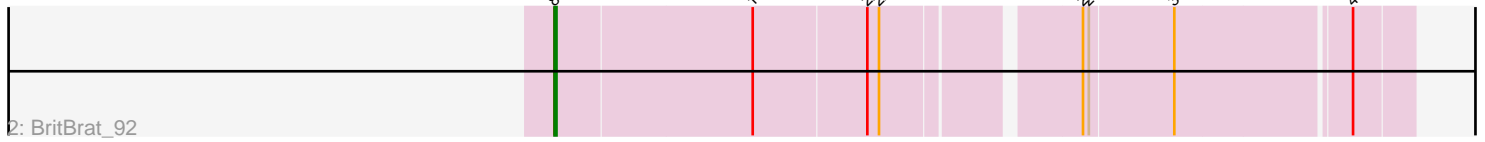
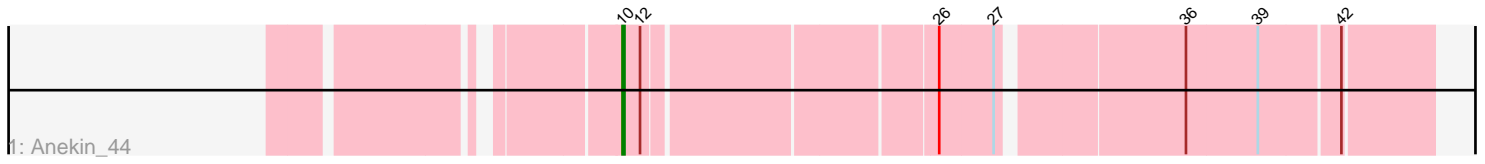


Pham 225059



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 225059 Report

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

Pham number 225059 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Anekin_44
- Track 2 : BritBrat_92
- Track 3 : Birdsong_87
- Track 4 : Phabuloso_101
- Track 5 : ShawBrad_98, Asapag_87
- Track 6 : LitninMcQueen_99
- Track 7 : Whitney_94
- Track 8 : Spooky_94
- Track 9 : Elesar_48
- Track 10 : Vitus_52

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 3 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag_87, LitninMcQueen_99, Phabuloso_101, ShawBrad_98,

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

- Birdsong_87,

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

- Anekin_44, BritBrat_92, Elesar_48, Spooky_94, Vitus_52, Whitney_94,

Summary by start number:

Start 8:

- Found in 1 of 11 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat_92 (CY2),

Start 10:

- Found in 3 of 11 (27.3%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anekin_44 (AY), Elesar_48 (FF), Vitus_52 (FL),

Start 11:

- Found in 5 of 11 (45.5%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Birdsong_87 (DN),

Start 13:

- Found in 5 of 11 (45.5%) of genes in pham
- Manual Annotations of this start: 3 of 9
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Asapag_87 (DN1), LitninMcQueen_99 (DN1), Phabuloso_101 (DN1), ShawBrad_98 (DN1),

Start 15:

- Found in 1 of 11 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spooky_94 (DN2),

Start 25:

- Found in 1 of 11 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Whitney_94 (DN1),

Summary by clusters:

There are 7 clusters represented in this pham: DN, CY2, DN1, FF, DN2, AY, FL,

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster CY2:

- Start number 8 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DN:

- Start number 11 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 13 was manually annotated 3 times for cluster DN1.
- Start number 25 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 15 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster FF:

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

Gene Information:

Gene: Anekin_44 Start: 29811, Stop: 30191, Start Num: 10

Candidate Starts for Anekin_44:

(Start: 10 @29811 has 2 MA's), (12, 29820), (26, 29958), (27, 29985), (36, 30072), (39, 30108), (42, 30147),

Gene: Asapag_87 Start: 50042, Stop: 50416, Start Num: 13

Candidate Starts for Asapag_87:

(4, 49937), (5, 49943), (7, 49976), (Start: 11 @50033 has 1 MA's), (Start: 13 @50042 has 3 MA's), (16, 50129), (35, 50294), (43, 50375), (44, 50378),

Gene: Birdsong_87 Start: 49769, Stop: 50152, Start Num: 11

Candidate Starts for Birdsong_87:

(4, 49673), (5, 49679), (7, 49712), (Start: 11 @49769 has 1 MA's), (Start: 13 @49778 has 3 MA's), (16, 49865), (35, 50030), (43, 50111), (44, 50114),

Gene: BritBrat_92 Start: 52968, Stop: 53378, Start Num: 8

Candidate Starts for BritBrat_92:

(Start: 8 @52968 has 1 MA's), (14, 53067), (20, 53124), (22, 53130), (28, 53220), (29, 53223), (34, 53265), (44, 53349),

Gene: Elesar_48 Start: 36967, Stop: 37350, Start Num: 10

Candidate Starts for Elesar_48:

(2, 36751), (3, 36763), (Start: 10 @36967 has 2 MA's), (17, 37060), (19, 37066), (21, 37084), (29, 37177), (33, 37216),

Gene: LitninMcQueen_99 Start: 52545, Stop: 52913, Start Num: 13

Candidate Starts for LitninMcQueen_99:

(4, 52440), (5, 52446), (7, 52479), (Start: 11 @52536 has 1 MA's), (Start: 13 @52545 has 3 MA's), (23, 52674), (28, 52746), (29, 52749), (43, 52872),

Gene: Phabuloso_101 Start: 52179, Stop: 52547, Start Num: 13

Candidate Starts for Phabuloso_101:

(4, 52074), (5, 52080), (7, 52113), (Start: 11 @52170 has 1 MA's), (Start: 13 @52179 has 3 MA's), (23, 52308), (29, 52383), (43, 52506),

Gene: ShawBrad_98 Start: 50296, Stop: 50670, Start Num: 13

Candidate Starts for ShawBrad_98:

(4, 50191), (5, 50197), (7, 50230), (Start: 11 @50287 has 1 MA's), (Start: 13 @50296 has 3 MA's), (16, 50383), (35, 50548), (43, 50629), (44, 50632),

Gene: Spooky_94 Start: 51519, Stop: 51815, Start Num: 15

Candidate Starts for Spooky_94:

(Start: 15 @51519 has 1 MA's), (18, 51534), (24, 51573), (29, 51660), (30, 51669), (34, 51702),

Gene: Vitus_52 Start: 37944, Stop: 38321, Start Num: 10

Candidate Starts for Vitus_52:

(1, 37659), (Start: 10 @37944 has 2 MA's), (30, 38178), (33, 38208), (36, 38217), (37, 38232), (38, 38241), (41, 38250), (45, 38313),

Gene: Whitney_94 Start: 52783, Stop: 53064, Start Num: 25

Candidate Starts for Whitney_94:

(6, 52570), (9, 52624), (17, 52732), (Start: 25 @52783 has 1 MA's), (29, 52864), (31, 52894), (32, 52900), (40, 52951),