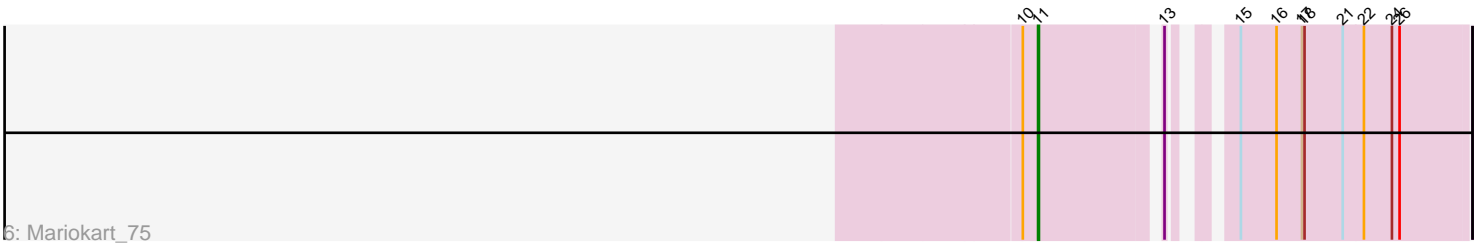
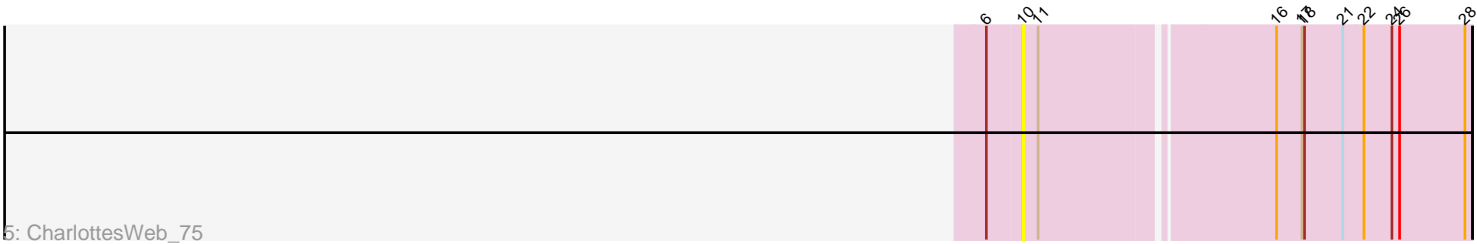
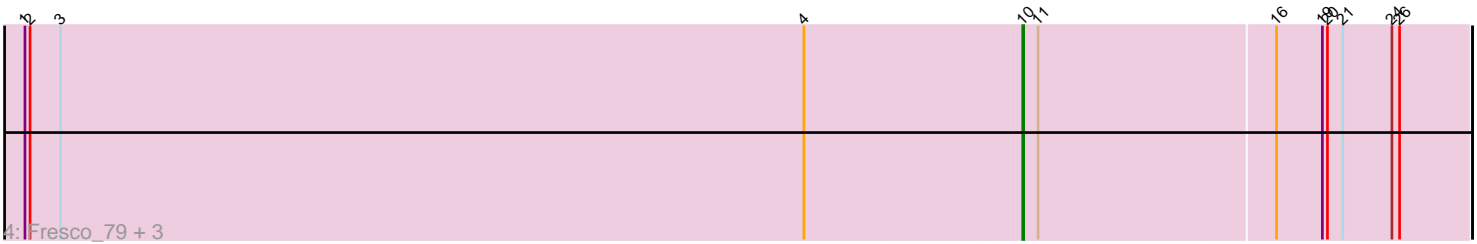
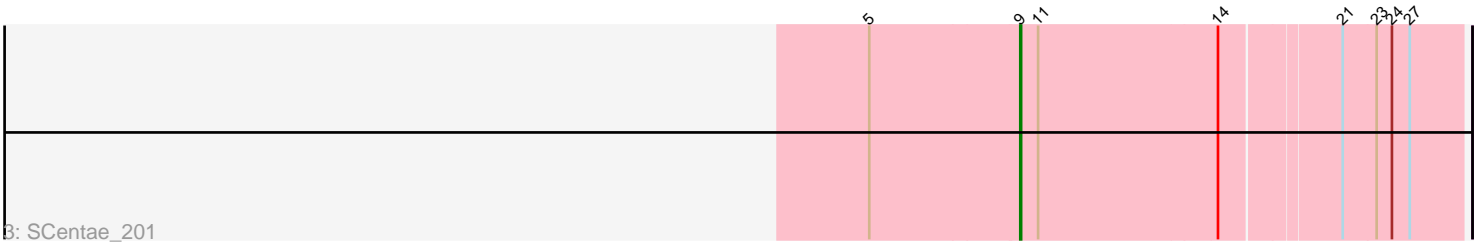
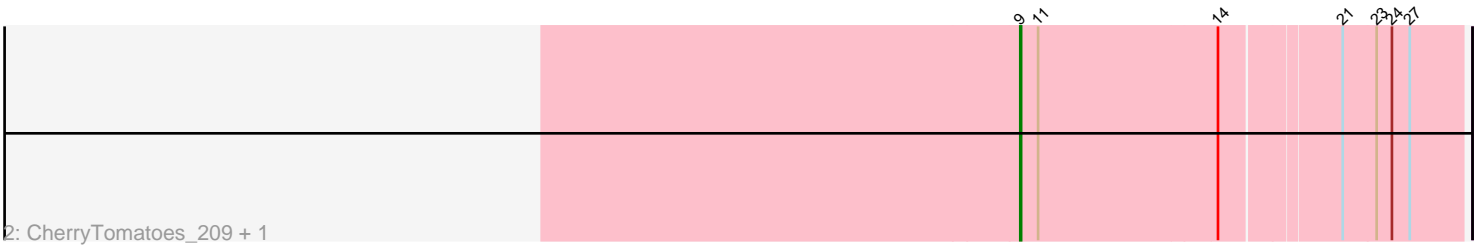
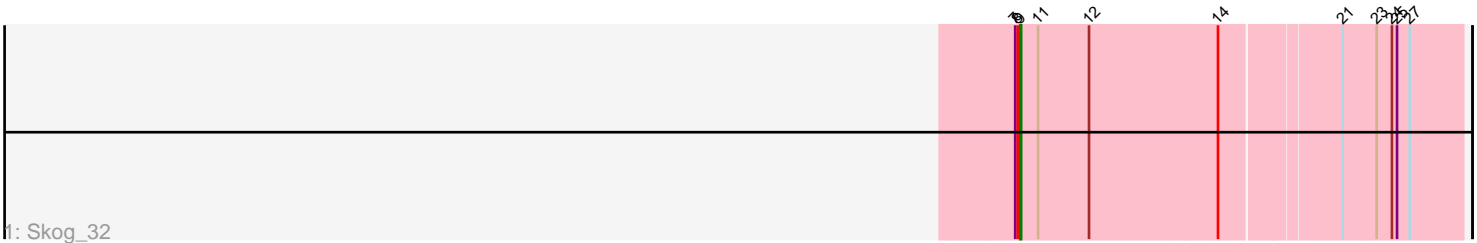


Pham 87873



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 87873 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87873 has 10 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Skog\_32
- Track 2 : CherryTomatoes\_209, Pupper\_202
- Track 3 : SCentae\_201
- Track 4 : Fresco\_79, Axumite\_79, Ligma\_79, Shatter\_79
- Track 5 : CharlottesWeb\_75
- Track 6 : Mariokart\_75

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

The start number called the most often in the published annotations is 9, it was called in 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryTomatoes\_209, Pupper\_202, SCentae\_201, Skog\_32,

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

- 

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

- Axumite\_79, CharlottesWeb\_75, Fresco\_79, Ligma\_79, Mariokart\_75, Shatter\_79,

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

Start 9:

- Found in 4 of 10 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes\_209 (DO), Pupper\_202 (DO), SCentae\_201 (DO), Skog\_32 (DO),

Start 10:

- Found in 6 of 10 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 83.3% of time when present

- Phage (with cluster) where this start called: Axumite\_79 (DR), CharlottesWeb\_75 (DR), Fresco\_79 (DR), Ligma\_79 (DR), Shatter\_79 (DR),

Start 11:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Mariokart\_75 (DR),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DO, DR,

Info for manual annotations of cluster DO:

- Start number 9 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DR:

- Start number 10 was manually annotated 2 times for cluster DR.
- Start number 11 was manually annotated 1 time for cluster DR.

### **Gene Information:**

Gene: Axumite\_79 Start: 58237, Stop: 57722, Start Num: 10

Candidate Starts for Axumite\_79:

(1, 59401), (2, 59395), (3, 59359), (4, 58483), (Start: 10 @58237 has 2 MA's), (Start: 11 @58219 has 1 MA's), (16, 57946), (19, 57892), (20, 57886), (21, 57868), (24, 57811), (26, 57802),

Gene: CharlottesWeb\_75 Start: 56845, Stop: 56345, Start Num: 10

Candidate Starts for CharlottesWeb\_75:

(6, 56884), (Start: 10 @56845 has 2 MA's), (Start: 11 @56827 has 1 MA's), (16, 56572), (17, 56542), (18, 56539), (21, 56494), (22, 56470), (24, 56437), (26, 56428), (28, 56353),

Gene: CherryTomatoes\_209 Start: 139363, Stop: 139863, Start Num: 9

Candidate Starts for CherryTomatoes\_209:

(Start: 9 @139363 has 3 MA's), (Start: 11 @139384 has 1 MA's), (14, 139591), (21, 139723), (23, 139762), (24, 139780), (27, 139801),

Gene: Fresco\_79 Start: 58243, Stop: 57728, Start Num: 10

Candidate Starts for Fresco\_79:

(1, 59407), (2, 59401), (3, 59365), (4, 58489), (Start: 10 @58243 has 2 MA's), (Start: 11 @58225 has 1 MA's), (16, 57952), (19, 57898), (20, 57892), (21, 57874), (24, 57817), (26, 57808),

Gene: Ligma\_79 Start: 58237, Stop: 57722, Start Num: 10

Candidate Starts for Ligma\_79:

(1, 59401), (2, 59395), (3, 59359), (4, 58483), (Start: 10 @58237 has 2 MA's), (Start: 11 @58219 has 1 MA's), (16, 57946), (19, 57892), (20, 57886), (21, 57868), (24, 57811), (26, 57802),

Gene: Mariokart\_75 Start: 57067, Stop: 56636, Start Num: 11

Candidate Starts for Mariokart\_75:

(Start: 10 @57085 has 2 MA's), (Start: 11 @57067 has 1 MA's), (13, 56941), (15, 56899), (16, 56857), (17, 56827), (18, 56824), (21, 56779), (22, 56755), (24, 56722), (26, 56713),

Gene: Pupper\_202 Start: 139225, Stop: 139725, Start Num: 9

Candidate Starts for Pupper\_202:

(Start: 9 @139225 has 3 MA's), (Start: 11 @139246 has 1 MA's), (14, 139453), (21, 139585), (23, 139624), (24, 139642), (27, 139663),

Gene: SCentae\_201 Start: 139416, Stop: 139916, Start Num: 9

Candidate Starts for SCentae\_201:

(5, 139242), (Start: 9 @139416 has 3 MA's), (Start: 11 @139437 has 1 MA's), (14, 139644), (21, 139776), (23, 139815), (24, 139833), (27, 139854),

Gene: Shatter\_79 Start: 58237, Stop: 57722, Start Num: 10

Candidate Starts for Shatter\_79:

(1, 59401), (2, 59395), (3, 59359), (4, 58483), (Start: 10 @58237 has 2 MA's), (Start: 11 @58219 has 1 MA's), (16, 57946), (19, 57892), (20, 57886), (21, 57868), (24, 57811), (26, 57802),

Gene: Skog\_32 Start: 15028, Stop: 15528, Start Num: 9

Candidate Starts for Skog\_32:

(7, 15022), (8, 15025), (Start: 9 @15028 has 3 MA's), (Start: 11 @15049 has 1 MA's), (12, 15109), (14, 15256), (21, 15388), (23, 15427), (24, 15445), (25, 15451), (27, 15466),