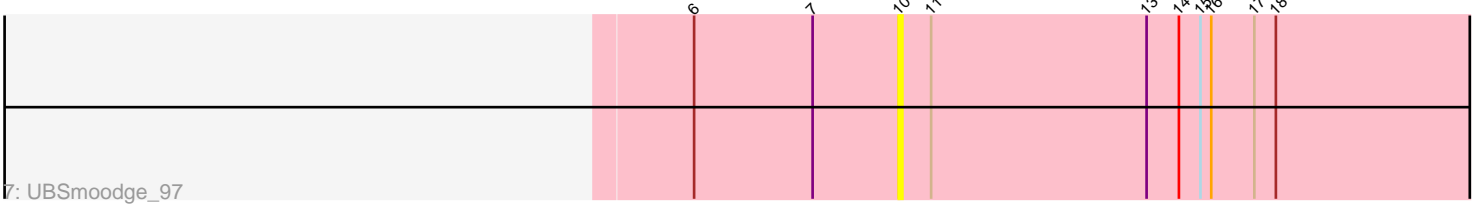
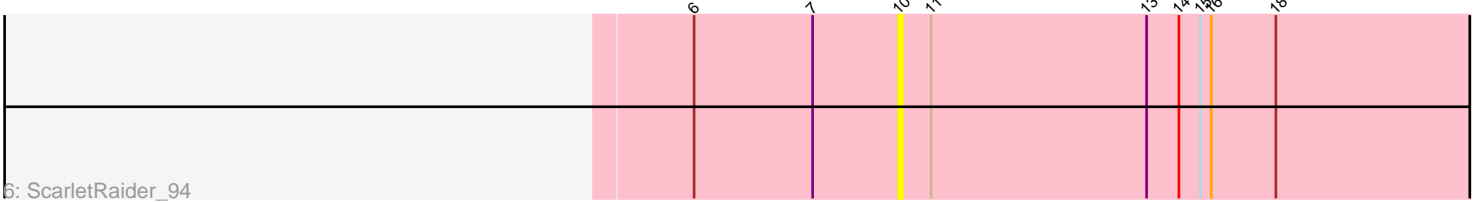
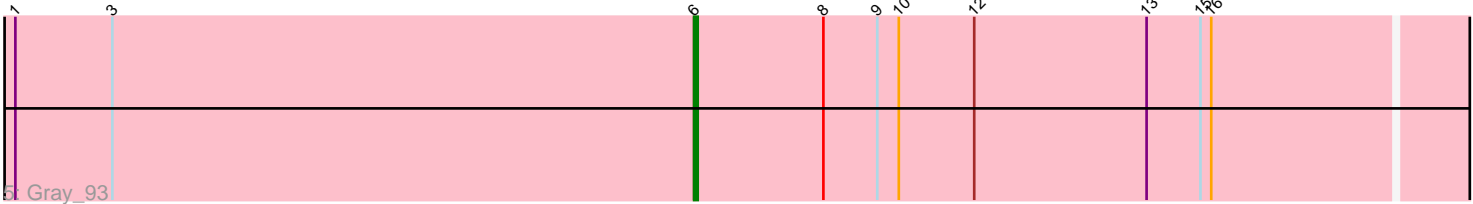
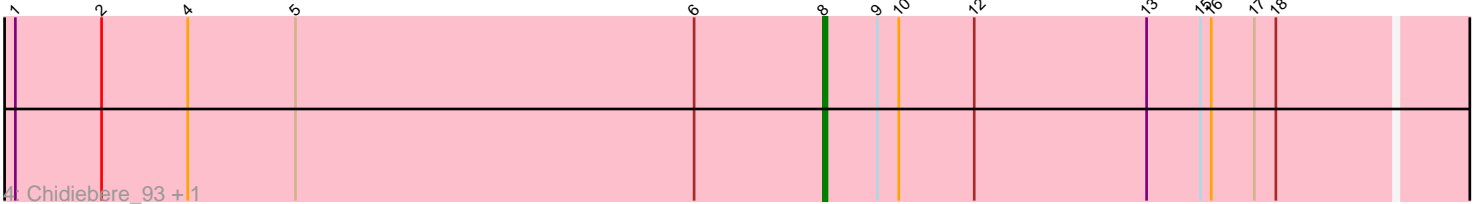
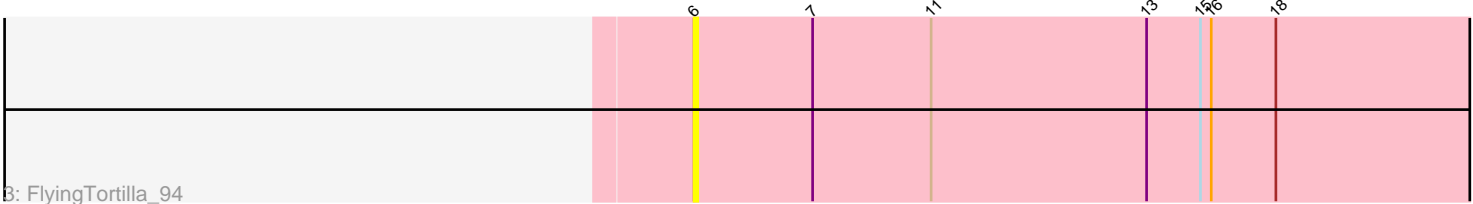
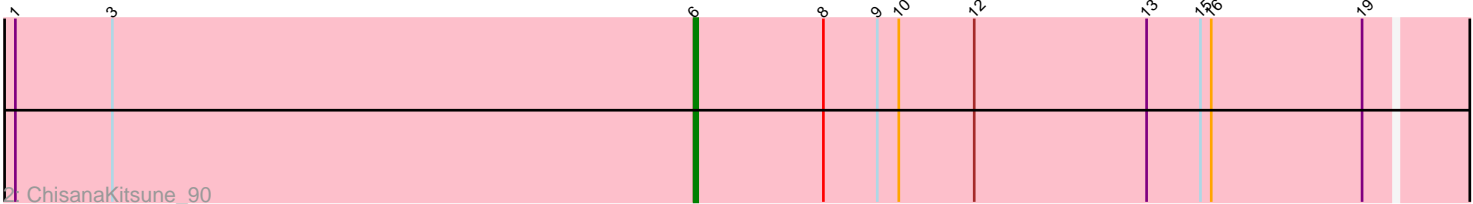
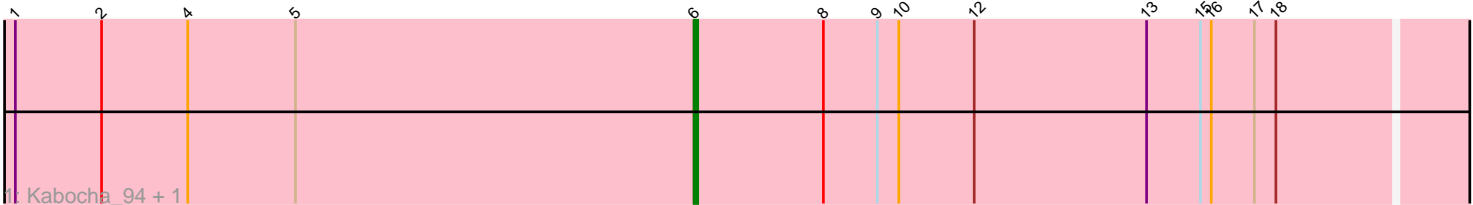


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 11531 Report

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

Pham number 11531 has 9 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Kabocha\_94, Schomber\_91
- Track 2 : ChisanaKitsune\_90
- Track 3 : FlyingTortilla\_94
- Track 4 : Chidiebere\_93, Hanem\_92
- Track 5 : Gray\_93
- Track 6 : ScarletRaider\_94
- Track 7 : UBSmoodge\_97

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

The start number called the most often in the published annotations is 6, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ChisanaKitsune\_90, FlyingTortilla\_94, Gray\_93, Kabocha\_94, Schomber\_91,

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

- Chidiebere\_93, Hanem\_92, ScarletRaider\_94, UBSmoodge\_97,

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

- 

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

Start 6:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 6
- Called 55.6% of time when present
- Phage (with cluster) where this start called: ChisanaKitsune\_90 (DQ), FlyingTortilla\_94 (DQ), Gray\_93 (DQ), Kabocha\_94 (DQ), Schomber\_91 (DQ),

Start 8:

- Found in 6 of 9 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 2 of 6

- Called 33.3% of time when present
- Phage (with cluster) where this start called: Chidiebere\_93 (DQ), Hanem\_92 (DQ),

Start 10:

- Found in 8 of 9 ( 88.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: ScarletRaider\_94 (DQ), UBSmoodge\_97 (DQ),

### **Summary by clusters:**

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 6 was manually annotated 4 times for cluster DQ.
- Start number 8 was manually annotated 2 times for cluster DQ.

### **Gene Information:**

Gene: Chidiebere\_93 Start: 69369, Stop: 69551, Start Num: 8

Candidate Starts for Chidiebere\_93:

(1, 69144), (2, 69168), (4, 69192), (5, 69222), (Start: 6 @69333 has 4 MA's), (Start: 8 @69369 has 2 MA's), (9, 69384), (10, 69390), (12, 69411), (13, 69459), (15, 69474), (16, 69477), (17, 69489), (18, 69495),

Gene: ChisanaKitsune\_90 Start: 68278, Stop: 68496, Start Num: 6

Candidate Starts for ChisanaKitsune\_90:

(1, 68089), (3, 68116), (Start: 6 @68278 has 4 MA's), (Start: 8 @68314 has 2 MA's), (9, 68329), (10, 68335), (12, 68356), (13, 68404), (15, 68419), (16, 68422), (19, 68464),

Gene: FlyingTortilla\_94 Start: 73030, Stop: 73251, Start Num: 6

Candidate Starts for FlyingTortilla\_94:

(Start: 6 @73030 has 4 MA's), (7, 73063), (11, 73096), (13, 73156), (15, 73171), (16, 73174), (18, 73192),

Gene: Gray\_93 Start: 69061, Stop: 69279, Start Num: 6

Candidate Starts for Gray\_93:

(1, 68872), (3, 68899), (Start: 6 @69061 has 4 MA's), (Start: 8 @69097 has 2 MA's), (9, 69112), (10, 69118), (12, 69139), (13, 69187), (15, 69202), (16, 69205),

Gene: Hanem\_92 Start: 68836, Stop: 69018, Start Num: 8

Candidate Starts for Hanem\_92:

(1, 68611), (2, 68635), (4, 68659), (5, 68689), (Start: 6 @68800 has 4 MA's), (Start: 8 @68836 has 2 MA's), (9, 68851), (10, 68857), (12, 68878), (13, 68926), (15, 68941), (16, 68944), (17, 68956), (18, 68962),

Gene: Kabocha\_94 Start: 70146, Stop: 70364, Start Num: 6

Candidate Starts for Kabocha\_94:

(1, 69957), (2, 69981), (4, 70005), (5, 70035), (Start: 6 @70146 has 4 MA's), (Start: 8 @70182 has 2 MA's), (9, 70197), (10, 70203), (12, 70224), (13, 70272), (15, 70287), (16, 70290), (17, 70302), (18,

70308),

Gene: ScarletRaider\_94 Start: 72355, Stop: 72519, Start Num: 10

Candidate Starts for ScarletRaider\_94:

(Start: 6 @72298 has 4 MA's), (7, 72331), (10, 72355), (11, 72364), (13, 72424), (14, 72433), (15, 72439), (16, 72442), (18, 72460),

Gene: Schomber\_91 Start: 68534, Stop: 68752, Start Num: 6

Candidate Starts for Schomber\_91:

(1, 68345), (2, 68369), (4, 68393), (5, 68423), (Start: 6 @68534 has 4 MA's), (Start: 8 @68570 has 2 MA's), (9, 68585), (10, 68591), (12, 68612), (13, 68660), (15, 68675), (16, 68678), (17, 68690), (18, 68696),

Gene: UBSmoodge\_97 Start: 72796, Stop: 72960, Start Num: 10

Candidate Starts for UBSmoodge\_97:

(Start: 6 @72739 has 4 MA's), (7, 72772), (10, 72796), (11, 72805), (13, 72865), (14, 72874), (15, 72880), (16, 72883), (17, 72895), (18, 72901),