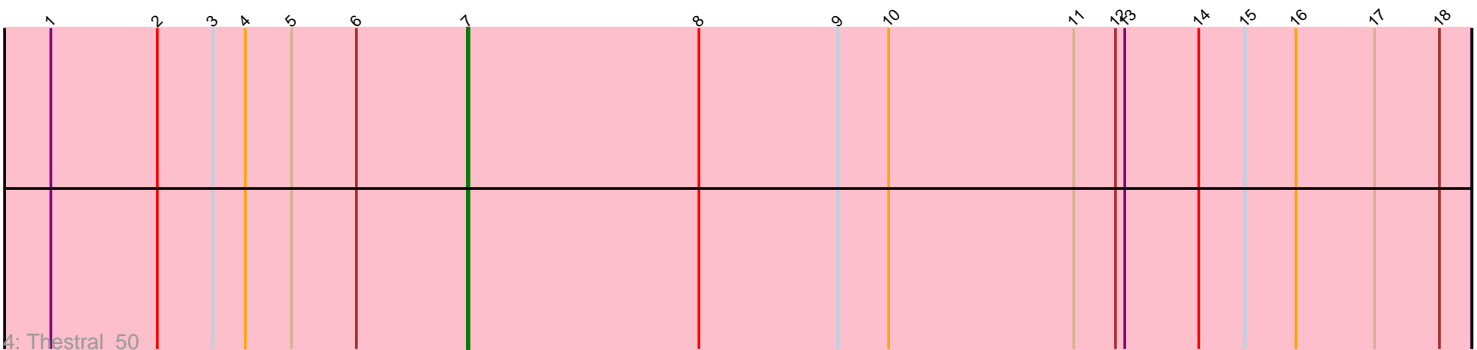
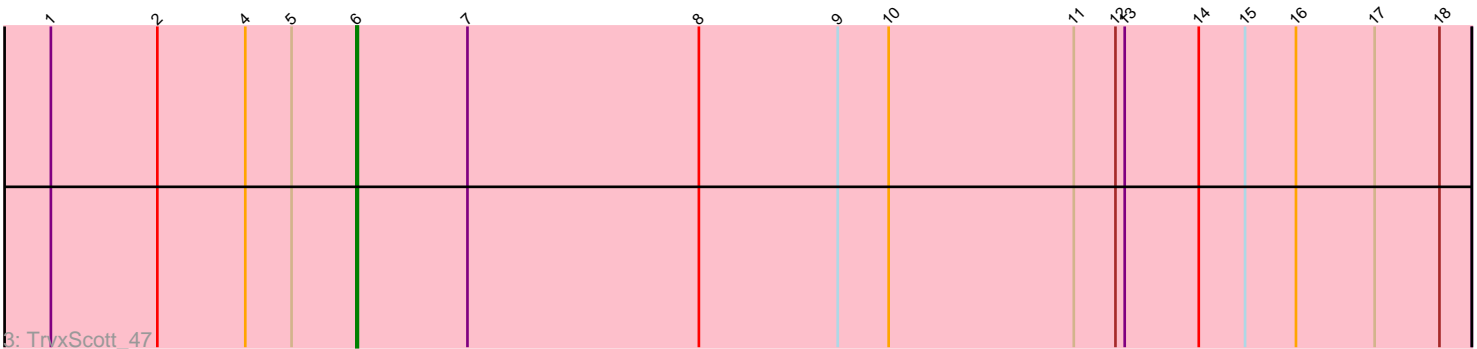
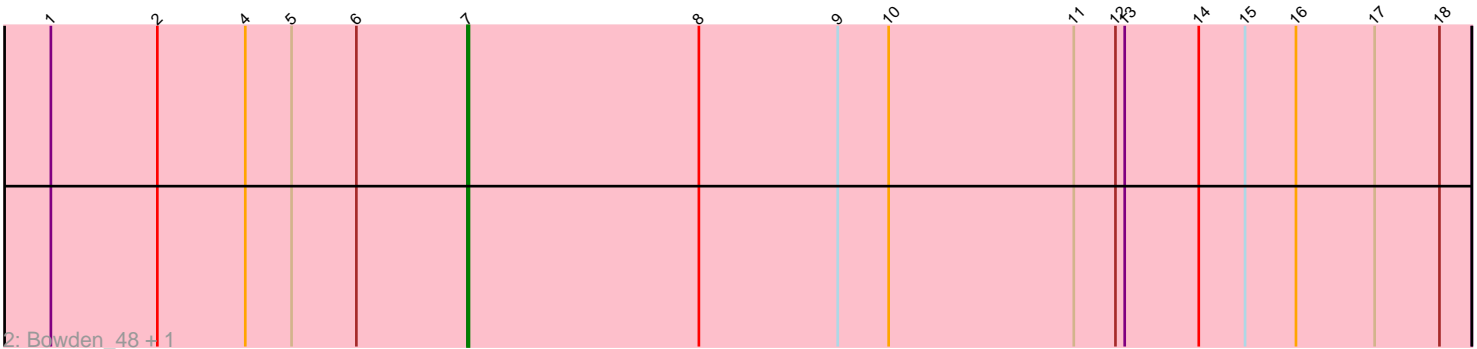
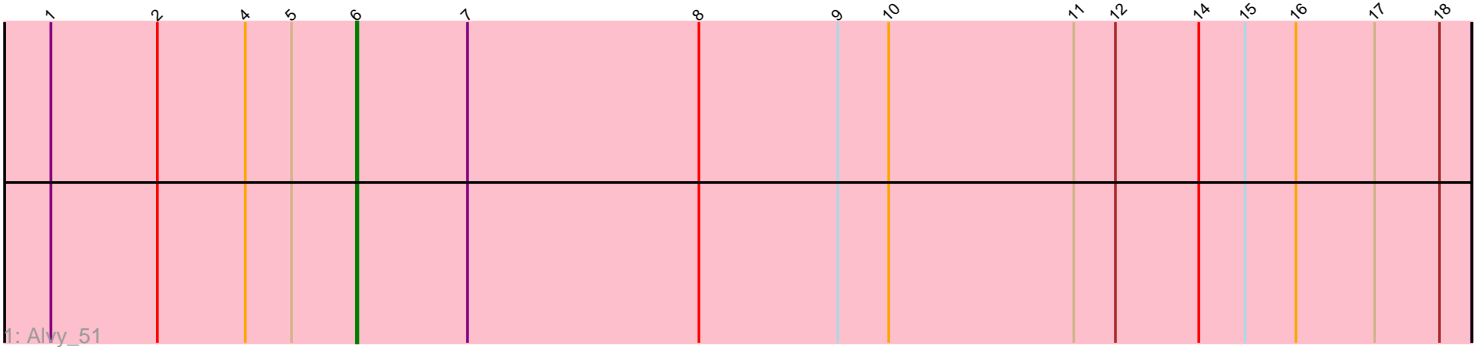


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 107323 Report

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

Pham number 107323 has 5 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Alvy\_51
- Track 2 : Bowden\_48, TinaBelcher\_48
- Track 3 : TrvxScott\_47
- Track 4 : Thestral\_50

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

The start number called the most often in the published annotations is 7, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bowden\_48, Thestral\_50, TinaBelcher\_48,

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

- Alvy\_51, TrvxScott\_47,

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

- 

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

Start 6:

- Found in 5 of 5 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Alvy\_51 (BD2), TrvxScott\_47 (BD2),

Start 7:

- Found in 5 of 5 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Bowden\_48 (BD2), Thestral\_50 (BD2), TinaBelcher\_48 (BD2),

## Summary by clusters:

There is one cluster represented in this pham: BD2

Info for manual annotations of cluster BD2:

- Start number 6 was manually annotated 2 times for cluster BD2.
- Start number 7 was manually annotated 3 times for cluster BD2.

### **Gene Information:**

Gene: Alvy\_51 Start: 36054, Stop: 35332, Start Num: 6

Candidate Starts for Alvy\_51:

(1, 36252), (2, 36183), (4, 36126), (5, 36096), (Start: 6 @36054 has 2 MA's), (Start: 7 @35982 has 3 MA's), (8, 35832), (9, 35742), (10, 35709), (11, 35589), (12, 35562), (14, 35508), (15, 35478), (16, 35445), (17, 35394), (18, 35352),

Gene: Bowden\_48 Start: 35896, Stop: 35246, Start Num: 7

Candidate Starts for Bowden\_48:

(1, 36166), (2, 36097), (4, 36040), (5, 36010), (Start: 6 @35968 has 2 MA's), (Start: 7 @35896 has 3 MA's), (8, 35746), (9, 35656), (10, 35623), (11, 35503), (12, 35476), (13, 35470), (14, 35422), (15, 35392), (16, 35359), (17, 35308), (18, 35266),

Gene: Thestral\_50 Start: 35887, Stop: 35237, Start Num: 7

Candidate Starts for Thestral\_50:

(1, 36157), (2, 36088), (3, 36052), (4, 36031), (5, 36001), (Start: 6 @35959 has 2 MA's), (Start: 7 @35887 has 3 MA's), (8, 35737), (9, 35647), (10, 35614), (11, 35494), (12, 35467), (13, 35461), (14, 35413), (15, 35383), (16, 35350), (17, 35299), (18, 35257),

Gene: TinaBelcher\_48 Start: 35835, Stop: 35185, Start Num: 7

Candidate Starts for TinaBelcher\_48:

(1, 36105), (2, 36036), (4, 35979), (5, 35949), (Start: 6 @35907 has 2 MA's), (Start: 7 @35835 has 3 MA's), (8, 35685), (9, 35595), (10, 35562), (11, 35442), (12, 35415), (13, 35409), (14, 35361), (15, 35331), (16, 35298), (17, 35247), (18, 35205),

Gene: TrvxScott\_47 Start: 35953, Stop: 35231, Start Num: 6

Candidate Starts for TrvxScott\_47:

(1, 36151), (2, 36082), (4, 36025), (5, 35995), (Start: 6 @35953 has 2 MA's), (Start: 7 @35881 has 3 MA's), (8, 35731), (9, 35641), (10, 35608), (11, 35488), (12, 35461), (13, 35455), (14, 35407), (15, 35377), (16, 35344), (17, 35293), (18, 35251),