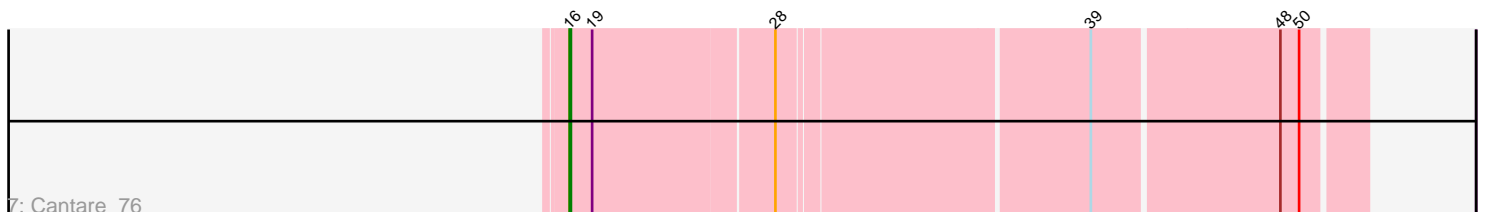
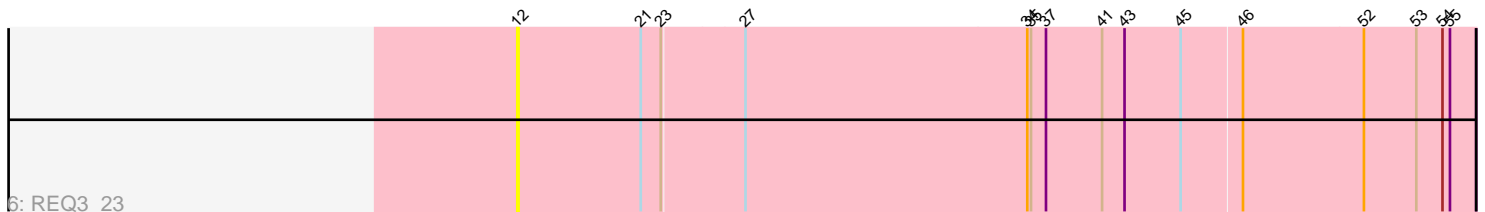
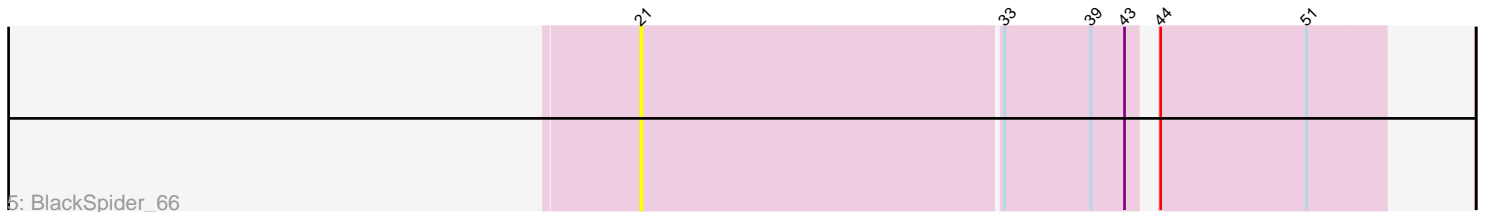
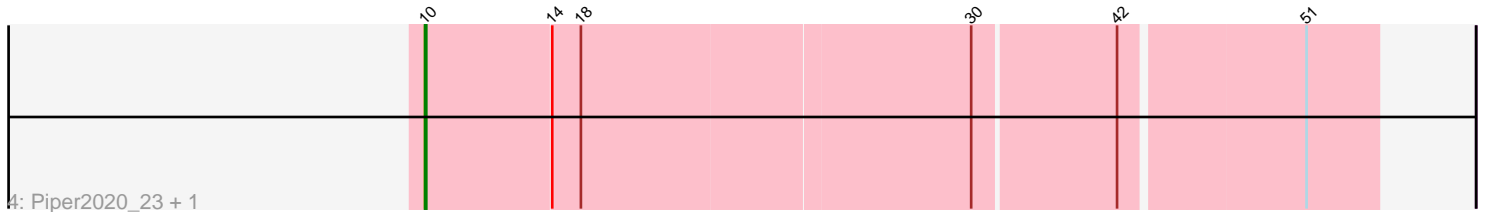
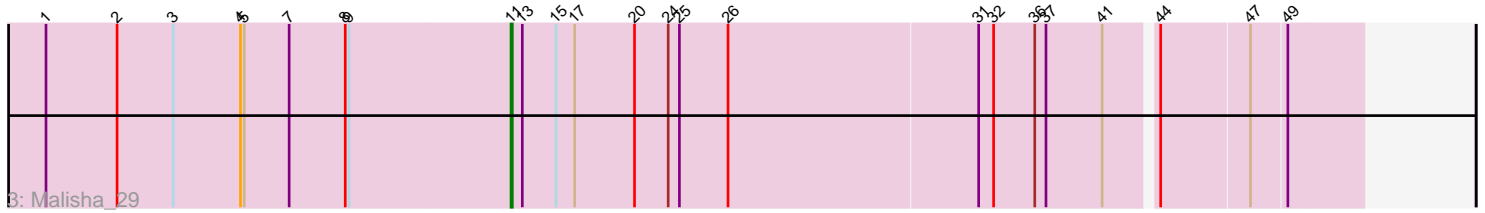
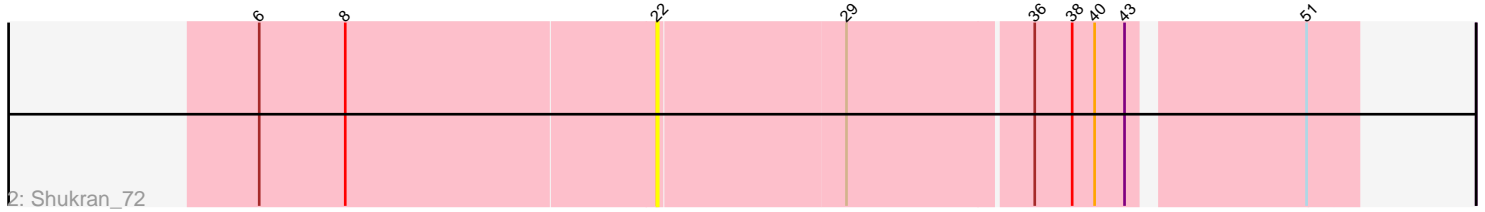
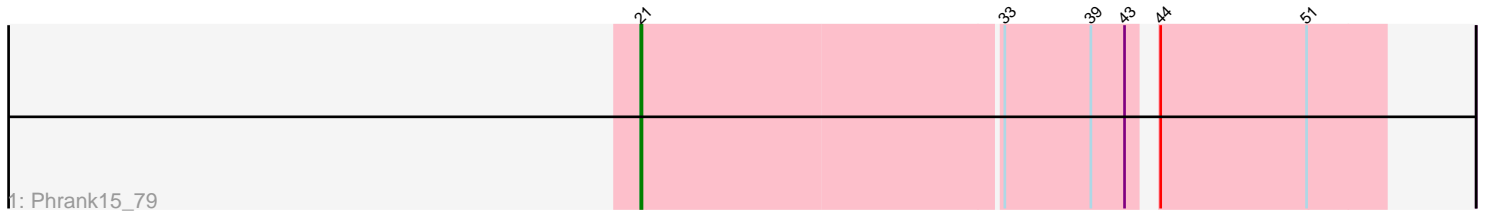


Pham 203641



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 203641 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203641 has 8 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Phrank15\_79
- Track 2 : Shukran\_72
- Track 3 : Malisha\_29
- Track 4 : Piper2020\_23, DocMcStuffins\_23
- Track 5 : BlackSpider\_66
- Track 6 : REQ3\_23
- Track 7 : Cantare\_76

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

The start number called the most often in the published annotations is 10, it was called in 2 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DocMcStuffins\_23, Piper2020\_23,

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

- 

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

- BlackSpider\_66, Cantare\_76, Malisha\_29, Phrank15\_79, REQ3\_23, Shukran\_72,

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

Start 10:

- Found in 2 of 8 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DocMcStuffins\_23 (F1), Piper2020\_23 (F1),

Start 11:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 5

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Malisha\_29 (DN),

Start 12:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: REQ3\_23 (singleton),

Start 16:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cantare\_76 (singleton),

Start 21:

- Found in 3 of 8 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BlackSpider\_66 (FN), Phrank15\_79 (AY),

Start 22:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shukran\_72 (AY),

### **Summary by clusters:**

There are 5 clusters represented in this pham: DN, F1, singleton, AY, FN,

Info for manual annotations of cluster AY:

- Start number 21 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster DN:

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

Info for manual annotations of cluster F1:

- Start number 10 was manually annotated 2 times for cluster F1.

### **Gene Information:**

Gene: BlackSpider\_66 Start: 38978, Stop: 39544, Start Num: 21

Candidate Starts for BlackSpider\_66:

(Start: 21 @38978 has 1 MA's), (33, 39260), (39, 39329), (43, 39356), (44, 39368), (51, 39485),

Gene: Cantare\_76 Start: 62423, Stop: 63022, Start Num: 16

Candidate Starts for Cantare\_76:

(Start: 16 @62423 has 1 MA's), (19, 62441), (28, 62582), (39, 62819), (48, 62963), (50, 62978),

Gene: DocMcStuffins\_23 Start: 23233, Stop: 23961, Start Num: 10

Candidate Starts for DocMcStuffins\_23:

(Start: 10 @23233 has 2 MA's), (14, 23332), (18, 23353), (30, 23656), (42, 23767), (51, 23905),

Gene: Malisha\_29 Start: 23381, Stop: 24040, Start Num: 11

Candidate Starts for Malisha\_29:

(1, 23009), (2, 23066), (3, 23111), (4, 23165), (5, 23168), (7, 23204), (8, 23249), (9, 23252), (Start: 11 @23381 has 1 MA's), (13, 23390), (15, 23417), (17, 23432), (20, 23480), (24, 23507), (25, 23516), (26, 23555), (31, 23750), (32, 23762), (36, 23795), (37, 23804), (41, 23849), (44, 23885), (47, 23954), (49, 23981),

Gene: Phrank15\_79 Start: 42147, Stop: 42713, Start Num: 21

Candidate Starts for Phrank15\_79:

(Start: 21 @42147 has 1 MA's), (33, 42429), (39, 42498), (43, 42525), (44, 42537), (51, 42654),

Gene: Piper2020\_23 Start: 23232, Stop: 23960, Start Num: 10

Candidate Starts for Piper2020\_23:

(Start: 10 @23232 has 2 MA's), (14, 23331), (18, 23352), (30, 23655), (42, 23766), (51, 23904),

Gene: REQ3\_23 Start: 10266, Stop: 11021, Start Num: 12

Candidate Starts for REQ3\_23:

(12, 10266), (Start: 21 @10365 has 1 MA's), (23, 10380), (27, 10443), (34, 10668), (35, 10671), (37, 10683), (41, 10728), (43, 10746), (45, 10791), (46, 10836), (52, 10932), (53, 10974), (54, 10995), (55, 11001),

Gene: Shukran\_72 Start: 40696, Stop: 41226, Start Num: 22

Candidate Starts for Shukran\_72:

(6, 40381), (8, 40450), (22, 40696), (29, 40843), (36, 40987), (38, 41017), (40, 41035), (43, 41059), (51, 41188),