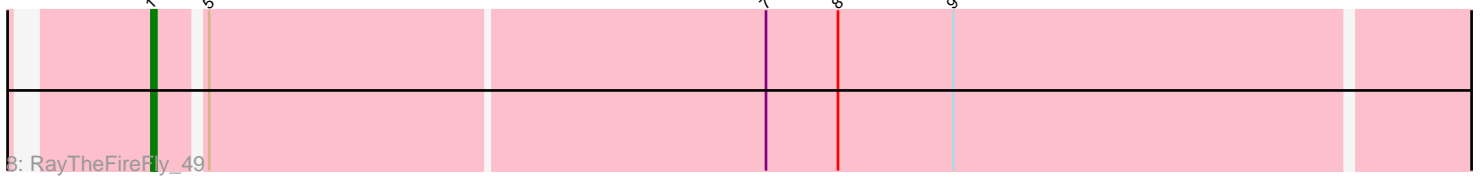
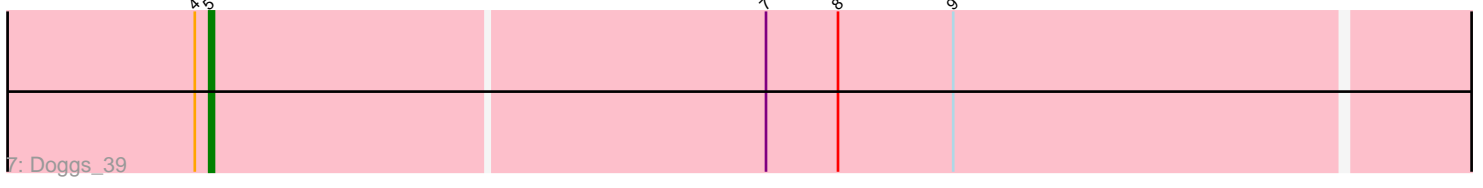
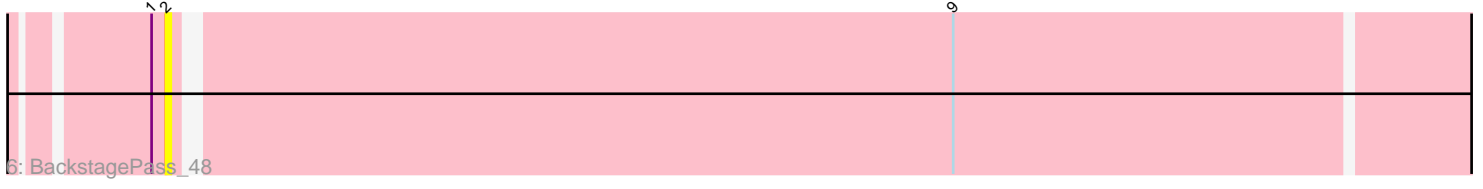
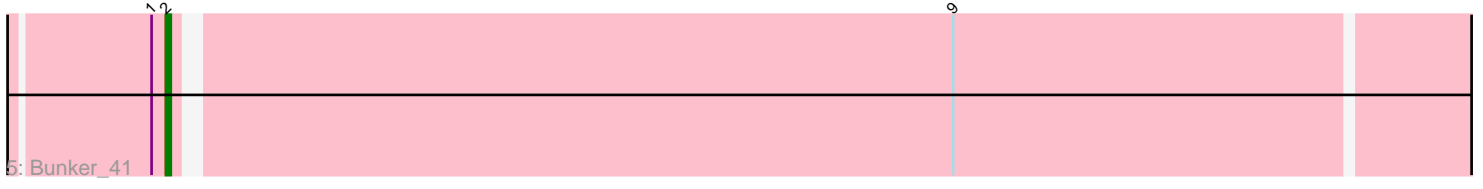
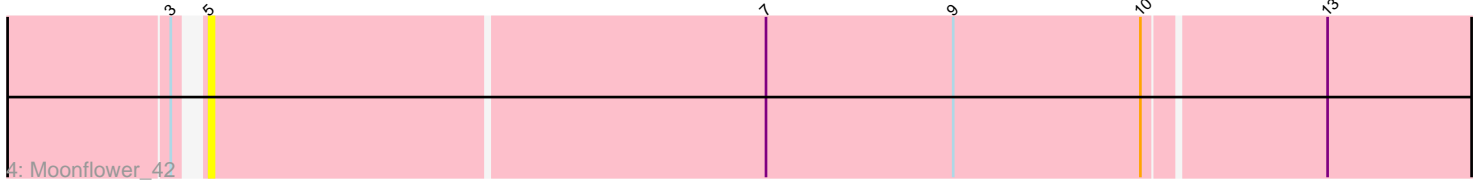
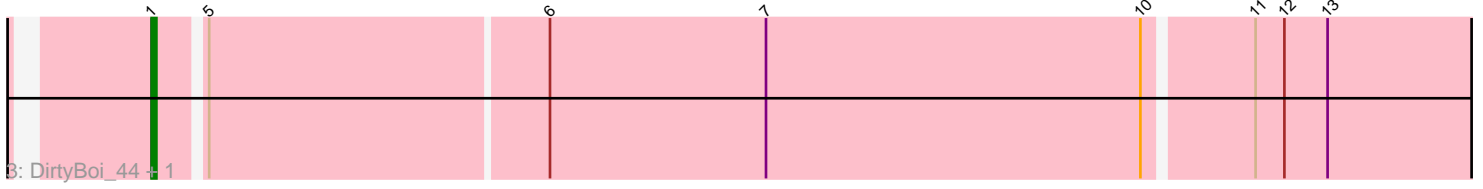
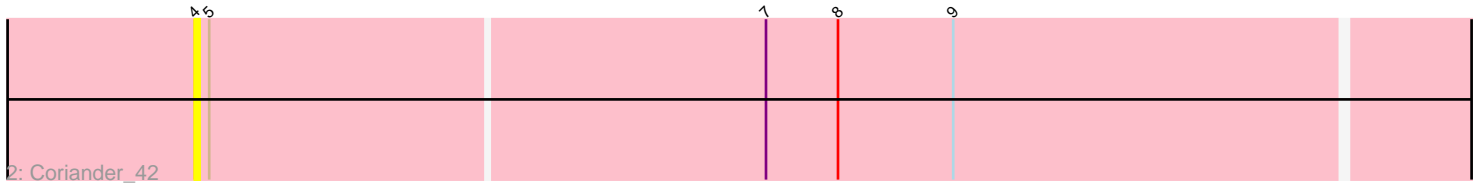
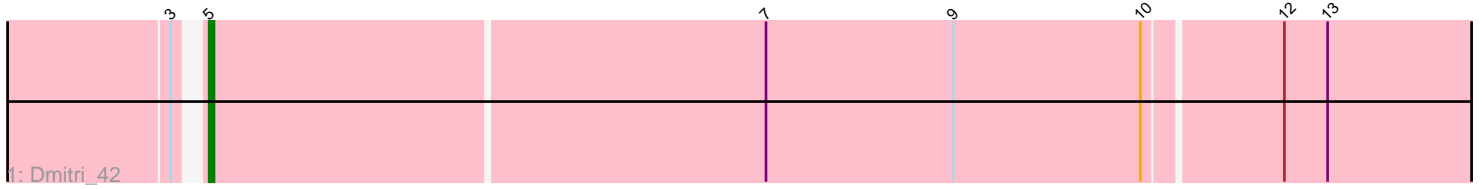


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 220373 Report

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

Pham number 220373 has 9 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Dmitri\_42
- Track 2 : Coriander\_42
- Track 3 : DirtyBoi\_44, Hedwig\_45
- Track 4 : Moonflower\_42
- Track 5 : Bunker\_41
- Track 6 : BackstagePass\_48
- Track 7 : Doggs\_39
- Track 8 : RayTheFireFly\_49

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

The start number called the most often in the published annotations is 1, it was called in 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DirtyBoi\_44, Hedwig\_45, RayTheFireFly\_49,

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

- BackstagePass\_48, Bunker\_41,

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

- Coriander\_42, Dmitri\_42, Doggs\_39, Moonflower\_42,

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

Start 1:

- Found in 5 of 9 ( 55.6% ) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 60.0% of time when present
- Phage (with cluster) where this start called: DirtyBoi\_44 (DB), Hedwig\_45 (DB), RayTheFireFly\_49 (DB),

Start 2:

- Found in 2 of 9 ( 22.2% ) of genes in pham

- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BackstagePass\_48 (DB), Bunker\_41 (DB),

Start 4:

- Found in 2 of 9 ( 22.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Coriander\_42 (DB),

Start 5:

- Found in 7 of 9 ( 77.8% ) of genes in pham
- Manual Annotations of this start: 2 of 6
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Dmitri\_42 (DB), Doggs\_39 (DB), Moonflower\_42 (DB),

### **Summary by clusters:**

There is one cluster represented in this pham: DB

Info for manual annotations of cluster DB:

- Start number 1 was manually annotated 3 times for cluster DB.
- Start number 2 was manually annotated 1 time for cluster DB.
- Start number 5 was manually annotated 2 times for cluster DB.

### **Gene Information:**

Gene: BackstagePass\_48 Start: 34036, Stop: 33737, Start Num: 2

Candidate Starts for BackstagePass\_48:

(Start: 1 @34039 has 3 MA's), (Start: 2 @34036 has 1 MA's), (9, 33877),

Gene: Bunker\_41 Start: 32653, Stop: 32952, Start Num: 2

Candidate Starts for Bunker\_41:

(Start: 1 @32650 has 3 MA's), (Start: 2 @32653 has 1 MA's), (9, 32812),

Gene: Coriander\_42 Start: 32123, Stop: 32419, Start Num: 4

Candidate Starts for Coriander\_42:

(4, 32123), (Start: 5 @32126 has 2 MA's), (7, 32240), (8, 32255), (9, 32279),

Gene: DirtyBoi\_44 Start: 32162, Stop: 32464, Start Num: 1

Candidate Starts for DirtyBoi\_44:

(Start: 1 @32162 has 3 MA's), (Start: 5 @32171 has 2 MA's), (6, 32240), (7, 32285), (10, 32363), (11, 32384), (12, 32390), (13, 32399),

Gene: Dmitri\_42 Start: 33710, Stop: 34003, Start Num: 5

Candidate Starts for Dmitri\_42:

(3, 33707), (Start: 5 @33710 has 2 MA's), (7, 33824), (9, 33863), (10, 33902), (12, 33929), (13, 33938),

Gene: Doggs\_39 Start: 32855, Stop: 33148, Start Num: 5

Candidate Starts for Doggs\_39:

(4, 32852), (Start: 5 @32855 has 2 MA's), (7, 32969), (8, 32984), (9, 33008),

Gene: Hedwig\_45 Start: 32585, Stop: 32887, Start Num: 1

Candidate Starts for Hedwig\_45:

(Start: 1 @32585 has 3 MA's), (Start: 5 @32594 has 2 MA's), (6, 32663), (7, 32708), (10, 32786), (11, 32807), (12, 32813), (13, 32822),

Gene: Moonflower\_42 Start: 33573, Stop: 33866, Start Num: 5

Candidate Starts for Moonflower\_42:

(3, 33570), (Start: 5 @33573 has 2 MA's), (7, 33687), (9, 33726), (10, 33765), (13, 33801),

Gene: RayTheFireFly\_49 Start: 33759, Stop: 34061, Start Num: 1

Candidate Starts for RayTheFireFly\_49:

(Start: 1 @33759 has 3 MA's), (Start: 5 @33768 has 2 MA's), (7, 33882), (8, 33897), (9, 33921),