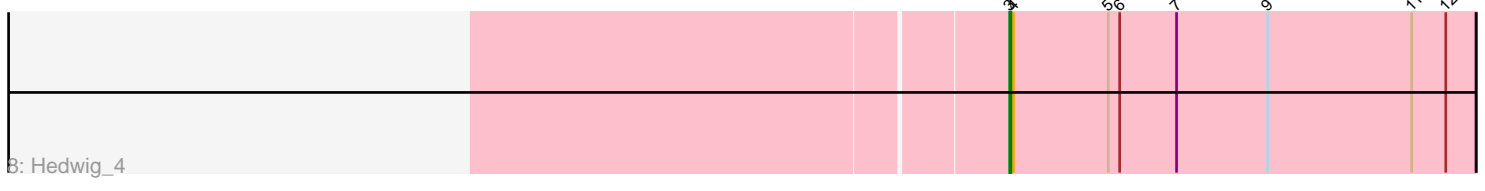
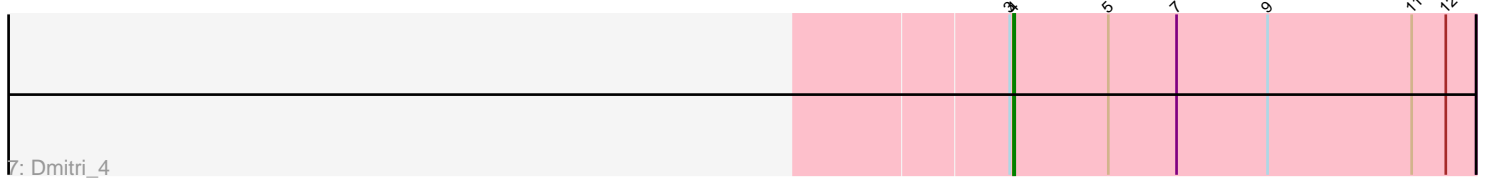
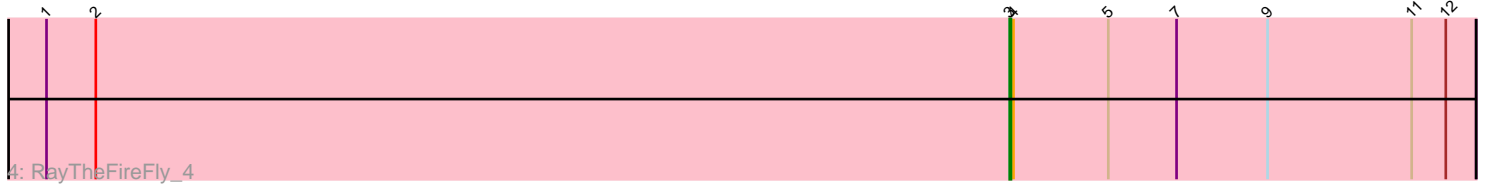
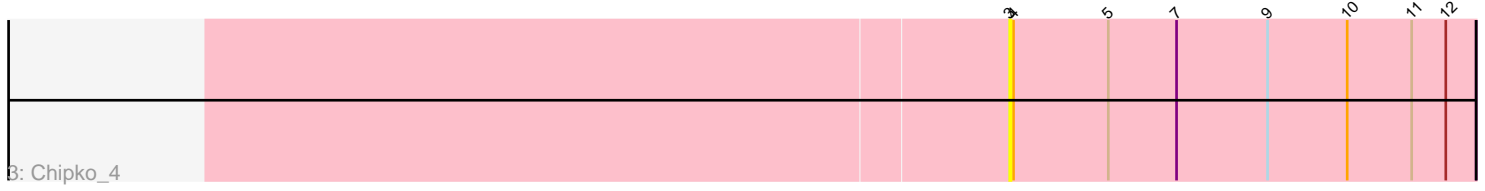
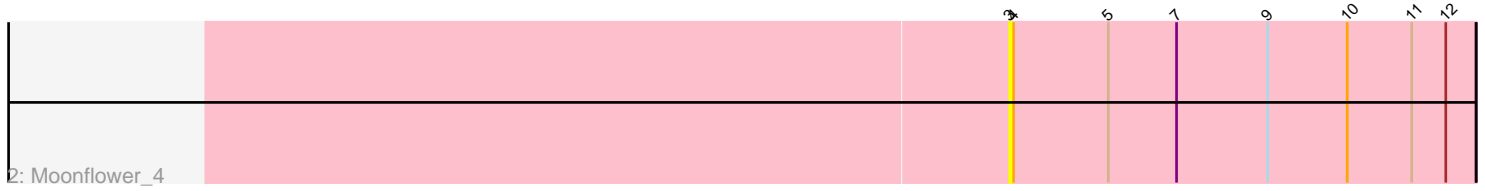
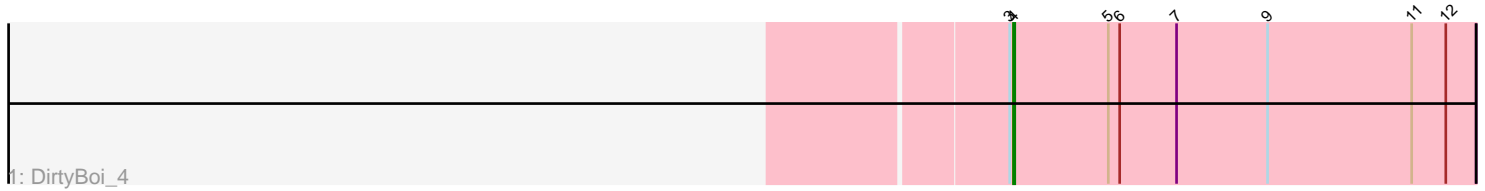


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 297276 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297276 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : DirtyBoi\_4
- Track 2 : Moonflower\_4
- Track 3 : Chipko\_4
- Track 4 : RayTheFireFly\_4
- Track 5 : Coriander\_4
- Track 6 : Kiko\_4
- Track 7 : Dmitri\_4
- Track 8 : Hedwig\_4

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipko\_4, Coriander\_4, Hedwig\_4, Kiko\_4, Moonflower\_4, RayTheFireFly\_4,

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

- DirtyBoi\_4, Dmitri\_4,

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

- 

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

Start 3:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 6
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Chipko\_4 (DB), Coriander\_4 (DB), Hedwig\_4 (DB), Kiko\_4 (DB), Moonflower\_4 (DB), RayTheFireFly\_4 (DB),

Start 4:

- Found in 8 of 8 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 2 of 6
- Called 25.0% of time when present
- Phage (with cluster) where this start called: DirtyBoi\_4 (DB), Dmitri\_4 (DB),

### Summary by clusters:

There is one cluster represented in this pham: DB

Info for manual annotations of cluster DB:

- Start number 3 was manually annotated 4 times for cluster DB.
- Start number 4 was manually annotated 2 times for cluster DB.

### Gene Information:

Gene: Chipko\_4 Start: 3570, Stop: 3938, Start Num: 3

Candidate Starts for Chipko\_4:

(Start: 3 @3570 has 4 MA's), (Start: 4 @3573 has 2 MA's), (5, 3648), (7, 3702), (9, 3774), (10, 3837), (11, 3888), (12, 3915),

Gene: Coriander\_4 Start: 3569, Stop: 3937, Start Num: 3

Candidate Starts for Coriander\_4:

(1, 2813), (2, 2852), (Start: 3 @3569 has 4 MA's), (Start: 4 @3572 has 2 MA's), (5, 3647), (7, 3701), (9, 3773), (11, 3887), (12, 3914),

Gene: DirtyBoi\_4 Start: 3575, Stop: 3940, Start Num: 4

Candidate Starts for DirtyBoi\_4:

(Start: 3 @3572 has 4 MA's), (Start: 4 @3575 has 2 MA's), (5, 3650), (6, 3659), (7, 3704), (9, 3776), (11, 3890), (12, 3917),

Gene: Dmitri\_4 Start: 3575, Stop: 3940, Start Num: 4

Candidate Starts for Dmitri\_4:

(Start: 3 @3572 has 4 MA's), (Start: 4 @3575 has 2 MA's), (5, 3650), (7, 3704), (9, 3776), (11, 3890), (12, 3917),

Gene: Hedwig\_4 Start: 3569, Stop: 3937, Start Num: 3

Candidate Starts for Hedwig\_4:

(Start: 3 @3569 has 4 MA's), (Start: 4 @3572 has 2 MA's), (5, 3647), (6, 3656), (7, 3701), (9, 3773), (11, 3887), (12, 3914),

Gene: Kiko\_4 Start: 3441, Stop: 3809, Start Num: 3

Candidate Starts for Kiko\_4:

(Start: 3 @3441 has 4 MA's), (Start: 4 @3444 has 2 MA's), (5, 3519), (8, 3609),

Gene: Moonflower\_4 Start: 3574, Stop: 3942, Start Num: 3

Candidate Starts for Moonflower\_4:

(Start: 3 @3574 has 4 MA's), (Start: 4 @3577 has 2 MA's), (5, 3652), (7, 3706), (9, 3778), (10, 3841), (11, 3892), (12, 3919),

Gene: RayTheFireFly\_4 Start: 3578, Stop: 3946, Start Num: 3

Candidate Starts for RayTheFireFly\_4:

(1, 2816), (2, 2855), (Start: 3 @3578 has 4 MA's), (Start: 4 @3581 has 2 MA's), (5, 3656), (7, 3710), (9, 3782), (11, 3896), (12, 3923),