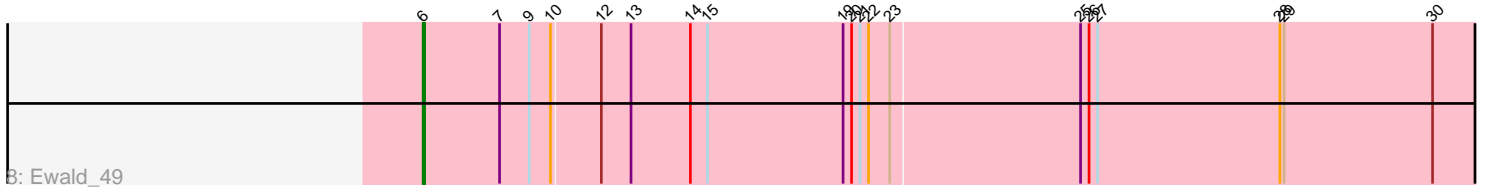
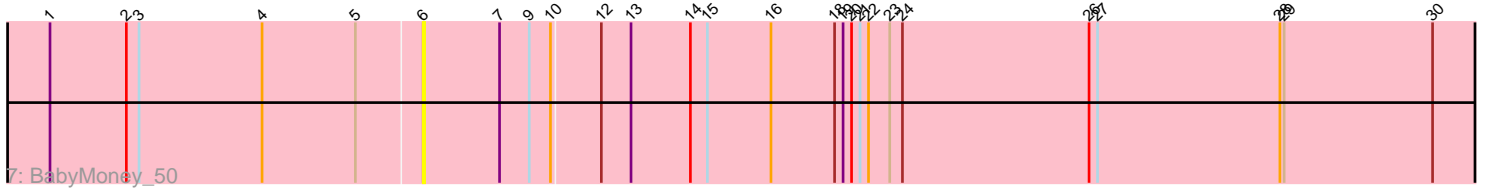
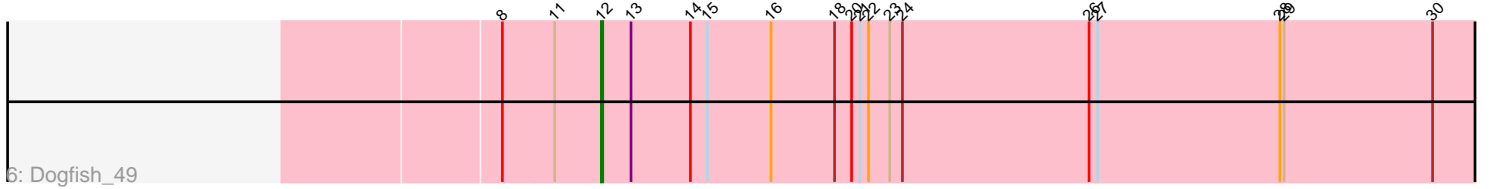
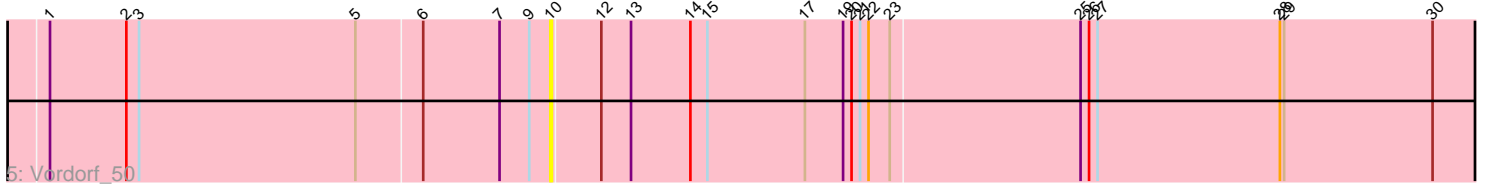
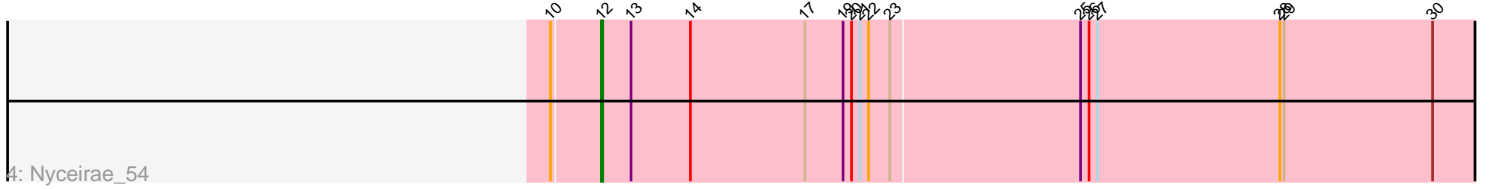
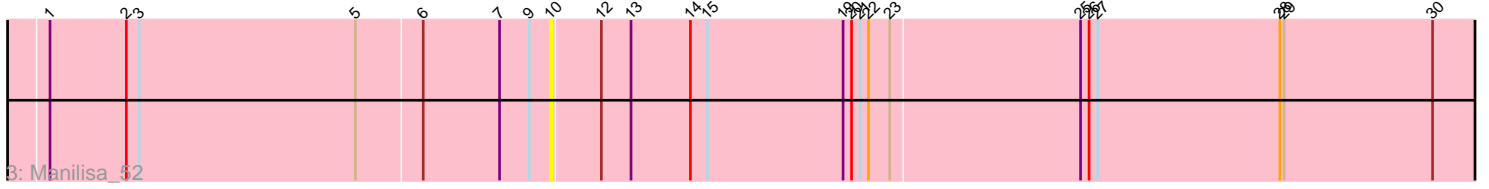
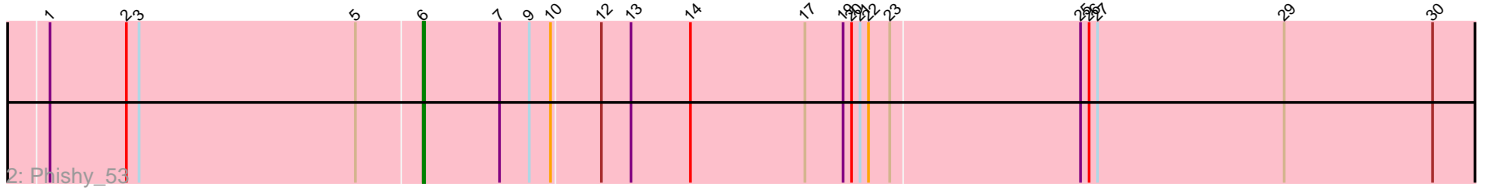
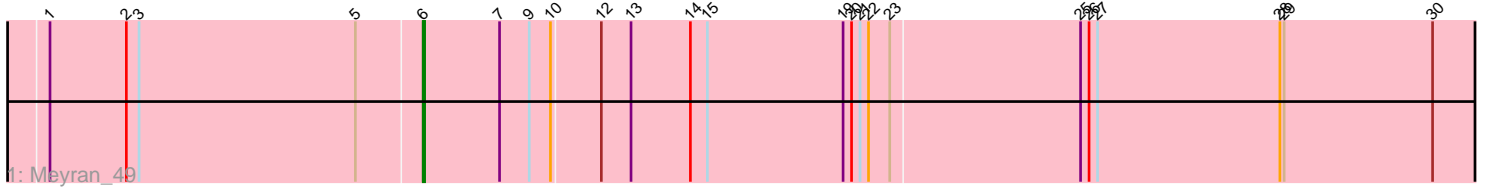


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 295403 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295403 has 8 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Meyran\_49
- Track 2 : Phishy\_53
- Track 3 : Manilisa\_52
- Track 4 : Nyceirae\_54
- Track 5 : Vordorf\_50
- Track 6 : Dogfish\_49
- Track 7 : BabyMoney\_50
- Track 8 : Ewald\_49

### ***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 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BabyMoney\_50, Ewald\_49, Meyran\_49, Phishy\_53,

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

- Manilisa\_52, Vordorf\_50,

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

- Dogfish\_49, Nyceirae\_54,

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

Start 6:

- Found in 6 of 8 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BabyMoney\_50 (DT), Ewald\_49 (DT), Meyran\_49 (DT), Phishy\_53 (DT),

Start 10:

- Found in 7 of 8 ( 87.5% ) of genes in pham

- No Manual Annotations of this start.
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Manilisa\_52 (DT), Vordorf\_50 (DT),

Start 12:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Dogfish\_49 (DT), Nyceirae\_54 (DT),

### Summary by clusters:

There is one cluster represented in this pham: DT

Info for manual annotations of cluster DT:

- Start number 6 was manually annotated 3 times for cluster DT.
- Start number 12 was manually annotated 2 times for cluster DT.

### Gene Information:

Gene: BabyMoney\_50 Start: 37319, Stop: 38551, Start Num: 6

Candidate Starts for BabyMoney\_50:

(1, 37058), (2, 37112), (3, 37121), (4, 37208), (5, 37274), (Start: 6 @37319 has 3 MA's), (7, 37373), (9, 37394), (10, 37409), (Start: 12 @37442 has 2 MA's), (13, 37463), (14, 37505), (15, 37517), (16, 37562), (18, 37607), (19, 37613), (20, 37619), (21, 37625), (22, 37631), (23, 37646), (24, 37655), (26, 37787), (27, 37793), (28, 37922), (29, 37925), (30, 38030),

Gene: Dogfish\_49 Start: 36865, Stop: 37968, Start Num: 12

Candidate Starts for Dogfish\_49:

(8, 36796), (11, 36832), (Start: 12 @36865 has 2 MA's), (13, 36886), (14, 36928), (15, 36940), (16, 36985), (18, 37030), (20, 37042), (21, 37048), (22, 37054), (23, 37069), (24, 37078), (26, 37210), (27, 37216), (28, 37345), (29, 37348), (30, 37453),

Gene: Ewald\_49 Start: 36559, Stop: 37788, Start Num: 6

Candidate Starts for Ewald\_49:

(Start: 6 @36559 has 3 MA's), (7, 36613), (9, 36634), (10, 36649), (Start: 12 @36682 has 2 MA's), (13, 36703), (14, 36745), (15, 36757), (19, 36853), (20, 36859), (21, 36865), (22, 36871), (23, 36886), (25, 37018), (26, 37024), (27, 37030), (28, 37159), (29, 37162), (30, 37267),

Gene: Manilisa\_52 Start: 37821, Stop: 38960, Start Num: 10

Candidate Starts for Manilisa\_52:

(1, 37470), (2, 37524), (3, 37533), (5, 37686), (Start: 6 @37731 has 3 MA's), (7, 37785), (9, 37806), (10, 37821), (Start: 12 @37854 has 2 MA's), (13, 37875), (14, 37917), (15, 37929), (19, 38025), (20, 38031), (21, 38037), (22, 38043), (23, 38058), (25, 38190), (26, 38196), (27, 38202), (28, 38331), (29, 38334), (30, 38439),

Gene: Meyran\_49 Start: 37660, Stop: 38889, Start Num: 6

Candidate Starts for Meyran\_49:

(1, 37399), (2, 37453), (3, 37462), (5, 37615), (Start: 6 @37660 has 3 MA's), (7, 37714), (9, 37735), (10, 37750), (Start: 12 @37783 has 2 MA's), (13, 37804), (14, 37846), (15, 37858), (19, 37954), (20, 37960), (21, 37966), (22, 37972), (23, 37987), (25, 38119), (26, 38125), (27, 38131), (28, 38260), (29,

38263), (30, 38368),

Gene: Nyceirae\_54 Start: 37807, Stop: 38916, Start Num: 12

Candidate Starts for Nyceirae\_54:

(10, 37774), (Start: 12 @37807 has 2 MA's), (13, 37828), (14, 37870), (17, 37951), (19, 37978), (20, 37984), (21, 37990), (22, 37996), (23, 38011), (25, 38143), (26, 38149), (27, 38155), (28, 38284), (29, 38287), (30, 38392),

Gene: Phishy\_53 Start: 38633, Stop: 39862, Start Num: 6

Candidate Starts for Phishy\_53:

(1, 38372), (2, 38426), (3, 38435), (5, 38588), (Start: 6 @38633 has 3 MA's), (7, 38687), (9, 38708), (10, 38723), (Start: 12 @38756 has 2 MA's), (13, 38777), (14, 38819), (17, 38900), (19, 38927), (20, 38933), (21, 38939), (22, 38945), (23, 38960), (25, 39092), (26, 39098), (27, 39104), (29, 39236), (30, 39341),

Gene: Vordorf\_50 Start: 37013, Stop: 38146, Start Num: 10

Candidate Starts for Vordorf\_50:

(1, 36662), (2, 36716), (3, 36725), (5, 36878), (Start: 6 @36923 has 3 MA's), (7, 36977), (9, 36998), (10, 37013), (Start: 12 @37046 has 2 MA's), (13, 37067), (14, 37109), (15, 37121), (17, 37190), (19, 37217), (20, 37223), (21, 37229), (22, 37235), (23, 37250), (25, 37382), (26, 37388), (27, 37394), (28, 37523), (29, 37526), (30, 37631),