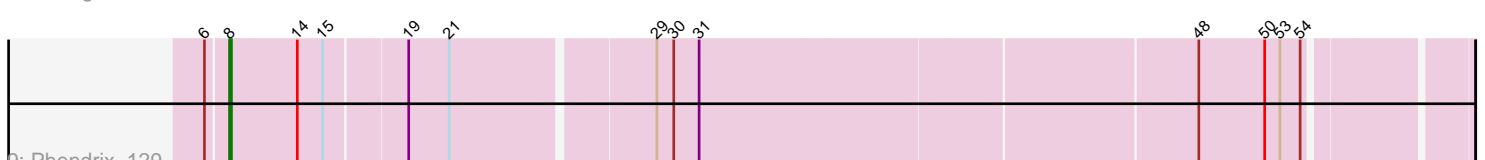
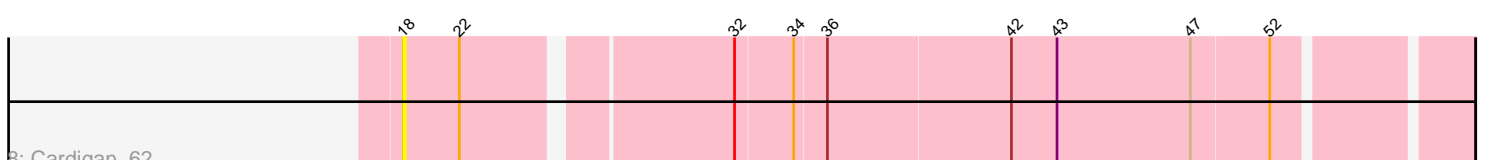
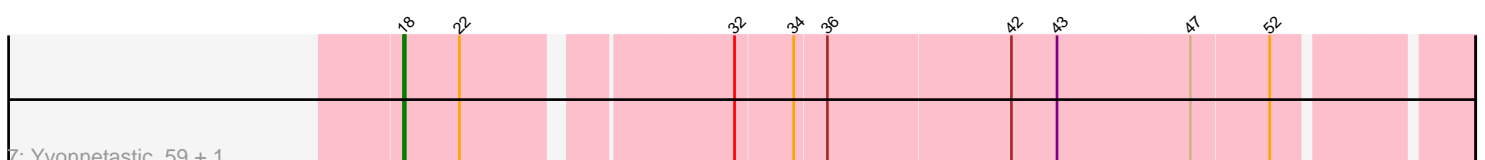
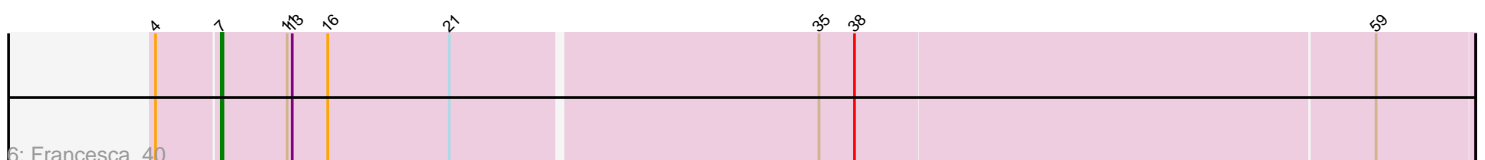
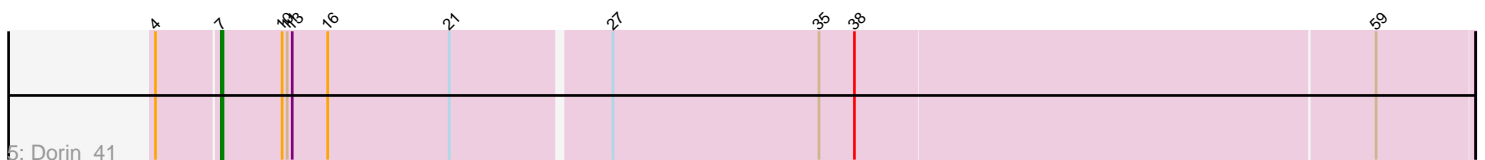
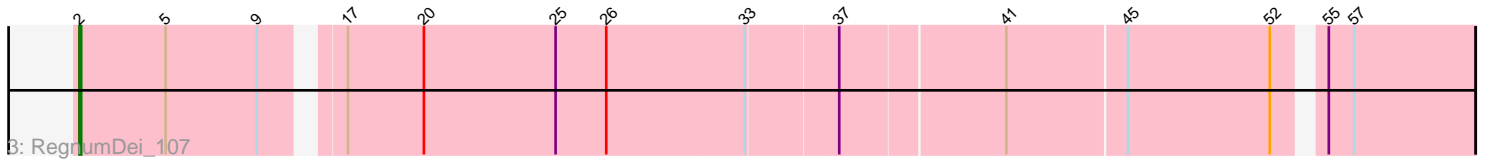
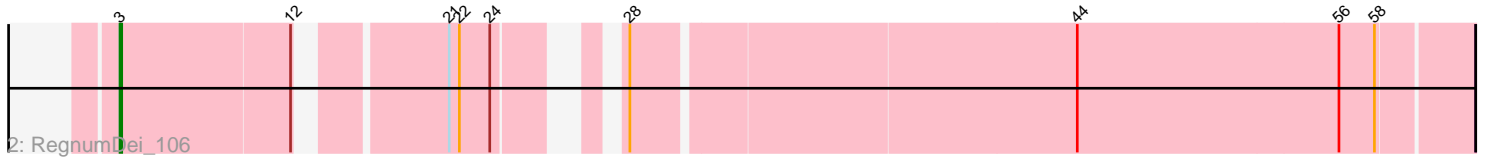
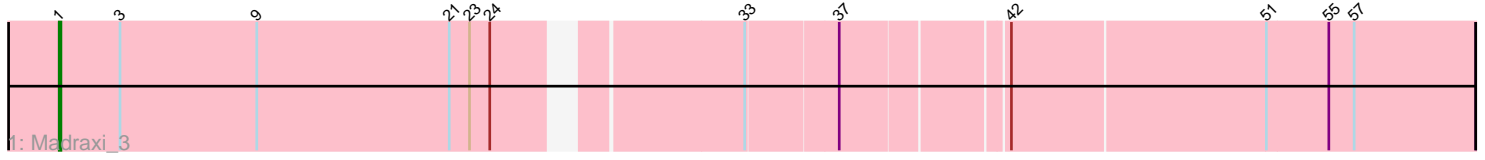


# Pham 305472



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 305472 Report

This analysis was run 06/12/26 on database version 650.

Pham number 305472 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Madraxi\_3
- Track 2 : RegnumDei\_106
- Track 3 : RegnumDei\_107
- Track 4 : Nova53\_38
- Track 5 : Dorin\_41
- Track 6 : Francesca\_40
- Track 7 : Yvonnetastic\_59, JonJames\_61
- Track 8 : Cardigan\_62
- Track 9 : Phendrix\_129
- Track 10 : GodonK\_135

### ***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 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dorin\_41, Francesca\_40, Nova53\_38,

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

- 

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

- Cardigan\_62, GodonK\_135, JonJames\_61, Madraxi\_3, Phendrix\_129, RegnumDei\_106, RegnumDei\_107, Yvonnetastic\_59,

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

Start 1:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Madraxi\_3 (CF),

Start 2:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RegnumDei\_107 (CF),

Start 3:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 50.0% of time when present
- Phage (with cluster) where this start called: RegnumDei\_106 (CF),

Start 7:

- Found in 3 of 11 ( 27.3% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin\_41 (CG), Francesca\_40 (CG), Nova53\_38 (CG),

Start 8:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK\_135 (DK), Phendrix\_129 (DK),

Start 18:

- Found in 3 of 11 ( 27.3% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan\_62 (DD), JonJames\_61 (DD), Yvonnestic\_59 (DD),

**Summary by clusters:**

There are 4 clusters represented in this pham: DD, CG, CF, DK,

Info for manual annotations of cluster CF:

- Start number 1 was manually annotated 1 time for cluster CF.
- Start number 2 was manually annotated 1 time for cluster CF.
- Start number 3 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster CG:

- Start number 7 was manually annotated 3 times for cluster CG.

Info for manual annotations of cluster DD:

- Start number 18 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DK:

- Start number 8 was manually annotated 2 times for cluster DK.

**Gene Information:**

Gene: Cardigan\_62 Start: 43949, Stop: 44536, Start Num: 18  
Candidate Starts for Cardigan\_62:  
(Start: 18 @43949 has 2 MA's), (22, 43982), (32, 44126), (34, 44159), (36, 44177), (42, 44282), (43, 44309), (47, 44387), (52, 44432),

Gene: Dorin\_41 Start: 22041, Stop: 22766, Start Num: 7  
Candidate Starts for Dorin\_41:  
(4, 22005), (Start: 7 @22041 has 3 MA's), (10, 22077), (11, 22080), (13, 22083), (16, 22104), (21, 22176), (27, 22266), (35, 22386), (38, 22407), (59, 22710),

Gene: Francesca\_40 Start: 22173, Stop: 22898, Start Num: 7  
Candidate Starts for Francesca\_40:  
(4, 22137), (Start: 7 @22173 has 3 MA's), (11, 22212), (13, 22215), (16, 22236), (21, 22308), (35, 22518), (38, 22539), (59, 22842),

Gene: GodonK\_135 Start: 78534, Stop: 77842, Start Num: 8  
Candidate Starts for GodonK\_135:  
(6, 78546), (Start: 8 @78534 has 2 MA's), (14, 78495), (15, 78480), (19, 78435), (21, 78411), (29, 78297), (31, 78273), (48, 77988), (50, 77949), (53, 77940), (54, 77928), (60, 77850),

Gene: JonJames\_61 Start: 44299, Stop: 44886, Start Num: 18  
Candidate Starts for JonJames\_61:  
(Start: 18 @44299 has 2 MA's), (22, 44332), (32, 44476), (34, 44509), (36, 44527), (42, 44632), (43, 44659), (47, 44737), (52, 44782),

Gene: Madraxi\_3 Start: 1301, Stop: 2092, Start Num: 1  
Candidate Starts for Madraxi\_3:  
(Start: 1 @1301 has 1 MA's), (Start: 3 @1337 has 1 MA's), (9, 1418), (21, 1532), (23, 1544), (24, 1556), (33, 1682), (37, 1733), (42, 1823), (51, 1970), (55, 2006), (57, 2021),

Gene: Nova53\_38 Start: 22220, Stop: 22936, Start Num: 7  
Candidate Starts for Nova53\_38:  
(4, 22181), (Start: 7 @22220 has 3 MA's), (9, 22241), (11, 22259), (13, 22262), (16, 22283), (21, 22355), (35, 22559), (39, 22610), (40, 22658), (46, 22757), (49, 22811),

Gene: Phendrix\_129 Start: 78530, Stop: 77838, Start Num: 8  
Candidate Starts for Phendrix\_129:  
(6, 78542), (Start: 8 @78530 has 2 MA's), (14, 78491), (15, 78476), (19, 78431), (21, 78407), (29, 78293), (30, 78284), (31, 78269), (48, 77984), (50, 77945), (53, 77936), (54, 77924),

Gene: RegnumDei\_106 Start: 58327, Stop: 59046, Start Num: 3  
Candidate Starts for RegnumDei\_106:  
(Start: 3 @58327 has 1 MA's), (12, 58426), (21, 58498), (22, 58504), (24, 58522), (28, 58567), (44, 58819), (56, 58972), (58, 58993),

Gene: RegnumDei\_107 Start: 59142, Stop: 59921, Start Num: 2  
Candidate Starts for RegnumDei\_107:  
(Start: 2 @59142 has 1 MA's), (5, 59193), (9, 59247), (17, 59283), (20, 59328), (25, 59406), (26, 59436), (33, 59517), (37, 59568), (41, 59661), (45, 59730), (52, 59814), (55, 59835), (57, 59850),

Gene: Yvonnetastic\_59 Start: 41834, Stop: 42421, Start Num: 18  
Candidate Starts for Yvonnetastic\_59:

(Start: 18 @41834 has 2 MA's), (22, 41867), (32, 42011), (34, 42044), (36, 42062), (42, 42167), (43, 42194), (47, 42272), (52, 42317),