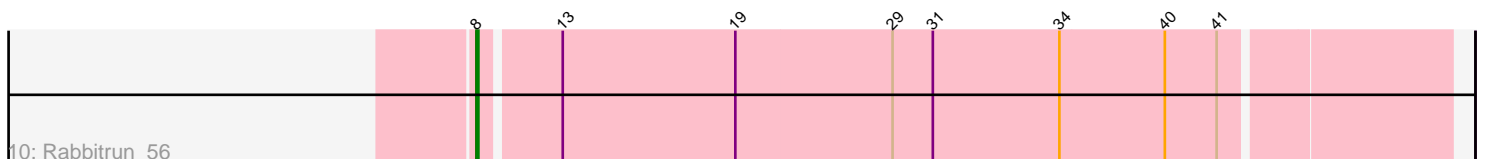
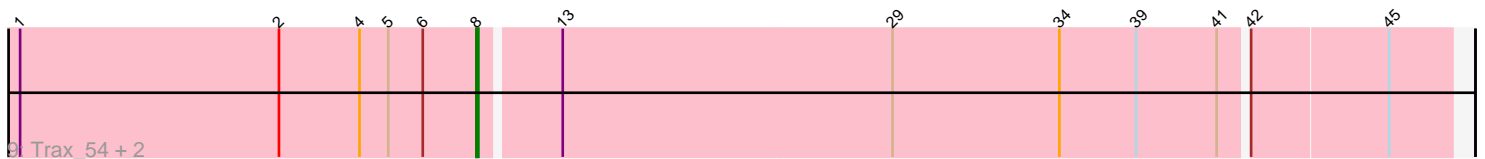
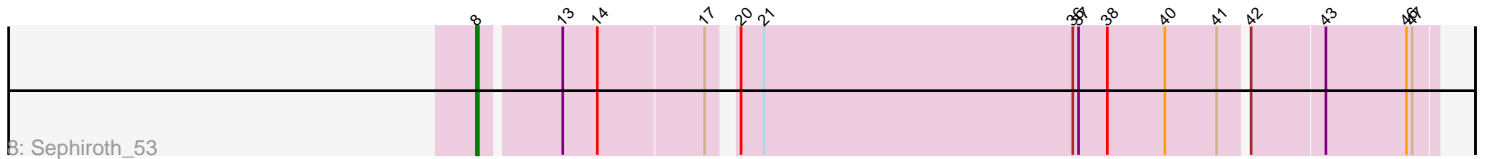
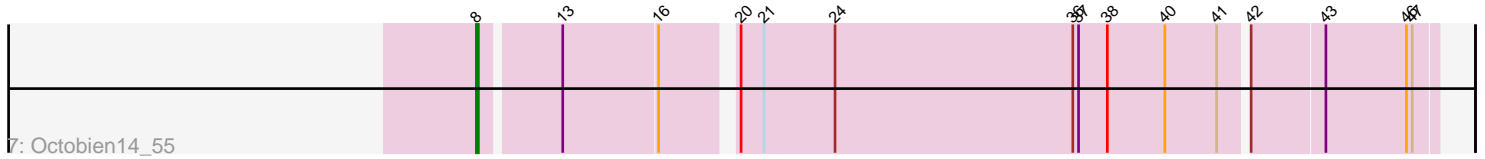
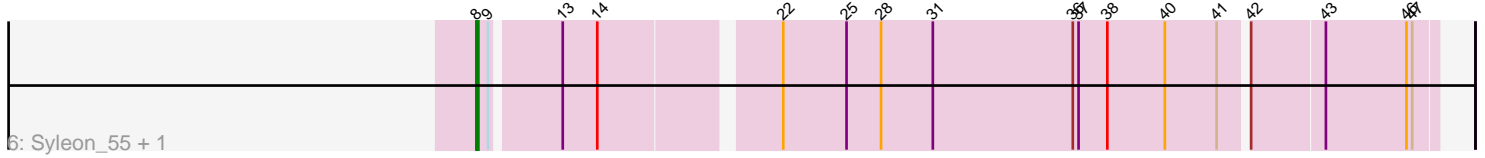
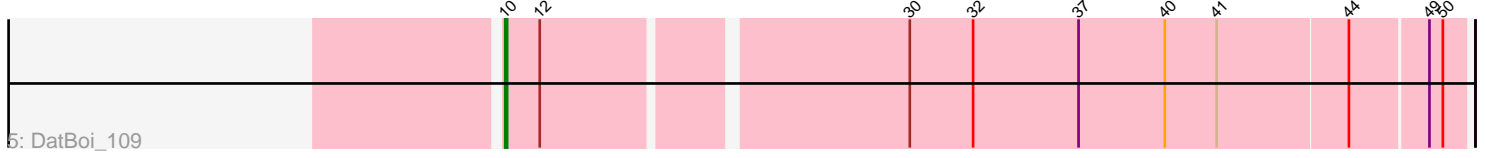
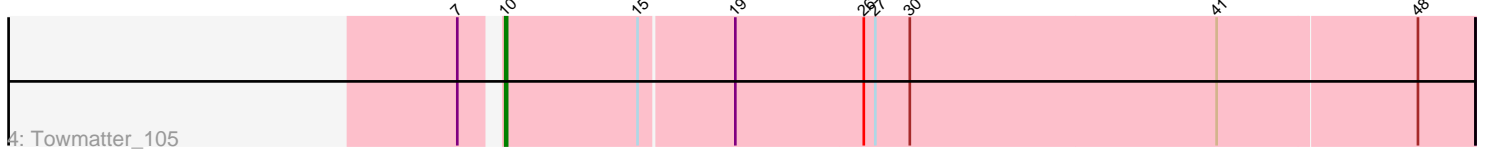
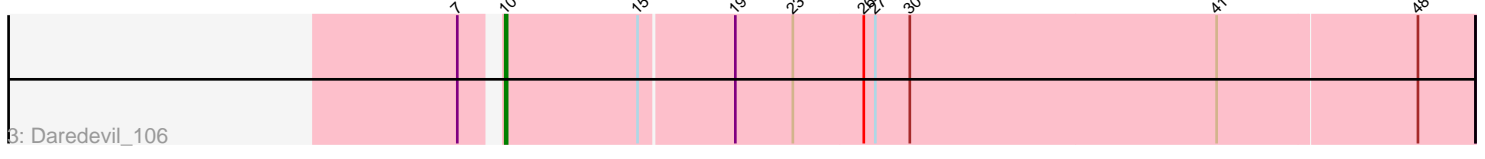
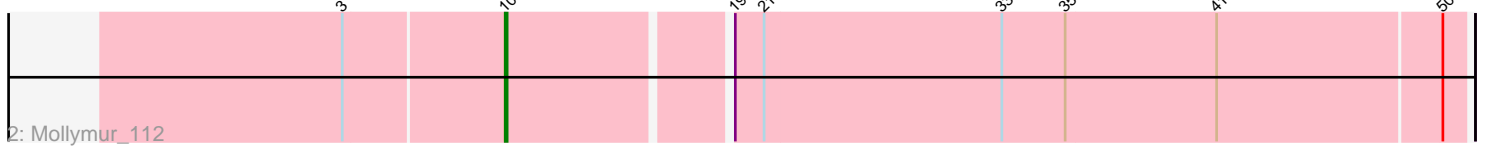
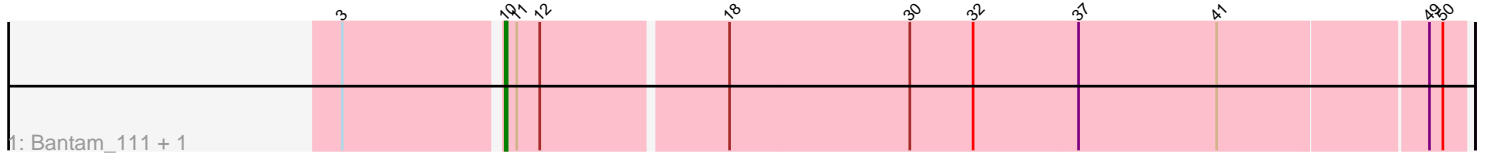


# Pham 295221



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 295221 Report

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

Pham number 295221 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Bantam\_111, SpeedDemon\_1130
- Track 2 : Mollymur\_112
- Track 3 : Daredevil\_106
- Track 4 : Towmatter\_105
- Track 5 : DatBoi\_109
- Track 6 : Syleon\_55, Kudfre\_54
- Track 7 : Octobien14\_55
- Track 8 : Sephiroth\_53
- Track 9 : Trax\_54, LilJank\_53, Neville\_55
- Track 10 : Rabbitrun\_56

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

The start number called the most often in the published annotations is 8, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Kudfre\_54, LilJank\_53, Neville\_55, Octobien14\_55, Rabbitrun\_56, Sephiroth\_53, Syleon\_55, Trax\_54,

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

- 

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

- Bantam\_111, Daredevil\_106, DatBoi\_109, Mollymur\_112, SpeedDemon\_1130, Towmatter\_105,

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

Start 8:

- Found in 8 of 14 ( 57.1% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Kudrefre\_54 (DU1), LilJank\_53 (DU2), Neville\_55 (DU2), Octobien14\_55 (DU1), Rabbitrun\_56 (DU2), Sephiroth\_53 (DU1), Syleon\_55 (DU1), Trax\_54 (DU2),

Start 10:

- Found in 6 of 14 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam\_111 (DL), Daredevil\_106 (DL), DatBoi\_109 (DL), Mollymur\_112 (DL), SpeedDemon\_1130 (DL), Towmatter\_105 (DL),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DU1, DU2, DL,

Info for manual annotations of cluster DL:

- Start number 10 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DU1:

- Start number 8 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 8 was manually annotated 3 times for cluster DU2.

### **Gene Information:**

Gene: Bantam\_111 Start: 70960, Stop: 71445, Start Num: 10

Candidate Starts for Bantam\_111:

(3, 70882), (Start: 10 @70960 has 6 MA's), (11, 70966), (12, 70978), (18, 71071), (30, 71164), (32, 71197), (37, 71251), (41, 71323), (49, 71428), (50, 71434),

Gene: Daredevil\_106 Start: 67803, Stop: 68300, Start Num: 10

Candidate Starts for Daredevil\_106:

(7, 67788), (Start: 10 @67803 has 6 MA's), (15, 67872), (19, 67920), (23, 67950), (26, 67986), (27, 67992), (30, 68010), (41, 68169), (48, 68271),

Gene: DatBoi\_109 Start: 70430, Stop: 70906, Start Num: 10

Candidate Starts for DatBoi\_109:

(Start: 10 @70430 has 6 MA's), (12, 70448), (30, 70625), (32, 70658), (37, 70712), (40, 70757), (41, 70784), (44, 70850), (49, 70889), (50, 70895),

Gene: Kudrefre\_54 Start: 37497, Stop: 37967, Start Num: 8

Candidate Starts for Kudrefre\_54:

(Start: 8 @37497 has 7 MA's), (9, 37503), (13, 37536), (14, 37554), (22, 37638), (25, 37671), (28, 37689), (31, 37716), (36, 37788), (37, 37791), (38, 37806), (40, 37836), (41, 37863), (42, 37875), (43, 37911), (46, 37953), (47, 37956),

Gene: LilJank\_53 Start: 38105, Stop: 38596, Start Num: 8

Candidate Starts for LilJank\_53:

(1, 37868), (2, 38003), (4, 38045), (5, 38060), (6, 38078), (Start: 8 @38105 has 7 MA's), (13, 38144), (29, 38315), (34, 38402), (39, 38441), (41, 38483), (42, 38495), (45, 38564),

Gene: Mollymur\_112 Start: 71742, Stop: 72224, Start Num: 10

Candidate Starts for Mollymur\_112:

(3, 71661), (Start: 10 @71742 has 6 MA's), (19, 71850), (21, 71865), (33, 71988), (35, 72021), (41, 72099), (50, 72213),

Gene: Neville\_55 Start: 37767, Stop: 38258, Start Num: 8

Candidate Starts for Neville\_55:

(1, 37530), (2, 37665), (4, 37707), (5, 37722), (6, 37740), (Start: 8 @37767 has 7 MA's), (13, 37806), (29, 37977), (34, 38064), (39, 38103), (41, 38145), (42, 38157), (45, 38226),

Gene: Octobien14\_55 Start: 38073, Stop: 38543, Start Num: 8

Candidate Starts for Octobien14\_55:

(Start: 8 @38073 has 7 MA's), (13, 38112), (16, 38160), (20, 38193), (21, 38205), (24, 38241), (36, 38364), (37, 38367), (38, 38382), (40, 38412), (41, 38439), (42, 38451), (43, 38487), (46, 38529), (47, 38532),

Gene: Rabbitrun\_56 Start: 38290, Stop: 38781, Start Num: 8

Candidate Starts for Rabbitrun\_56:

(Start: 8 @38290 has 7 MA's), (13, 38329), (19, 38419), (29, 38500), (31, 38521), (34, 38587), (40, 38641), (41, 38668),

Gene: Sephiroth\_53 Start: 37666, Stop: 38136, Start Num: 8

Candidate Starts for Sephiroth\_53:

(Start: 8 @37666 has 7 MA's), (13, 37705), (14, 37723), (17, 37777), (20, 37786), (21, 37798), (36, 37957), (37, 37960), (38, 37975), (40, 38005), (41, 38032), (42, 38044), (43, 38080), (46, 38122), (47, 38125),

Gene: SpeedDemon\_1130 Start: 73480, Stop: 73965, Start Num: 10

Candidate Starts for SpeedDemon\_1130:

(3, 73402), (Start: 10 @73480 has 6 MA's), (11, 73486), (12, 73498), (18, 73591), (30, 73684), (32, 73717), (37, 73771), (41, 73843), (49, 73948), (50, 73954),

Gene: Syleon\_55 Start: 37590, Stop: 38060, Start Num: 8

Candidate Starts for Syleon\_55:

(Start: 8 @37590 has 7 MA's), (9, 37596), (13, 37629), (14, 37647), (22, 37731), (25, 37764), (28, 37782), (31, 37809), (36, 37881), (37, 37884), (38, 37899), (40, 37929), (41, 37956), (42, 37968), (43, 38004), (46, 38046), (47, 38049),

Gene: Towmatter\_105 Start: 67885, Stop: 68382, Start Num: 10

Candidate Starts for Towmatter\_105:

(7, 67870), (Start: 10 @67885 has 6 MA's), (15, 67954), (19, 68002), (26, 68068), (27, 68074), (30, 68092), (41, 68251), (48, 68353),

Gene: Trax\_54 Start: 38052, Stop: 38543, Start Num: 8

Candidate Starts for Trax\_54:

(1, 37815), (2, 37950), (4, 37992), (5, 38007), (6, 38025), (Start: 8 @38052 has 7 MA's), (13, 38091), (29, 38262), (34, 38349), (39, 38388), (41, 38430), (42, 38442), (45, 38511),