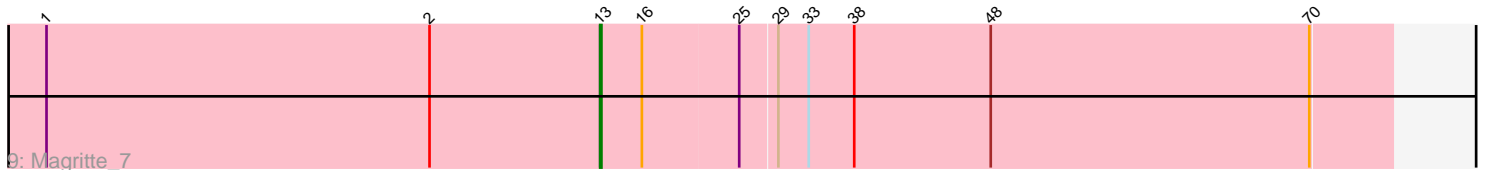
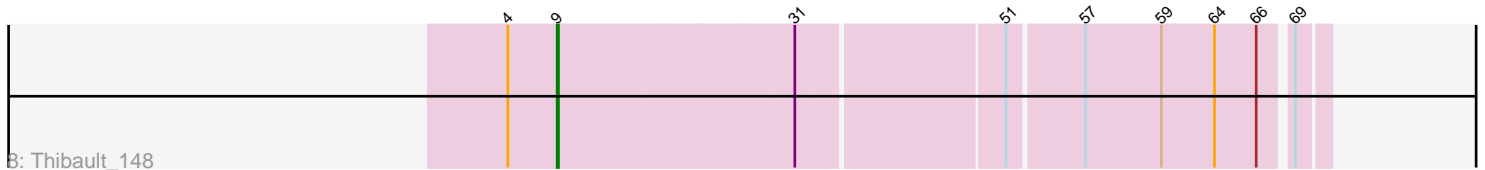
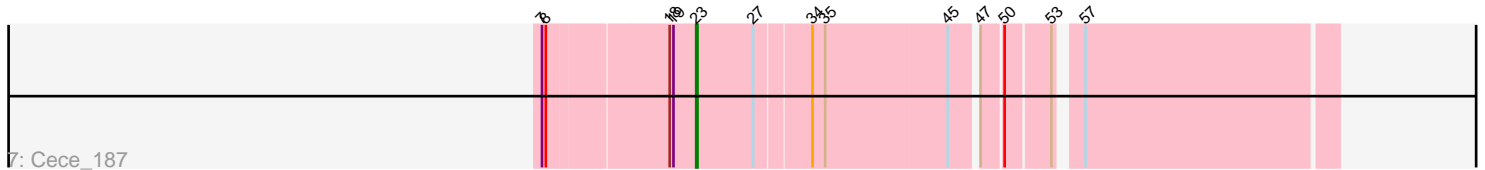
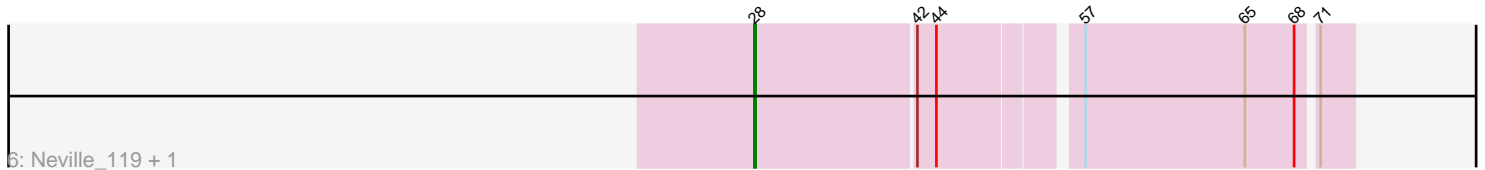
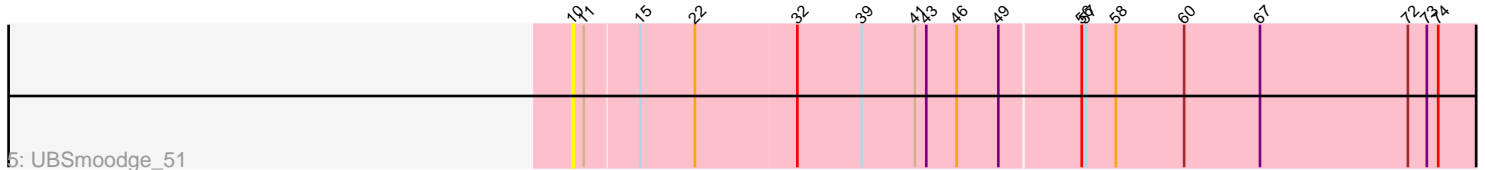
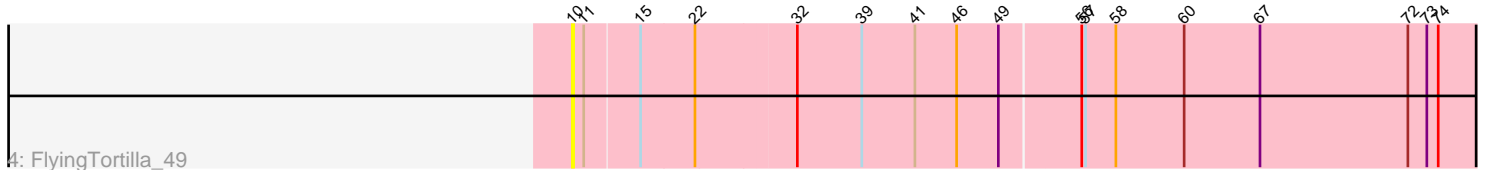
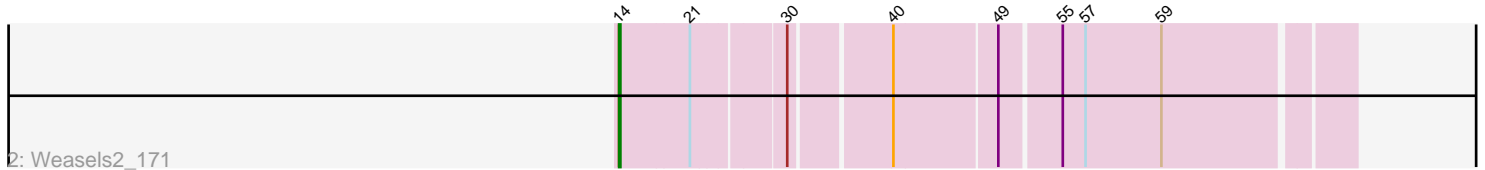
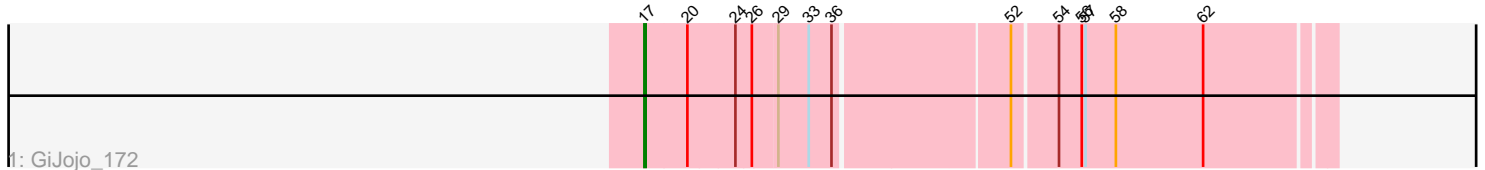


Pham 156855



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 156855 Report

This analysis was run 04/12/24 on database version 558.

Pham number 156855 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : GiJojo\_172
- Track 2 : Weasels2\_171
- Track 3 : Kabocha\_17
- Track 4 : FlyingTortilla\_49
- Track 5 : UBSmoodge\_51
- Track 6 : Neville\_119, Trax\_120
- Track 7 : Cece\_187
- Track 8 : Thibault\_148
- Track 9 : Magritte\_7

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

The start number called the most often in the published annotations is 28, it was called in 2 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Neville\_119, Trax\_120,

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

- 

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

- Cece\_187, FlyingTortilla\_49, GiJojo\_172, Kabocha\_17, Magritte\_7, Thibault\_148, UBSmoodge\_51, Weasels2\_171,

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

Start 9:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thibault\_148 (J),

Start 10:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FlyingTortilla\_49 (DQ), UBSmoodge\_51 (DQ),

Start 12:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kabocha\_17 (DQ),

Start 13:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Magritte\_7 (singleton),

Start 14:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weasels2\_171 (CB),

Start 17:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GiJojo\_172 (BS),

Start 23:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece\_187 (GD3),

Start 28:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Neville\_119 (DU2), Trax\_120 (DU2),

### **Summary by clusters:**

There are 7 clusters represented in this pham: singleton, GD3, CB, J, BS, DU2, DQ,

Info for manual annotations of cluster BS:

- Start number 17 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster CB:

- Start number 14 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster DQ:

- Start number 12 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DU2:

- Start number 28 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster GD3:

- Start number 23 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster J:

- Start number 9 was manually annotated 1 time for cluster J.

### **Gene Information:**

Gene: Cece\_187 Start: 114127, Stop: 113666, Start Num: 23

Candidate Starts for Cece\_187:

(7, 114241), (8, 114238), (18, 114148), (19, 114145), (Start: 23 @114127 has 1 MA's), (27, 114082), (34, 114043), (35, 114034), (45, 113941), (47, 113923), (50, 113908), (53, 113875), (57, 113860),

Gene: FlyingTortilla\_49 Start: 40285, Stop: 40998, Start Num: 10

Candidate Starts for FlyingTortilla\_49:

(10, 40285), (11, 40294), (15, 40336), (22, 40378), (32, 40453), (39, 40504), (41, 40546), (46, 40579), (49, 40612), (56, 40672), (57, 40675), (58, 40699), (60, 40753), (67, 40813), (72, 40930), (73, 40945), (74, 40954),

Gene: GiJojo\_172 Start: 92929, Stop: 93441, Start Num: 17

Candidate Starts for GiJojo\_172:

(Start: 17 @92929 has 1 MA's), (20, 92962), (24, 92998), (26, 93010), (29, 93028), (33, 93052), (36, 93070), (52, 93199), (54, 93232), (56, 93250), (57, 93253), (58, 93277), (62, 93346),

Gene: Kabocha\_17 Start: 7748, Stop: 8341, Start Num: 12

Candidate Starts for Kabocha\_17:

(3, 7634), (5, 7682), (6, 7703), (Start: 12 @7748 has 1 MA's), (37, 7934), (42, 7991), (54, 8090), (55, 8093), (56, 8108), (57, 8111), (58, 8135), (59, 8171), (60, 8189), (61, 8198), (63, 8210), (66, 8246), (67, 8249),

Gene: Magritte\_7 Start: 4005, Stop: 4622, Start Num: 13

Candidate Starts for Magritte\_7:

(1, 3567), (2, 3870), (Start: 13 @4005 has 1 MA's), (16, 4038), (25, 4113), (29, 4140), (33, 4164), (38, 4200), (48, 4308), (70, 4560),

Gene: Neville\_119 Start: 67317, Stop: 67757, Start Num: 28

Candidate Starts for Neville\_119:

(Start: 28 @67317 has 2 MA's), (42, 67440), (44, 67455), (57, 67554), (65, 67680), (68, 67719), (71, 67731),

Gene: Thibault\_148 Start: 84205, Stop: 84771, Start Num: 9

Candidate Starts for Thibault\_148:

(4, 84166), (Start: 9 @84205 has 1 MA's), (31, 84382), (51, 84535), (57, 84592), (59, 84652), (64, 84694), (66, 84727), (69, 84748),

Gene: Trax\_120 Start: 68137, Stop: 68577, Start Num: 28

Candidate Starts for Trax\_120:

(Start: 28 @68137 has 2 MA's), (42, 68260), (44, 68275), (57, 68374), (65, 68500), (68, 68539), (71, 68551),

Gene: UBSmoodge\_51 Start: 40051, Stop: 40764, Start Num: 10

Candidate Starts for UBSmoodge\_51:

(10, 40051), (11, 40060), (15, 40102), (22, 40144), (32, 40219), (39, 40270), (41, 40312), (43, 40321), (46, 40345), (49, 40378), (56, 40438), (57, 40441), (58, 40465), (60, 40519), (67, 40579), (72, 40696), (73, 40711), (74, 40720),

Gene: Weasels2\_171 Start: 93400, Stop: 93933, Start Num: 14

Candidate Starts for Weasels2\_171:

(Start: 14 @93400 has 1 MA's), (21, 93454), (30, 93520), (40, 93592), (49, 93670), (55, 93715), (57, 93733), (59, 93793),