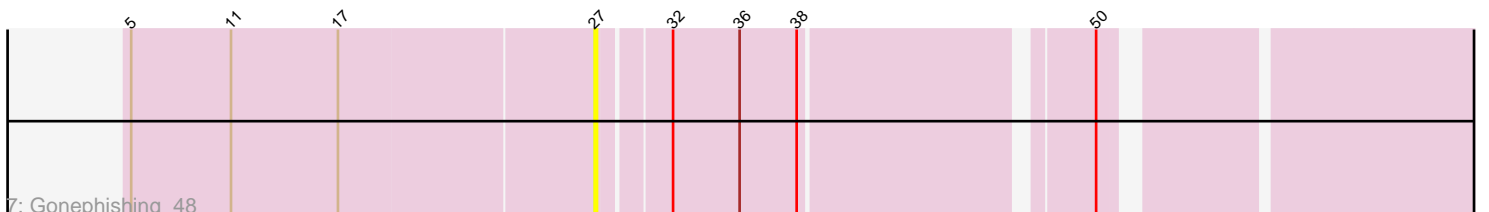
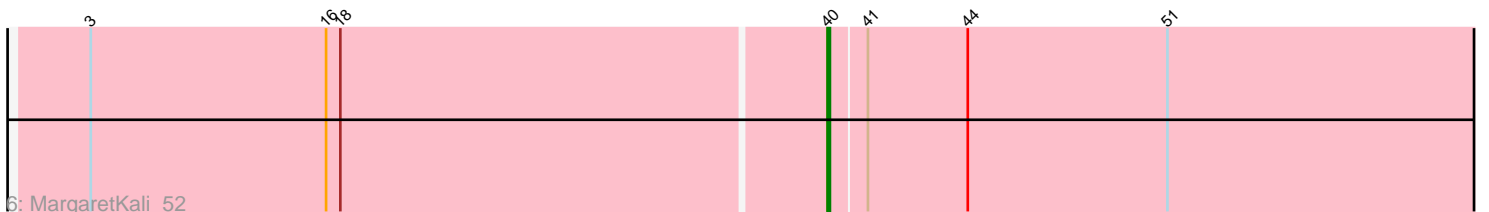
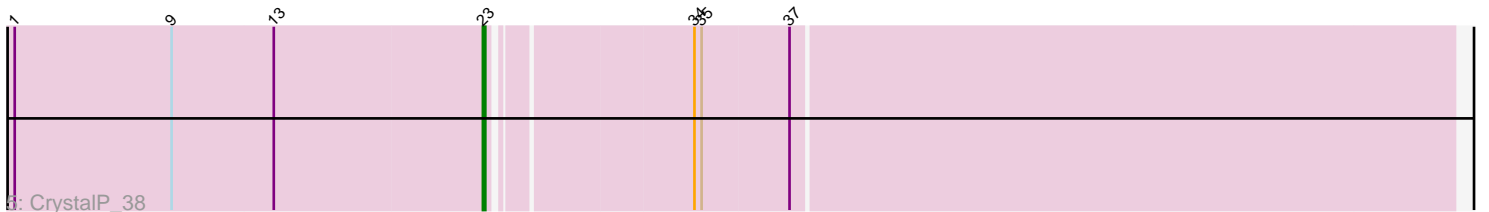
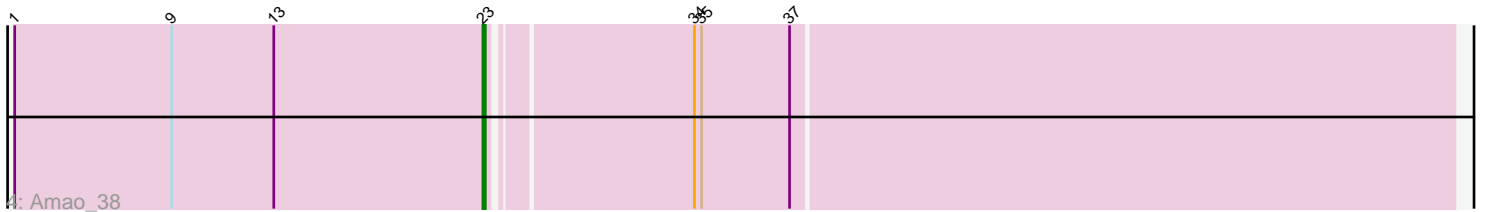
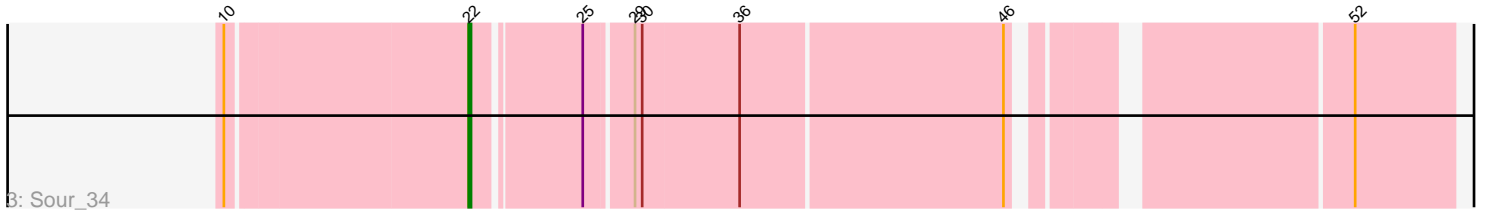
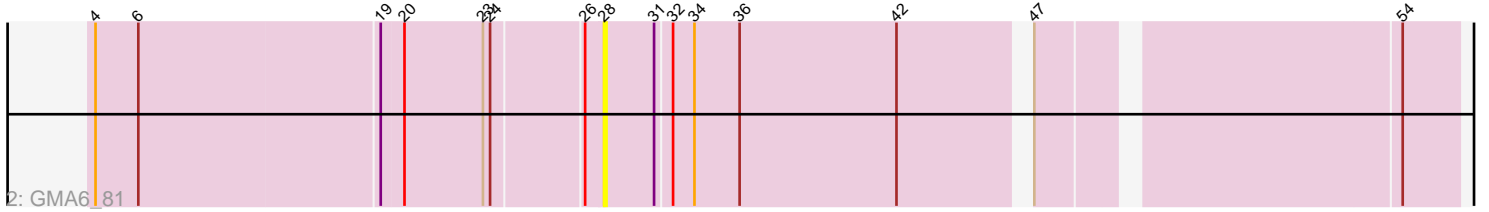
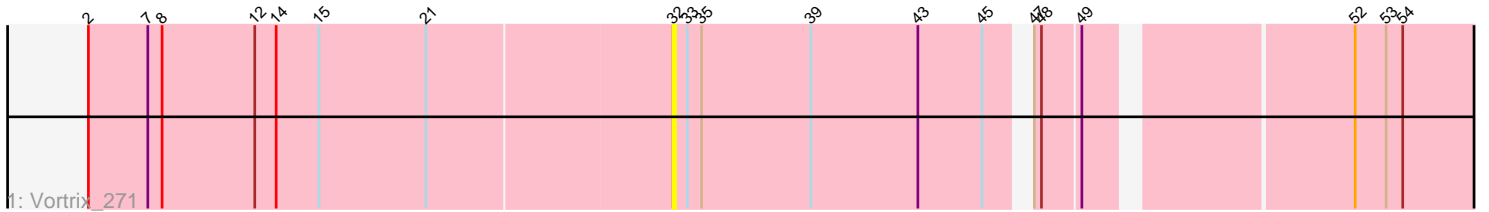


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 295426 Report

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

Pham number 295426 has 7 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Vortrix\_271
- Track 2 : GMA6\_81
- Track 3 : Sour\_34
- Track 4 : Amao\_38
- Track 5 : CrystalP\_38
- Track 6 : MargaretKali\_52
- Track 7 : Gonephishing\_48

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

The start number called the most often in the published annotations is 23, it was called in 2 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amao\_38, CrystalP\_38,

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

- GMA6\_81,

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

- Gonephishing\_48, MargaretKali\_52, Sour\_34, Vortrix\_271,

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

Start 22:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sour\_34 (DR),

Start 23:

- Found in 3 of 7 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 2 of 4
- Called 66.7% of time when present

- Phage (with cluster) where this start called: Amao\_38 (E), CrystalP\_38 (E),

Start 27:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gonephishing\_48 (J),

Start 28:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA6\_81 (DQ),

Start 32:

- Found in 3 of 7 ( 42.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Vortrix\_271 (C1),

Start 40:

- Found in 1 of 7 ( 14.3% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MargaretKali\_52 (FB),

### **Summary by clusters:**

There are 6 clusters represented in this pham: E, J, FB, C1, DR, DQ,

Info for manual annotations of cluster DR:

- Start number 22 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster E:

- Start number 23 was manually annotated 2 times for cluster E.

Info for manual annotations of cluster FB:

- Start number 40 was manually annotated 1 time for cluster FB.

### **Gene Information:**

Gene: Amao\_38 Start: 33138, Stop: 32746, Start Num: 23

Candidate Starts for Amao\_38:

(1, 33333), (9, 33267), (13, 33225), (Start: 23 @33138 has 2 MA's), (34, 33060), (35, 33057), (37, 33021),

Gene: CrystalP\_38 Start: 33934, Stop: 33542, Start Num: 23

Candidate Starts for CrystalP\_38:

(1, 34129), (9, 34063), (13, 34021), (Start: 23 @33934 has 2 MA's), (34, 33856), (35, 33853), (37, 33817),

Gene: GMA6\_81 Start: 64168, Stop: 64497, Start Num: 28

Candidate Starts for GMA6\_81:

(4, 63964), (6, 63982), (19, 64081), (20, 64090), (Start: 23 @64123 has 2 MA's), (24, 64126), (26, 64162), (28, 64168), (31, 64189), (32, 64195), (34, 64204), (36, 64222), (42, 64288), (47, 64336), (54, 64474),

Gene: Gonephishing\_48 Start: 38804, Stop: 38457, Start Num: 27

Candidate Starts for Gonephishing\_48:

(5, 38996), (11, 38954), (17, 38909), (27, 38804), (32, 38777), (36, 38750), (38, 38726), (50, 38615),

Gene: MargaretKali\_52 Start: 31304, Stop: 31582, Start Num: 40

Candidate Starts for MargaretKali\_52:

(3, 30998), (16, 31097), (18, 31103), (Start: 40 @31304 has 1 MA's), (41, 31319), (44, 31361), (51, 31445),

Gene: Sour\_34 Start: 32659, Stop: 32288, Start Num: 22

Candidate Starts for Sour\_34:

(10, 32755), (Start: 22 @32659 has 1 MA's), (25, 32617), (29, 32599), (30, 32596), (36, 32557), (46, 32449), (52, 32329),

Gene: Vortrix\_271 Start: 149684, Stop: 149989, Start Num: 32

Candidate Starts for Vortrix\_271:

(2, 149444), (7, 149468), (8, 149474), (12, 149513), (14, 149522), (15, 149540), (21, 149585), (32, 149684), (33, 149690), (35, 149696), (39, 149741), (43, 149786), (45, 149813), (47, 149825), (48, 149828), (49, 149843), (52, 149942), (53, 149954), (54, 149960),