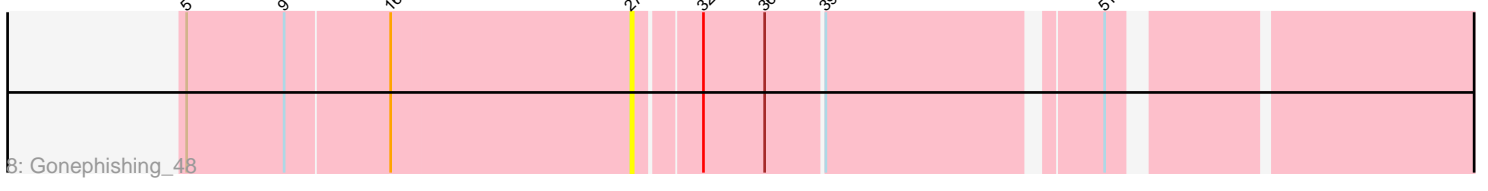
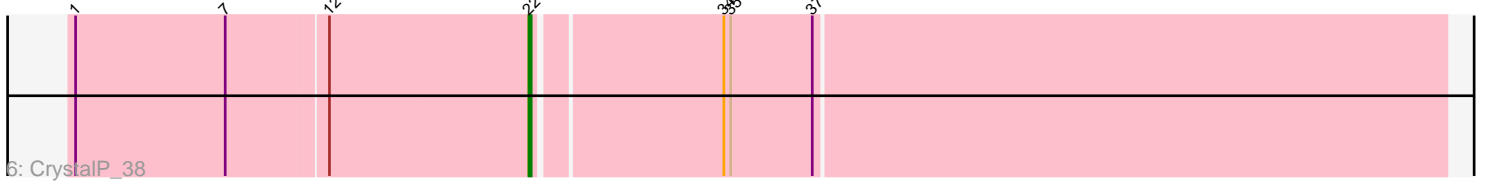
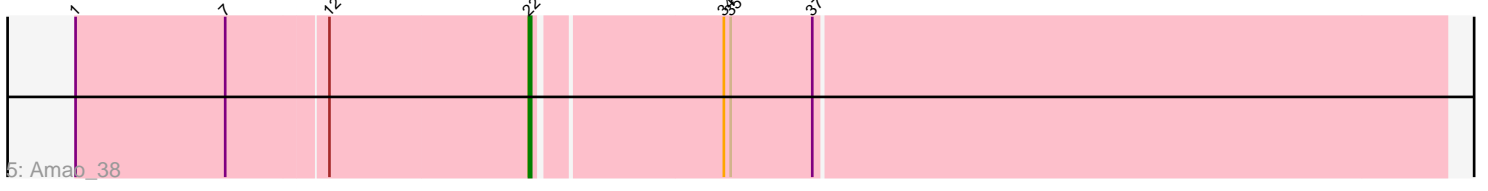
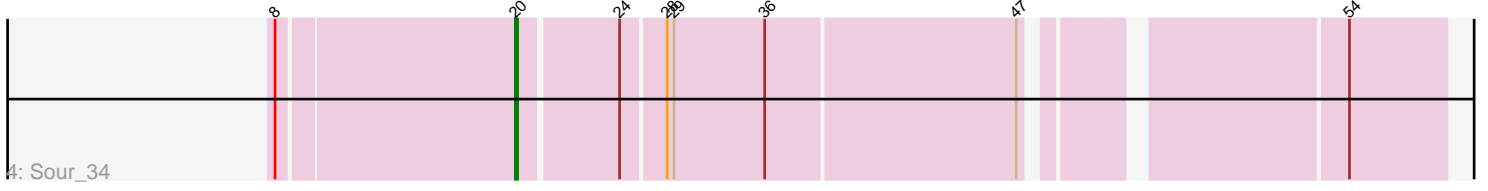
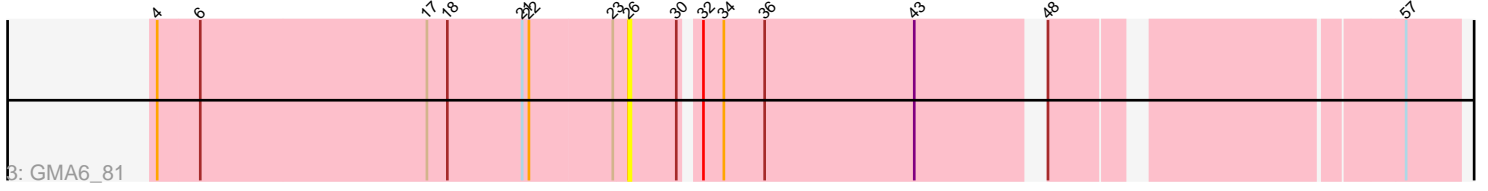
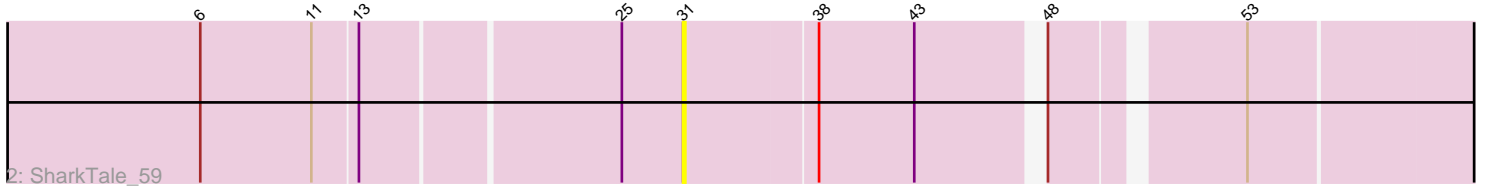
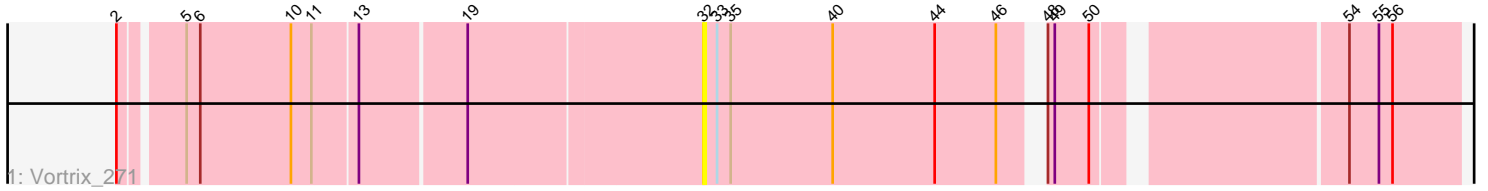


Pham 303919



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 303919 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303919 has 8 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Vortrix_271
- Track 2 : SharkTale_59
- Track 3 : GMA6_81
- Track 4 : Sour_34
- Track 5 : Amao_38
- Track 6 : CrystalP_38
- Track 7 : MargaretKali_52
- Track 8 : 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 22, 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, SharkTale_59, Sour_34, Vortrix_271,

Summary by start number:

Start 20:

- Found in 1 of 8 (12.5%) 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 22:

- Found in 3 of 8 (37.5%) 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 26:

- Found in 1 of 8 (12.5%) 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 27:

- Found in 1 of 8 (12.5%) 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 31:

- Found in 1 of 8 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SharkTale_59 (DC1),

Start 32:

- Found in 3 of 8 (37.5%) 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 41:

- Found in 1 of 8 (12.5%) 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 7 clusters represented in this pham: E, J, FB, C1, DQ, DR, DC1,

Info for manual annotations of cluster DR:

- Start number 20 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster E:

- Start number 22 was manually annotated 2 times for cluster E.

Info for manual annotations of cluster FB:

- Start number 41 was manually annotated 1 time for cluster FB.

Gene Information:

Gene: Amao_38 Start: 33138, Stop: 32746, Start Num: 22

Candidate Starts for Amao_38:

(1, 33333), (7, 33267), (12, 33225), (Start: 22 @33138 has 2 MA's), (34, 33060), (35, 33057), (37, 33021),

Gene: CrystalP_38 Start: 33934, Stop: 33542, Start Num: 22

Candidate Starts for CrystalP_38:

(1, 34129), (7, 34063), (12, 34021), (Start: 22 @33934 has 2 MA's), (34, 33856), (35, 33853), (37, 33817),

Gene: GMA6_81 Start: 64168, Stop: 64497, Start Num: 26

Candidate Starts for GMA6_81:

(4, 63964), (6, 63982), (17, 64081), (18, 64090), (21, 64123), (Start: 22 @64126 has 2 MA's), (23, 64162), (26, 64168), (30, 64189), (32, 64195), (34, 64204), (36, 64222), (43, 64288), (48, 64336), (57, 64474),

Gene: Gonephishing_48 Start: 38804, Stop: 38457, Start Num: 27

Candidate Starts for Gonephishing_48:

(5, 38996), (9, 38954), (16, 38909), (27, 38804), (32, 38777), (36, 38750), (39, 38726), (51, 38615),

Gene: MargaretKali_52 Start: 31304, Stop: 31582, Start Num: 41

Candidate Starts for MargaretKali_52:

(3, 30998), (14, 31097), (15, 31103), (Start: 41 @31304 has 1 MA's), (42, 31319), (45, 31361), (52, 31445),

Gene: SharkTale_59 Start: 44261, Stop: 44587, Start Num: 31

Candidate Starts for SharkTale_59:

(6, 44060), (11, 44108), (13, 44126), (25, 44234), (31, 44261), (38, 44318), (43, 44360), (48, 44408), (53, 44483),

Gene: Sour_34 Start: 32659, Stop: 32288, Start Num: 20

Candidate Starts for Sour_34:

(8, 32755), (Start: 20 @32659 has 1 MA's), (24, 32617), (28, 32599), (29, 32596), (36, 32557), (47, 32449), (54, 32329),

Gene: Vortrix_271 Start: 149684, Stop: 149989, Start Num: 32

Candidate Starts for Vortrix_271:

(2, 149444), (5, 149468), (6, 149474), (10, 149513), (11, 149522), (13, 149540), (19, 149585), (32, 149684), (33, 149690), (35, 149696), (40, 149741), (44, 149786), (46, 149813), (48, 149825), (49, 149828), (50, 149843), (54, 149942), (55, 149954), (56, 149960),