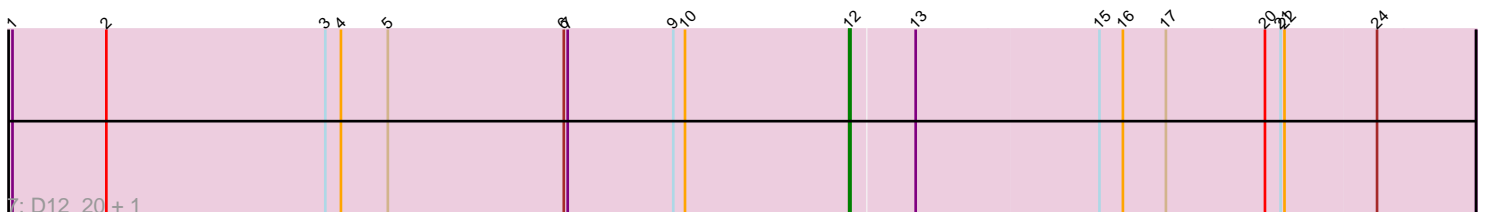
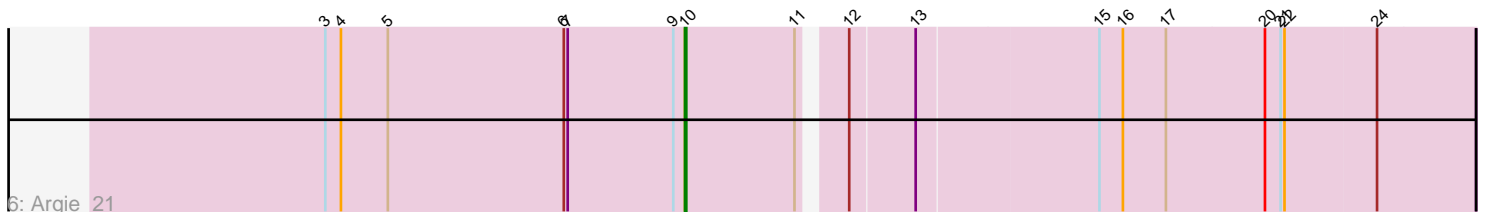
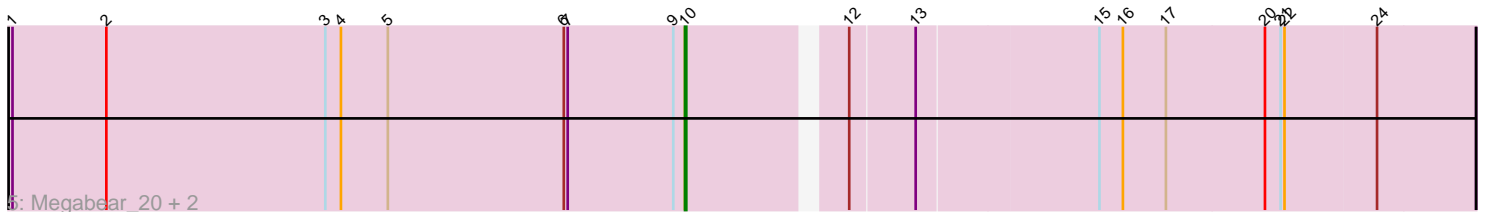
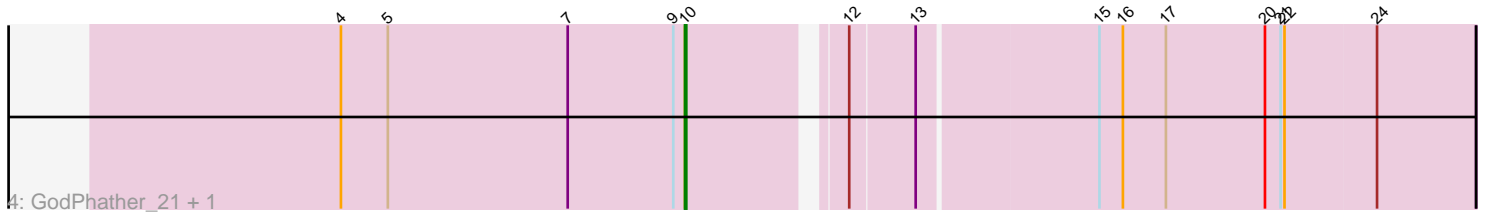
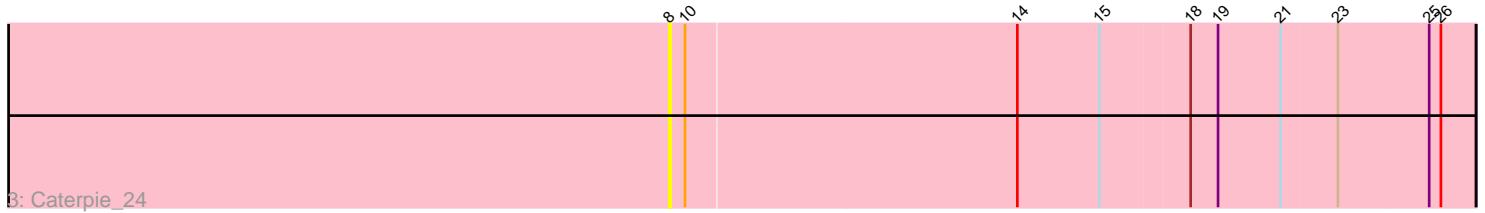
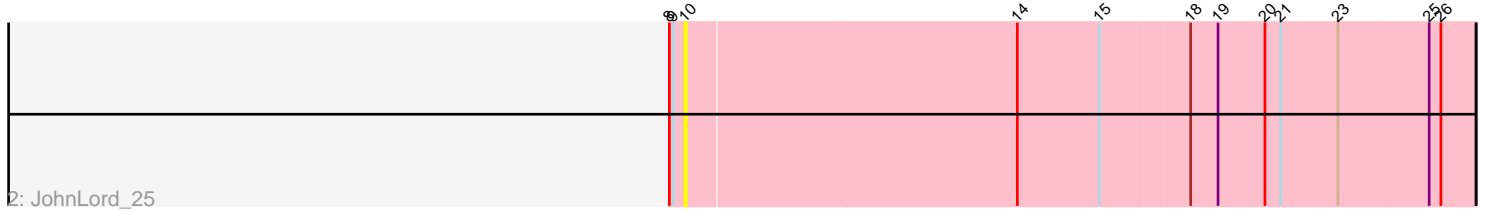
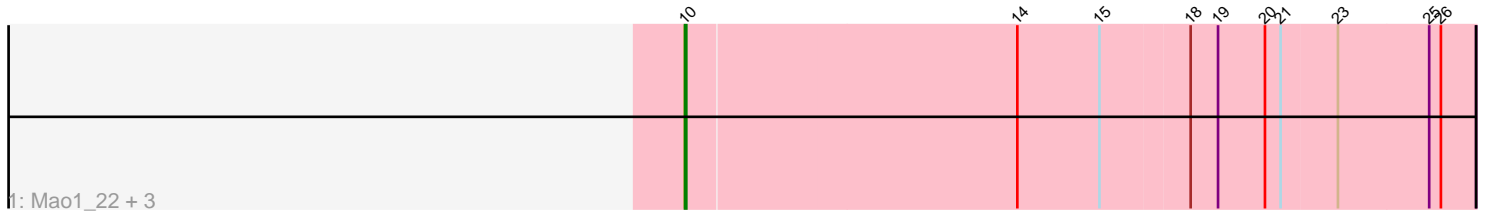


Pham 305410



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 305410 Report

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

Pham number 305410 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Mao1_22, Mask_23, Dori_23, Sejanus_23
- Track 2 : JohnLord_25
- Track 3 : Caterpie_24
- Track 4 : GodPhather_21, Jeon_20
- Track 5 : Megabear_20, Cepens_20, Taptic_20
- Track 6 : Argie_21
- Track 7 : D12_20, PR_20

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

The start number called the most often in the published annotations is 10, it was called in 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Argie_21, Cepens_20, Dori_23, GodPhather_21, Jeon_20, JohnLord_25, Mao1_22, Mask_23, Megabear_20, Sejanus_23, Taptic_20,

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

- Caterpie_24, D12_20, PR_20,

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

-

Summary by start number:

Start 8:

- Found in 2 of 14 (14.3%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Caterpie_24 (AD),

Start 10:

- Found in 14 of 14 (100.0%) of genes in pham
- Manual Annotations of this start: 10 of 12

- Called 78.6% of time when present
- Phage (with cluster) where this start called: Argie_21 (W), Cepens_20 (W), Dori_23 (AD), GodPhather_21 (W), Jeon_20 (W), JohnLord_25 (AD), Mao1_22 (AD), Mask_23 (AD), Megabear_20 (W), Sejanus_23 (AD), Taptic_20 (W),

Start 12:

- Found in 8 of 14 (57.1%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 25.0% of time when present
- Phage (with cluster) where this start called: D12_20 (W), PR_20 (W),

Summary by clusters:

There are 2 clusters represented in this pham: AD, W,

Info for manual annotations of cluster AD:

- Start number 10 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster W:

- Start number 10 was manually annotated 6 times for cluster W.
- Start number 12 was manually annotated 2 times for cluster W.

Gene Information:

Gene: Argie_21 Start: 18900, Stop: 19478, Start Num: 10

Candidate Starts for Argie_21:

(3, 18624), (4, 18636), (5, 18672), (6, 18807), (7, 18810), (9, 18891), (Start: 10 @18900 has 10 MA's), (11, 18984), (Start: 12 @19011 has 2 MA's), (13, 19059), (15, 19194), (16, 19212), (17, 19245), (20, 19320), (21, 19332), (22, 19335), (24, 19404),

Gene: Caterpie_24 Start: 17888, Stop: 18493, Start Num: 8

Candidate Starts for Caterpie_24:

(8, 17888), (Start: 10 @17900 has 10 MA's), (14, 18149), (15, 18212), (18, 18278), (19, 18299), (21, 18347), (23, 18389), (25, 18458), (26, 18467),

Gene: Cepens_20 Start: 18624, Stop: 19199, Start Num: 10

Candidate Starts for Cepens_20:

(1, 18108), (2, 18180), (3, 18348), (4, 18360), (5, 18396), (6, 18531), (7, 18534), (9, 18615), (Start: 10 @18624 has 10 MA's), (Start: 12 @18732 has 2 MA's), (13, 18780), (15, 18915), (16, 18933), (17, 18966), (20, 19041), (21, 19053), (22, 19056), (24, 19125),

Gene: D12_20 Start: 18743, Stop: 19213, Start Num: 12

Candidate Starts for D12_20:

(1, 18101), (2, 18173), (3, 18341), (4, 18353), (5, 18389), (6, 18524), (7, 18527), (9, 18608), (Start: 10 @18617 has 10 MA's), (Start: 12 @18743 has 2 MA's), (13, 18791), (15, 18929), (16, 18947), (17, 18980), (20, 19055), (21, 19067), (22, 19070), (24, 19139),

Gene: Dori_23 Start: 16796, Stop: 17389, Start Num: 10

Candidate Starts for Dori_23:

(Start: 10 @16796 has 10 MA's), (14, 17045), (15, 17108), (18, 17174), (19, 17195), (20, 17231), (21, 17243), (23, 17285), (25, 17354), (26, 17363),

Gene: GodPhather_21 Start: 18903, Stop: 19472, Start Num: 10

Candidate Starts for GodPhather_21:

(4, 18639), (5, 18675), (7, 18813), (9, 18894), (Start: 10 @18903 has 10 MA's), (Start: 12 @19008 has 2 MA's), (13, 19056), (15, 19188), (16, 19206), (17, 19239), (20, 19314), (21, 19326), (22, 19329), (24, 19398),

Gene: Jeon_20 Start: 18645, Stop: 19214, Start Num: 10

Candidate Starts for Jeon_20:

(4, 18381), (5, 18417), (7, 18555), (9, 18636), (Start: 10 @18645 has 10 MA's), (Start: 12 @18750 has 2 MA's), (13, 18798), (15, 18930), (16, 18948), (17, 18981), (20, 19056), (21, 19068), (22, 19071), (24, 19140),

Gene: JohnLord_25 Start: 17405, Stop: 17998, Start Num: 10

Candidate Starts for JohnLord_25:

(8, 17393), (9, 17396), (Start: 10 @17405 has 10 MA's), (14, 17654), (15, 17717), (18, 17783), (19, 17804), (20, 17840), (21, 17852), (23, 17894), (25, 17963), (26, 17972),

Gene: Mao1_22 Start: 17208, Stop: 17801, Start Num: 10

Candidate Starts for Mao1_22:

(Start: 10 @17208 has 10 MA's), (14, 17457), (15, 17520), (18, 17586), (19, 17607), (20, 17643), (21, 17655), (23, 17697), (25, 17766), (26, 17775),

Gene: Mask_23 Start: 17201, Stop: 17794, Start Num: 10

Candidate Starts for Mask_23:

(Start: 10 @17201 has 10 MA's), (14, 17450), (15, 17513), (18, 17579), (19, 17600), (20, 17636), (21, 17648), (23, 17690), (25, 17759), (26, 17768),

Gene: Megabear_20 Start: 18567, Stop: 19142, Start Num: 10

Candidate Starts for Megabear_20:

(1, 18051), (2, 18123), (3, 18291), (4, 18303), (5, 18339), (6, 18474), (7, 18477), (9, 18558), (Start: 10 @18567 has 10 MA's), (Start: 12 @18675 has 2 MA's), (13, 18723), (15, 18858), (16, 18876), (17, 18909), (20, 18984), (21, 18996), (22, 18999), (24, 19068),

Gene: PR_20 Start: 18720, Stop: 19190, Start Num: 12

Candidate Starts for PR_20:

(1, 18078), (2, 18150), (3, 18318), (4, 18330), (5, 18366), (6, 18501), (7, 18504), (9, 18585), (Start: 10 @18594 has 10 MA's), (Start: 12 @18720 has 2 MA's), (13, 18768), (15, 18906), (16, 18924), (17, 18957), (20, 19032), (21, 19044), (22, 19047), (24, 19116),

Gene: Sejanus_23 Start: 18142, Stop: 18735, Start Num: 10

Candidate Starts for Sejanus_23:

(Start: 10 @18142 has 10 MA's), (14, 18391), (15, 18454), (18, 18520), (19, 18541), (20, 18577), (21, 18589), (23, 18631), (25, 18700), (26, 18709),

Gene: Taptic_20 Start: 18567, Stop: 19142, Start Num: 10

Candidate Starts for Taptic_20:

(1, 18051), (2, 18123), (3, 18291), (4, 18303), (5, 18339), (6, 18474), (7, 18477), (9, 18558), (Start: 10 @18567 has 10 MA's), (Start: 12 @18675 has 2 MA's), (13, 18723), (15, 18858), (16, 18876), (17, 18909), (20, 18984), (21, 18996), (22, 18999), (24, 19068),