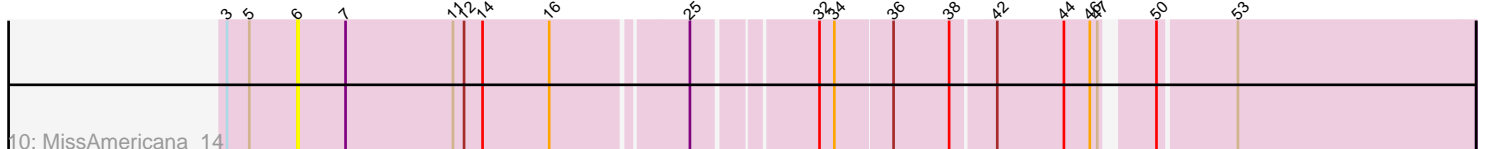
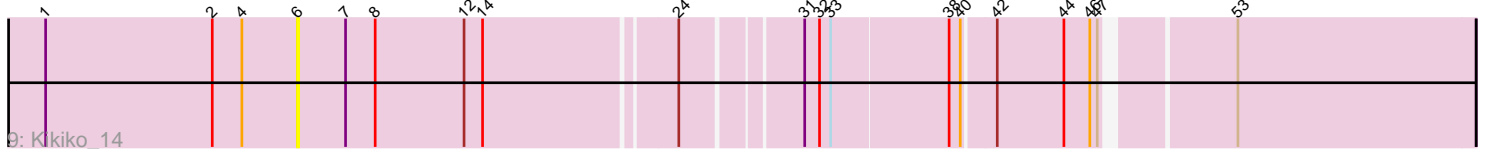
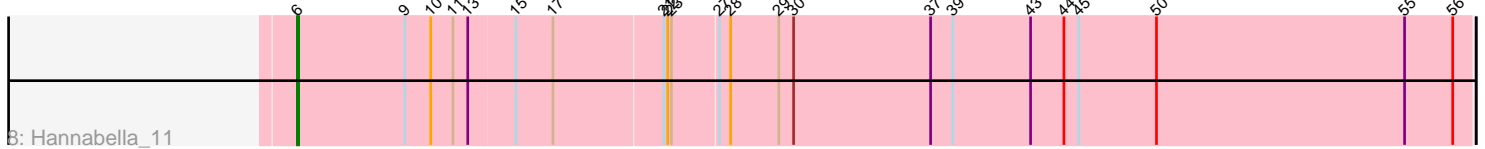
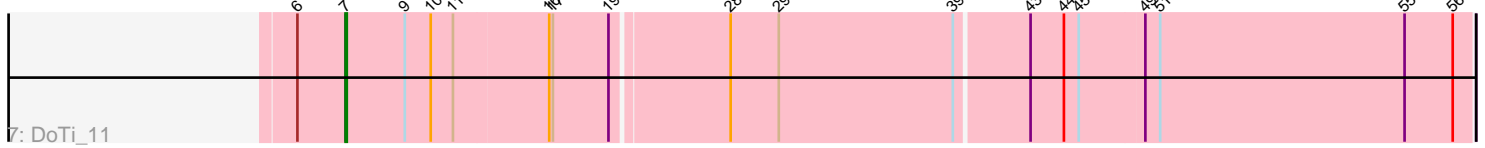
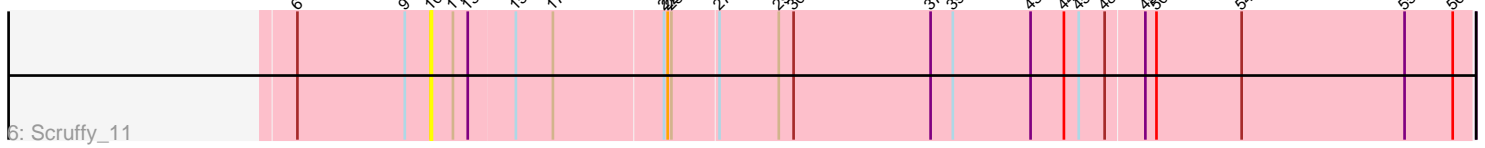
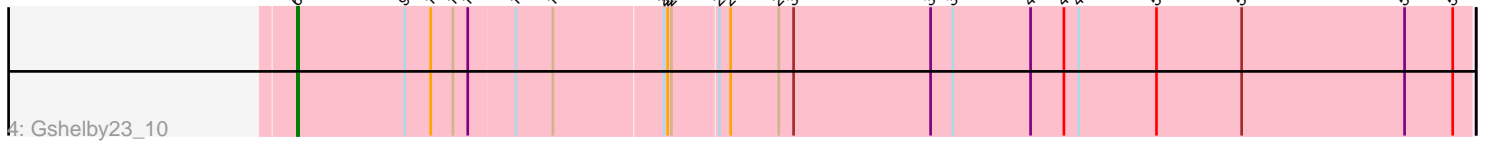
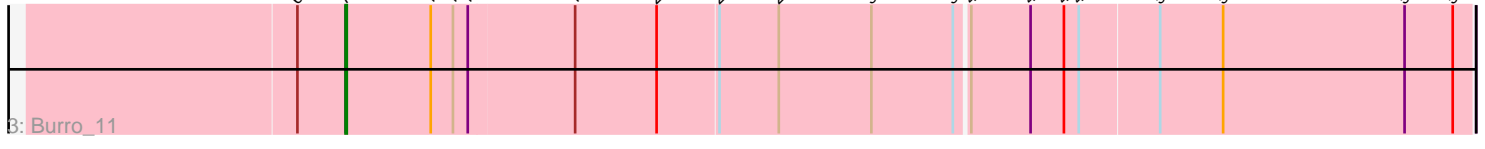
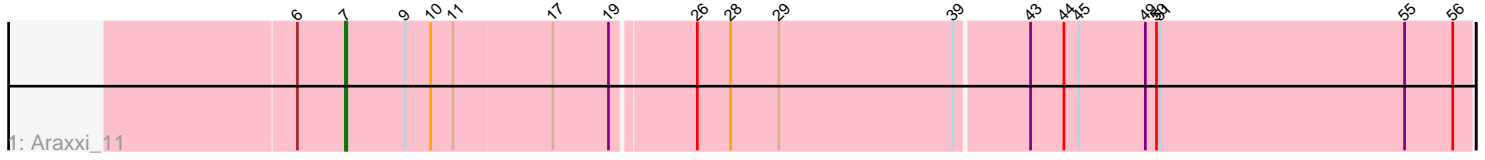


Pham 158368



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 158368 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158368 has 10 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Araxxi_11
- Track 2 : Arete_12
- Track 3 : Burro_11
- Track 4 : Gshelby23_10
- Track 5 : Casino_10
- Track 6 : Scruffy_11
- Track 7 : DoTi_11
- Track 8 : Hannabella_11
- Track 9 : Kikiko_14
- Track 10 : MissAmericana_14

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

The start number called the most often in the published annotations is 7, it was called in 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Araxxi_11, Burro_11, DoTi_11,

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

- Kikiko_14, MissAmericana_14,

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

- Arete_12, Casino_10, Gshelby23_10, Hannabella_11, Scruffy_11,

Summary by start number:

Start 6:

- Found in 10 of 10 (100.0%) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Arete_12 (EM1), Casino_10 (EM1), Gshelby23_10 (EM1), Hannabella_11 (EM1), Kikiko_14 (EM2), MissAmericana_14 (EM2),

Start 7:

- Found in 5 of 10 (50.0%) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Araxxi_11 (EM1), Burro_11 (EM1), DoTi_11 (EM1),

Start 10:

- Found in 8 of 10 (80.0%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Scruffy_11 (EM1),

Summary by clusters:

There are 2 clusters represented in this pham: EM1, EM2,

Info for manual annotations of cluster EM1:

- Start number 6 was manually annotated 3 times for cluster EM1.
- Start number 7 was manually annotated 3 times for cluster EM1.

Gene Information:

Gene: Araxxi_11 Start: 9119, Stop: 8229, Start Num: 7

Candidate Starts for Araxxi_11:

(Start: 6 @9158 has 3 MA's), (Start: 7 @9119 has 3 MA's), (9, 9071), (10, 9050), (11, 9032), (17, 8954), (19, 8909), (26, 8846), (28, 8819), (29, 8780), (39, 8639), (43, 8582), (44, 8555), (45, 8543), (49, 8492), (50, 8483), (51, 8480), (55, 8282), (56, 8243),

Gene: Arete_12 Start: 9062, Stop: 8124, Start Num: 6

Candidate Starts for Arete_12:

(Start: 6 @9062 has 3 MA's), (9, 8975), (10, 8954), (13, 8924), (15, 8888), (17, 8858), (21, 8771), (22, 8768), (23, 8765), (27, 8729), (29, 8681), (30, 8669), (37, 8558), (39, 8540), (43, 8477), (44, 8450), (45, 8438), (50, 8378), (54, 8309), (55, 8177), (56, 8138),

Gene: Burro_11 Start: 8812, Stop: 7916, Start Num: 7

Candidate Starts for Burro_11:

(Start: 6 @8851 has 3 MA's), (Start: 7 @8812 has 3 MA's), (10, 8743), (11, 8725), (13, 8713), (18, 8629), (20, 8563), (27, 8515), (29, 8467), (35, 8392), (39, 8326), (41, 8317), (43, 8269), (44, 8242), (45, 8230), (51, 8167), (52, 8116), (55, 7969), (56, 7930),

Gene: Casino_10 Start: 8891, Stop: 7953, Start Num: 6

Candidate Starts for Casino_10:

(Start: 6 @8891 has 3 MA's), (9, 8804), (10, 8783), (11, 8765), (13, 8753), (15, 8717), (17, 8687), (21, 8600), (22, 8597), (23, 8594), (27, 8558), (29, 8510), (30, 8498), (37, 8387), (39, 8369), (43, 8306), (44, 8279), (45, 8267), (48, 8246), (49, 8216), (50, 8207), (54, 8138), (55, 8006), (56, 7967),

Gene: DoTi_11 Start: 9101, Stop: 8211, Start Num: 7

Candidate Starts for DoTi_11:

(Start: 6 @9140 has 3 MA's), (Start: 7 @9101 has 3 MA's), (9, 9053), (10, 9032), (11, 9014), (16, 8939), (17, 8936), (19, 8891), (28, 8801), (29, 8762), (39, 8621), (43, 8564), (44, 8537), (45, 8525), (49, 8474), (51, 8462), (55, 8264), (56, 8225),

Gene: Gshelby23_10 Start: 9008, Stop: 8067, Start Num: 6

Candidate Starts for Gshelby23_10:

(Start: 6 @9008 has 3 MA's), (9, 8921), (10, 8900), (11, 8882), (13, 8870), (15, 8834), (17, 8804), (21, 8717), (22, 8714), (23, 8711), (27, 8675), (28, 8666), (29, 8627), (30, 8615), (37, 8504), (39, 8486), (43, 8423), (44, 8396), (45, 8384), (50, 8321), (54, 8252), (55, 8120), (56, 8081),

Gene: Hannabella_11 Start: 8888, Stop: 7947, Start Num: 6

Candidate Starts for Hannabella_11:

(Start: 6 @8888 has 3 MA's), (9, 8801), (10, 8780), (11, 8762), (13, 8750), (15, 8714), (17, 8684), (21, 8597), (22, 8594), (23, 8591), (27, 8555), (28, 8546), (29, 8507), (30, 8495), (37, 8384), (39, 8366), (43, 8303), (44, 8276), (45, 8264), (50, 8201), (55, 8000), (56, 7961),

Gene: Kikiko_14 Start: 10158, Stop: 9262, Start Num: 6

Candidate Starts for Kikiko_14:

(1, 10362), (2, 10227), (4, 10203), (Start: 6 @10158 has 3 MA's), (Start: 7 @10119 has 3 MA's), (8, 10095), (12, 10023), (14, 10008), (24, 9861), (31, 9774), (32, 9762), (33, 9753), (38, 9660), (40, 9651), (42, 9627), (44, 9573), (46, 9552), (47, 9546), (53, 9453),

Gene: MissAmericana_14 Start: 9931, Stop: 9035, Start Num: 6

Candidate Starts for MissAmericana_14:

(3, 9988), (5, 9970), (Start: 6 @9931 has 3 MA's), (Start: 7 @9892 has 3 MA's), (11, 9805), (12, 9796), (14, 9781), (16, 9727), (25, 9625), (32, 9535), (34, 9523), (36, 9478), (38, 9433), (42, 9400), (44, 9346), (46, 9325), (47, 9319), (50, 9286), (53, 9226),

Gene: Scruffy_11 Start: 9179, Stop: 8349, Start Num: 10

Candidate Starts for Scruffy_11:

(Start: 6 @9287 has 3 MA's), (9, 9200), (10, 9179), (11, 9161), (13, 9149), (15, 9113), (17, 9083), (21, 8996), (22, 8993), (23, 8990), (27, 8954), (29, 8906), (30, 8894), (37, 8783), (39, 8765), (43, 8702), (44, 8675), (45, 8663), (48, 8642), (49, 8612), (50, 8603), (54, 8534), (55, 8402), (56, 8363),