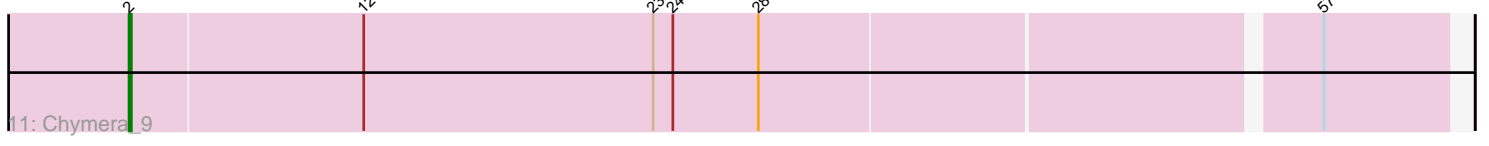
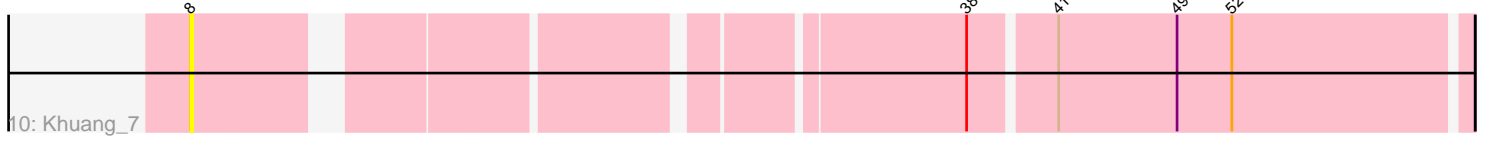
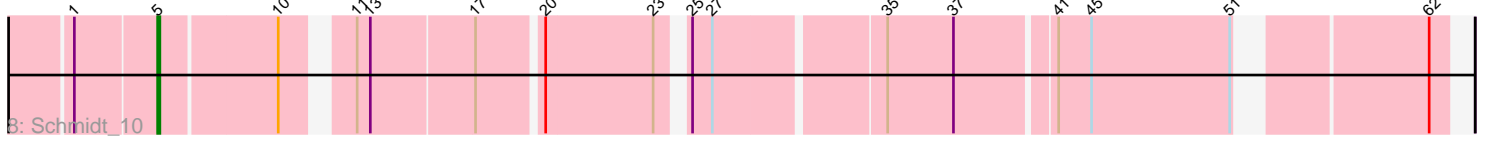
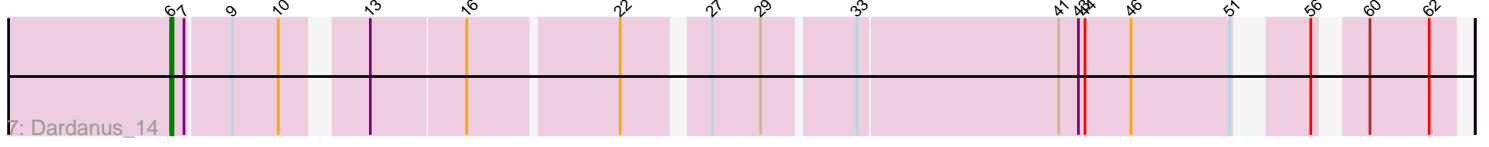
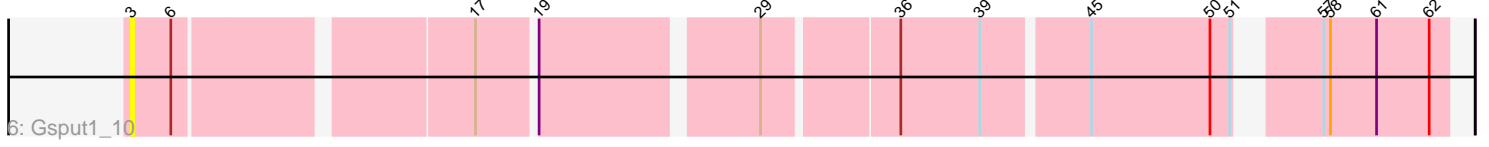
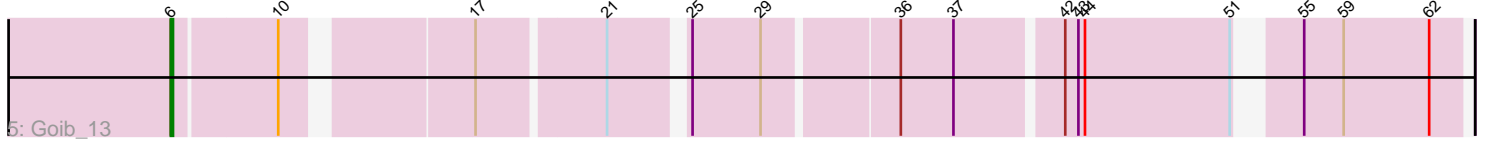
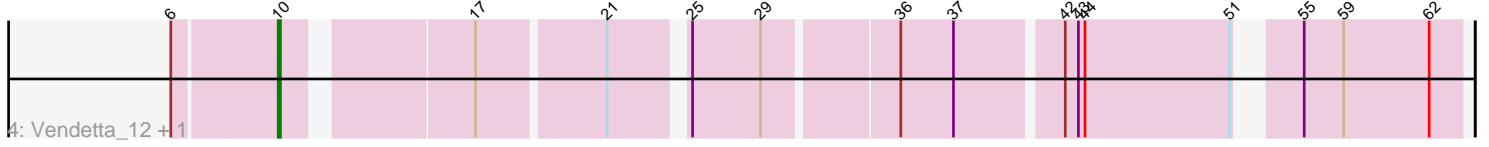
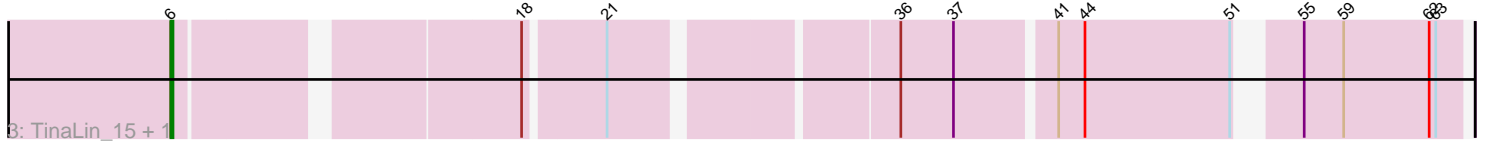
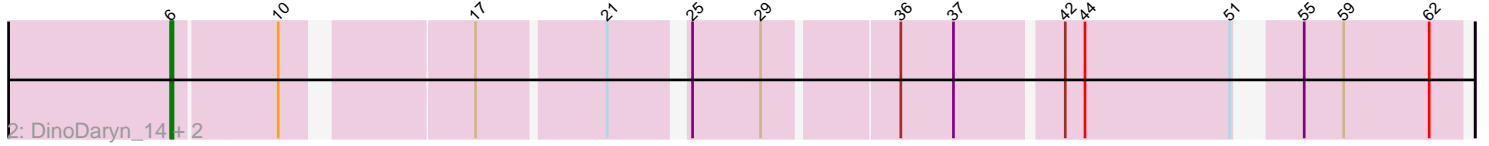
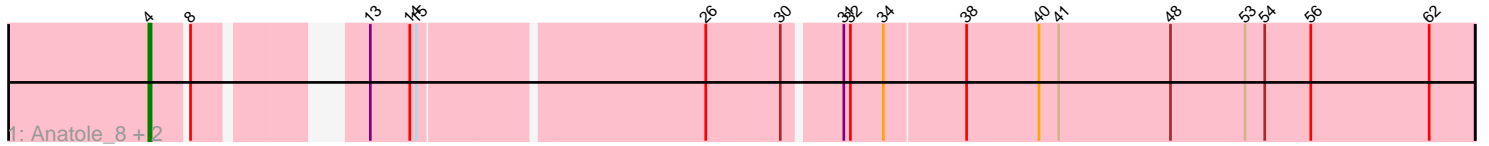


Pham 163984



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 163984 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163984 has 17 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Anatole_8, E1_8, B3_8
- Track 2 : DinoDaryn_14, Huffy_14, TZGordon_14
- Track 3 : TinaLin_15, Banquo_16
- Track 4 : Vendetta_12, Splinter_12
- Track 5 : Goib_13
- Track 6 : Gspu1_10
- Track 7 : Dardanus_14
- Track 8 : Schmidt_10
- Track 9 : Catfish_11
- Track 10 : Khuang_7
- Track 11 : Chymera_9

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

The start number called the most often in the published annotations is 6, it was called in 8 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Banquo_16, Catfish_11, Dardanus_14, DinoDaryn_14, Goib_13, Huffy_14, TZGordon_14, TinaLin_15,

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

- Gspu1_10, Splinter_12, Vendetta_12,

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

- Anatole_8, B3_8, Chymera_9, E1_8, Khuang_7, Schmidt_10,

Summary by start number:

Start 2:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chymera_9 (singleton),

Start 3:

- Found in 1 of 17 (5.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gsput1_10 (CU2),

Start 4:

- Found in 3 of 17 (17.6%) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anatole_8 (BV), B3_8 (BV), E1_8 (BV),

Start 5:

- Found in 2 of 17 (11.8%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Schmidt_10 (CU4),

Start 6:

- Found in 11 of 17 (64.7%) of genes in pham
- Manual Annotations of this start: 8 of 15
- Called 72.7% of time when present
- Phage (with cluster) where this start called: Banquo_16 (CU1), Catfish_11 (CU5), Dardanus_14 (CU3), DinoDaryn_14 (CU1), Goib_13 (CU1), Huffy_14 (CU1), TZGordon_14 (CU1), TinaLin_15 (CU1),

Start 8:

- Found in 4 of 17 (23.5%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Khuang_7 (UNK),

Start 10:

- Found in 8 of 17 (47.1%) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Splinter_12 (CU1), Vendetta_12 (CU1),

Summary by clusters:

There are 8 clusters represented in this pham: CU5, CU4, CU3, CU2, CU1, singleton, BV, UNK,

Info for manual annotations of cluster BV:

- Start number 4 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster CU1:

- Start number 6 was manually annotated 6 times for cluster CU1.
- Start number 10 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CU3:

•Start number 6 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

•Start number 5 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

•Start number 6 was manually annotated 1 time for cluster CU5.

Gene Information:

Gene: Anatole_8 Start: 6423, Stop: 6980, Start Num: 4

Candidate Starts for Anatole_8:

(Start: 4 @6423 has 3 MA's), (8, 6438), (13, 6495), (14, 6513), (15, 6516), (26, 6639), (30, 6672), (31, 6696), (32, 6699), (34, 6714), (38, 6750), (40, 6783), (41, 6792), (48, 6843), (53, 6876), (54, 6885), (56, 6906), (62, 6960),

Gene: B3_8 Start: 6423, Stop: 6980, Start Num: 4

Candidate Starts for B3_8:

(Start: 4 @6423 has 3 MA's), (8, 6438), (13, 6495), (14, 6513), (15, 6516), (26, 6639), (30, 6672), (31, 6696), (32, 6699), (34, 6714), (38, 6750), (40, 6783), (41, 6792), (48, 6843), (53, 6876), (54, 6885), (56, 6906), (62, 6960),

Gene: Banquo_16 Start: 9976, Stop: 10500, Start Num: 6

Candidate Starts for Banquo_16:

(Start: 6 @9976 has 8 MA's), (18, 10117), (21, 10150), (36, 10267), (37, 10291), (41, 10333), (44, 10345), (51, 10411), (55, 10429), (59, 10447), (62, 10486), (63, 10489),

Gene: Catfish_11 Start: 7940, Stop: 8464, Start Num: 6

Candidate Starts for Catfish_11:

(1, 7898), (Start: 5 @7934 has 1 MA's), (Start: 6 @7940 has 8 MA's), (41, 8303), (44, 8315), (47, 8351), (51, 8381),

Gene: Chymera_9 Start: 7652, Stop: 8236, Start Num: 2

Candidate Starts for Chymera_9:

(Start: 2 @7652 has 1 MA's), (12, 7757), (23, 7889), (24, 7898), (28, 7937), (57, 8180),

Gene: Dardanus_14 Start: 9026, Stop: 9541, Start Num: 6

Candidate Starts for Dardanus_14:

(Start: 6 @9026 has 8 MA's), (7, 9032), (9, 9050), (Start: 10 @9071 has 2 MA's), (13, 9101), (16, 9143), (22, 9206), (27, 9239), (29, 9260), (33, 9299), (41, 9389), (43, 9398), (44, 9401), (46, 9422), (51, 9467), (56, 9488), (60, 9503), (62, 9530),

Gene: DinoDaryn_14 Start: 9110, Stop: 9634, Start Num: 6

Candidate Starts for DinoDaryn_14:

(Start: 6 @9110 has 8 MA's), (Start: 10 @9155 has 2 MA's), (17, 9230), (21, 9284), (25, 9314), (29, 9344), (36, 9401), (37, 9425), (42, 9470), (44, 9479), (51, 9545), (55, 9563), (59, 9581), (62, 9620),

Gene: E1_8 Start: 6423, Stop: 6980, Start Num: 4

Candidate Starts for E1_8:

(Start: 4 @6423 has 3 MA's), (8, 6438), (13, 6495), (14, 6513), (15, 6516), (26, 6639), (30, 6672), (31, 6696), (32, 6699), (34, 6714), (38, 6750), (40, 6783), (41, 6792), (48, 6843), (53, 6876), (54, 6885), (56, 6906), (62, 6960),

Gene: Goib_13 Start: 8885, Stop: 9409, Start Num: 6

Candidate Starts for Goib_13:

(Start: 6 @8885 has 8 MA's), (Start: 10 @8930 has 2 MA's), (17, 9005), (21, 9059), (25, 9089), (29, 9119), (36, 9176), (37, 9200), (42, 9245), (43, 9251), (44, 9254), (51, 9320), (55, 9338), (59, 9356), (62, 9395),

Gene: Gspu1_10 Start: 7323, Stop: 7862, Start Num: 3

Candidate Starts for Gspu1_10:

(3, 7323), (Start: 6 @7341 has 8 MA's), (17, 7464), (19, 7488), (29, 7578), (36, 7635), (39, 7671), (45, 7716), (50, 7770), (51, 7779), (57, 7806), (58, 7809), (61, 7830), (62, 7854),

Gene: Huff_14 Start: 9110, Stop: 9634, Start Num: 6

Candidate Starts for Huff_14:

(Start: 6 @9110 has 8 MA's), (Start: 10 @9155 has 2 MA's), (17, 9230), (21, 9284), (25, 9314), (29, 9344), (36, 9401), (37, 9425), (42, 9470), (44, 9479), (51, 9545), (55, 9563), (59, 9581), (62, 9620),

Gene: Khuang_7 Start: 5855, Stop: 6379, Start Num: 8

Candidate Starts for Khuang_7:

(8, 5855), (38, 6161), (41, 6197), (49, 6251), (52, 6275),

Gene: Schmidt_10 Start: 7341, Stop: 7862, Start Num: 5

Candidate Starts for Schmidt_10:

(1, 7305), (Start: 5 @7341 has 1 MA's), (Start: 10 @7392 has 2 MA's), (11, 7416), (13, 7422), (17, 7467), (20, 7494), (23, 7542), (25, 7551), (27, 7560), (35, 7632), (37, 7662), (41, 7704), (45, 7719), (51, 7782), (62, 7854),

Gene: Splinter_12 Start: 8930, Stop: 9409, Start Num: 10

Candidate Starts for Splinter_12:

(Start: 6 @8885 has 8 MA's), (Start: 10 @8930 has 2 MA's), (17, 9005), (21, 9059), (25, 9089), (29, 9119), (36, 9176), (37, 9200), (42, 9245), (43, 9251), (44, 9254), (51, 9320), (55, 9338), (59, 9356), (62, 9395),

Gene: TZGordon_14 Start: 9027, Stop: 9551, Start Num: 6

Candidate Starts for TZGordon_14:

(Start: 6 @9027 has 8 MA's), (Start: 10 @9072 has 2 MA's), (17, 9147), (21, 9201), (25, 9231), (29, 9261), (36, 9318), (37, 9342), (42, 9387), (44, 9396), (51, 9462), (55, 9480), (59, 9498), (62, 9537),

Gene: TinaLin_15 Start: 9599, Stop: 10123, Start Num: 6

Candidate Starts for TinaLin_15:

(Start: 6 @9599 has 8 MA's), (18, 9740), (21, 9773), (36, 9890), (37, 9914), (41, 9956), (44, 9968), (51, 10034), (55, 10052), (59, 10070), (62, 10109), (63, 10112),

Gene: Vendetta_12 Start: 8930, Stop: 9409, Start Num: 10

Candidate Starts for Vendetta_12:

(Start: 6 @8885 has 8 MA's), (Start: 10 @8930 has 2 MA's), (17, 9005), (21, 9059), (25, 9089), (29, 9119), (36, 9176), (37, 9200), (42, 9245), (43, 9251), (44, 9254), (51, 9320), (55, 9338), (59, 9356), (62, 9395),