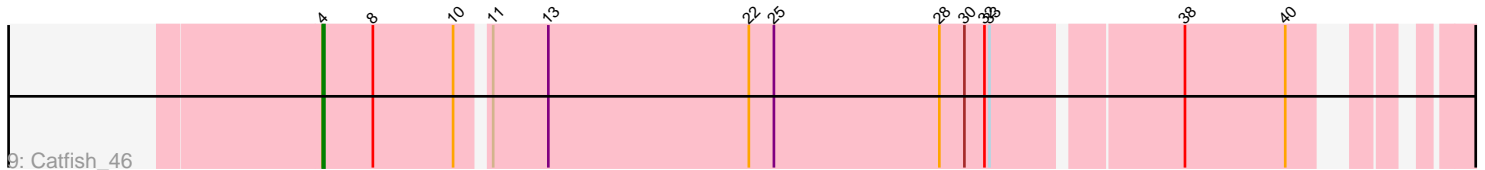
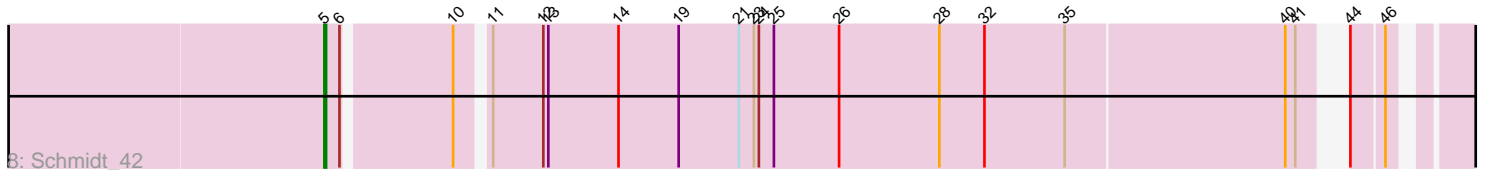
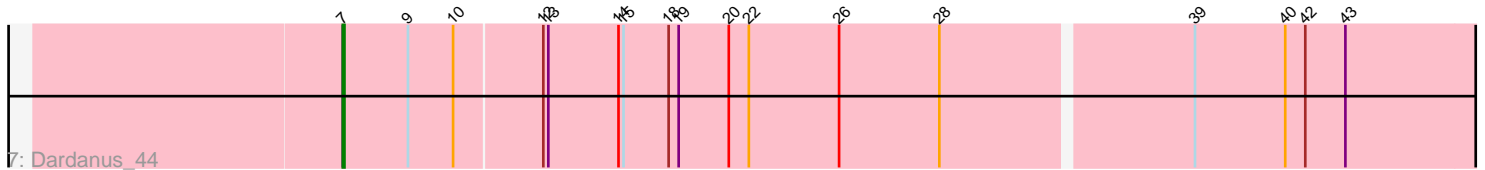
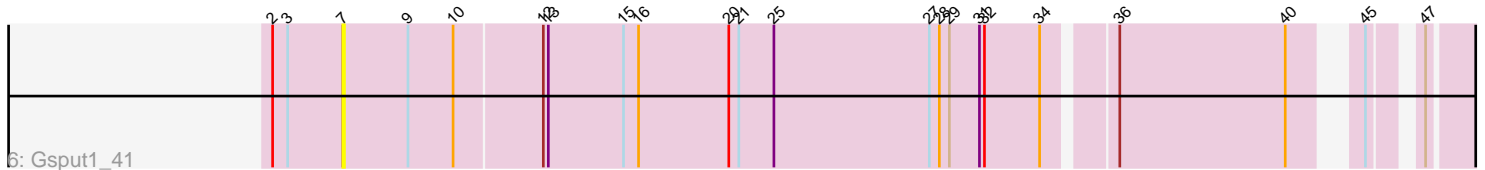
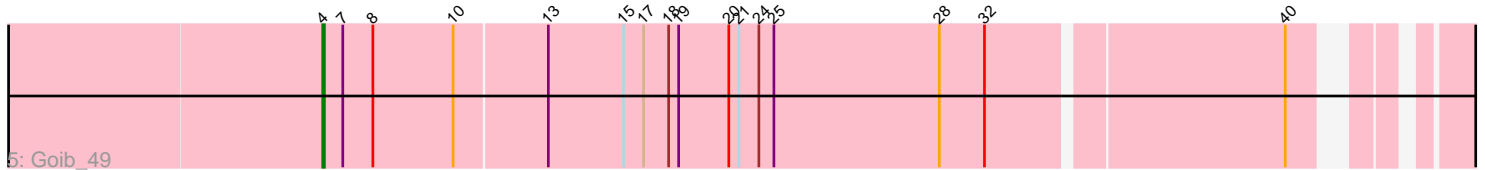
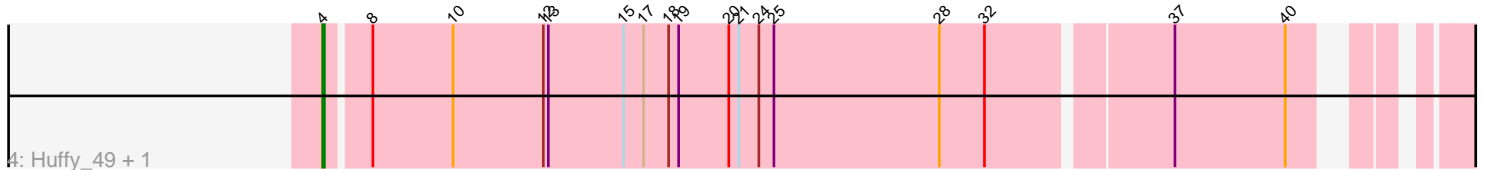
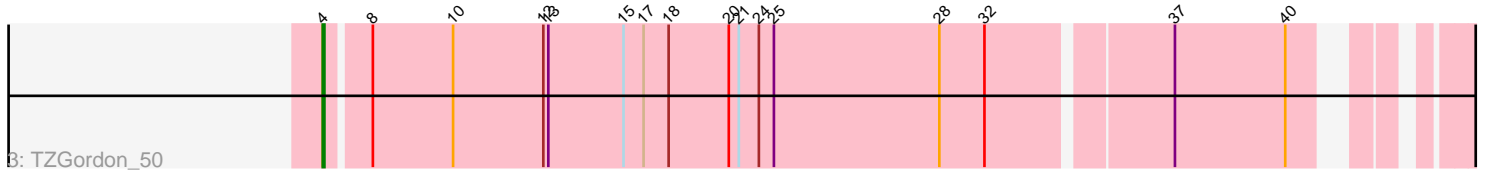
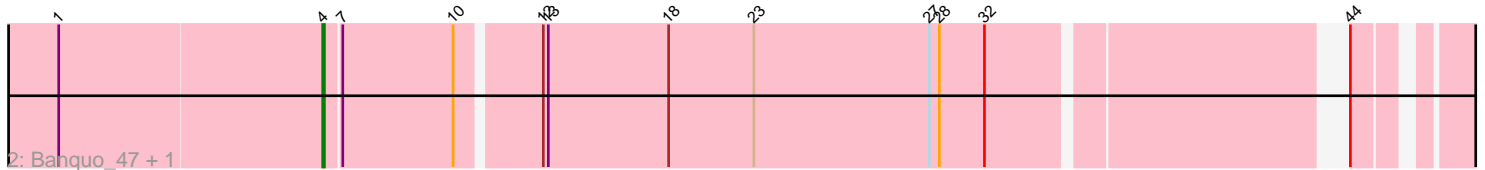
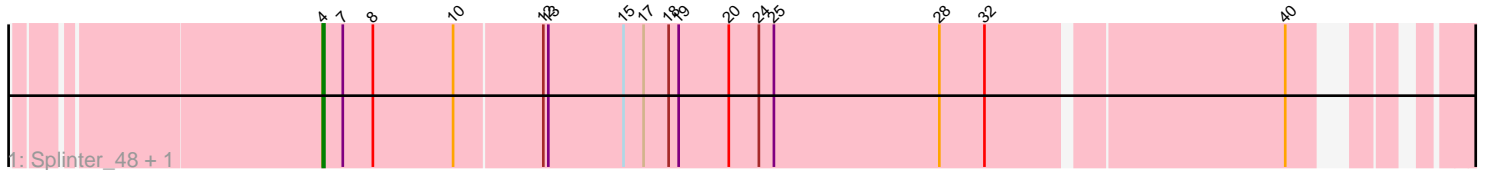


Pham 158302



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 158302 Report

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

Pham number 158302 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Splinter\_48, Vendetta\_48
- Track 2 : Banquo\_47, TinaLin\_46
- Track 3 : TZGordon\_50
- Track 4 : Huff\_49, DinoDaryn\_49
- Track 5 : Goib\_49
- Track 6 : Gsp1\_41
- Track 7 : Dardanus\_44
- Track 8 : Schmidt\_42
- Track 9 : Catfish\_46

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

The start number called the most often in the published annotations is 4, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Banquo\_47, Catfish\_46, DinoDaryn\_49, Goib\_49, Huff\_49, Splinter\_48, TZGordon\_50, TinaLin\_46, Vendetta\_48,

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

- 

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

- Dardanus\_44, Gsp1\_41, Schmidt\_42,

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

Start 4:

- Found in 9 of 12 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo\_47 (CU1), Catfish\_46 (CU5), DinoDaryn\_49 (CU1), Goib\_49 (CU1), Huff\_49 (CU1), Splinter\_48 (CU1), TZGordon\_50 (CU1), TinaLin\_46 (CU1), Vendetta\_48 (CU1),

Start 5:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schmidt\_42 (CU4),

Start 7:

- Found in 7 of 12 ( 58.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Dardanus\_44 (CU3), Gspu1\_41 (CU2),

**Summary by clusters:**

There are 5 clusters represented in this pham: CU5, CU4, CU3, CU2, CU1,

Info for manual annotations of cluster CU1:

- Start number 4 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 7 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 4 was manually annotated 1 time for cluster CU5.

**Gene Information:**

Gene: Banquo\_47 Start: 31147, Stop: 31794, Start Num: 4

Candidate Starts for Banquo\_47:

(1, 30991), (Start: 4 @31147 has 9 MA's), (Start: 7 @31156 has 1 MA's), (10, 31222), (12, 31267), (13, 31270), (18, 31342), (23, 31393), (27, 31498), (28, 31504), (32, 31531), (44, 31717),

Gene: Catfish\_46 Start: 32718, Stop: 33347, Start Num: 4

Candidate Starts for Catfish\_46:

(Start: 4 @32718 has 9 MA's), (8, 32748), (10, 32796), (11, 32811), (13, 32844), (22, 32964), (25, 32979), (28, 33078), (30, 33093), (32, 33105), (33, 33108), (38, 33213), (40, 33273),

Gene: Dardanus\_44 Start: 30078, Stop: 30791, Start Num: 7

Candidate Starts for Dardanus\_44:

(Start: 7 @30078 has 1 MA's), (9, 30117), (10, 30144), (12, 30195), (13, 30198), (14, 30240), (15, 30243), (18, 30270), (19, 30276), (20, 30306), (22, 30318), (26, 30372), (28, 30432), (39, 30576), (40, 30630), (42, 30642), (43, 30666),

Gene: DinoDaryn\_49 Start: 31634, Stop: 32308, Start Num: 4

Candidate Starts for DinoDaryn\_49:

(Start: 4 @31634 has 9 MA's), (8, 31658), (10, 31706), (12, 31760), (13, 31763), (15, 31808), (17, 31820), (18, 31835), (19, 31841), (20, 31871), (21, 31877), (24, 31889), (25, 31898), (28, 31997), (32, 32024), (37, 32126), (40, 32192),

Gene: Goib\_49 Start: 32018, Stop: 32695, Start Num: 4

Candidate Starts for Goib\_49:

(Start: 4 @32018 has 9 MA's), (Start: 7 @32030 has 1 MA's), (8, 32048), (10, 32096), (13, 32150), (15, 32195), (17, 32207), (18, 32222), (19, 32228), (20, 32258), (21, 32264), (24, 32276), (25, 32285), (28, 32384), (32, 32411), (40, 32579),

Gene: Gspu1\_41 Start: 30846, Stop: 31469, Start Num: 7

Candidate Starts for Gspu1\_41:

(2, 30804), (3, 30813), (Start: 7 @30846 has 1 MA's), (9, 30885), (10, 30912), (12, 30963), (13, 30966), (15, 31011), (16, 31020), (20, 31074), (21, 31080), (25, 31101), (27, 31194), (28, 31200), (29, 31206), (31, 31224), (32, 31227), (34, 31260), (36, 31296), (40, 31395), (45, 31422), (47, 31443),

Gene: Huff\_49 Start: 31634, Stop: 32308, Start Num: 4

Candidate Starts for Huff\_49:

(Start: 4 @31634 has 9 MA's), (8, 31658), (10, 31706), (12, 31760), (13, 31763), (15, 31808), (17, 31820), (18, 31835), (19, 31841), (20, 31871), (21, 31877), (24, 31889), (25, 31898), (28, 31997), (32, 32024), (37, 32126), (40, 32192),

Gene: Schmidt\_42 Start: 29023, Stop: 29649, Start Num: 5

Candidate Starts for Schmidt\_42:

(Start: 5 @29023 has 1 MA's), (6, 29032), (10, 29092), (11, 29107), (12, 29137), (13, 29140), (14, 29182), (19, 29218), (21, 29254), (23, 29263), (24, 29266), (25, 29275), (26, 29314), (28, 29374), (32, 29401), (35, 29449), (40, 29578), (41, 29584), (44, 29596), (46, 29614),

Gene: Splinter\_48 Start: 32041, Stop: 32718, Start Num: 4

Candidate Starts for Splinter\_48:

(Start: 4 @32041 has 9 MA's), (Start: 7 @32053 has 1 MA's), (8, 32071), (10, 32119), (12, 32170), (13, 32173), (15, 32218), (17, 32230), (18, 32245), (19, 32251), (20, 32281), (24, 32299), (25, 32308), (28, 32407), (32, 32434), (40, 32602),

Gene: TZGordon\_50 Start: 31549, Stop: 32214, Start Num: 4

Candidate Starts for TZGordon\_50:

(Start: 4 @31549 has 9 MA's), (8, 31573), (10, 31621), (12, 31675), (13, 31678), (15, 31723), (17, 31735), (18, 31750), (20, 31786), (21, 31792), (24, 31804), (25, 31813), (28, 31912), (32, 31939), (37, 32041), (40, 32107),

Gene: TinaLin\_46 Start: 30820, Stop: 31467, Start Num: 4

Candidate Starts for TinaLin\_46:

(1, 30664), (Start: 4 @30820 has 9 MA's), (Start: 7 @30829 has 1 MA's), (10, 30895), (12, 30940), (13, 30943), (18, 31015), (23, 31066), (27, 31171), (28, 31177), (32, 31204), (44, 31390),

Gene: Vendetta\_48 Start: 32041, Stop: 32718, Start Num: 4

Candidate Starts for Vendetta\_48:

(Start: 4 @32041 has 9 MA's), (Start: 7 @32053 has 1 MA's), (8, 32071), (10, 32119), (12, 32170), (13, 32173), (15, 32218), (17, 32230), (18, 32245), (19, 32251), (20, 32281), (24, 32299), (25, 32308), (28, 32407), (32, 32434), (40, 32602),