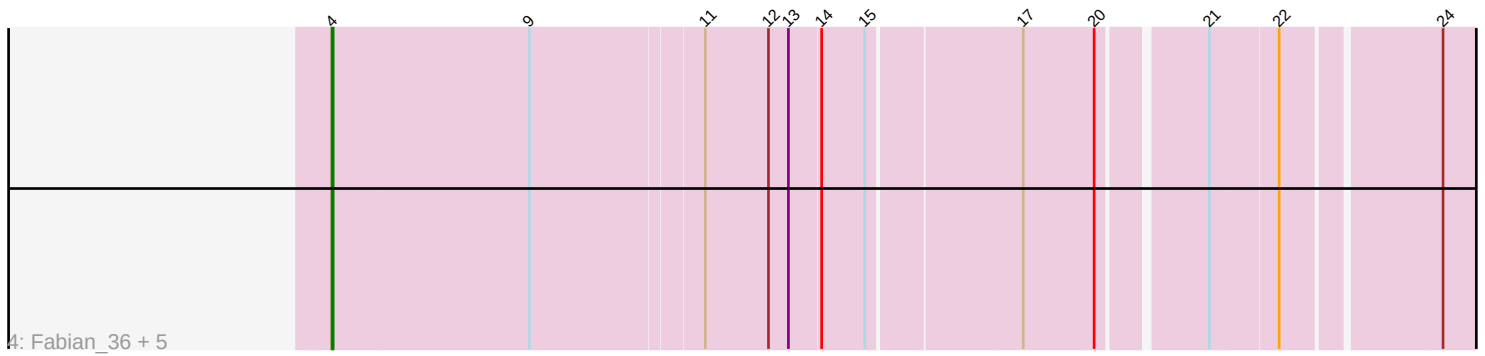
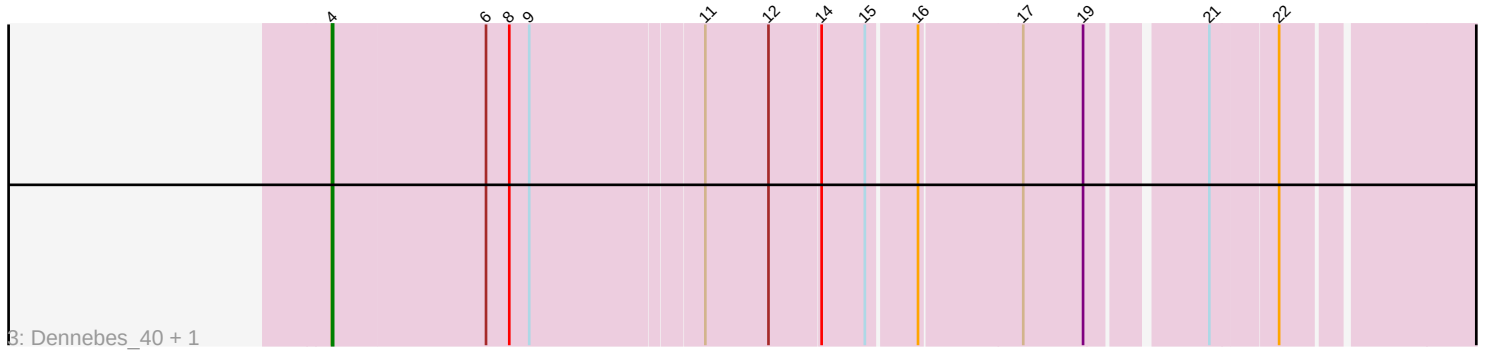
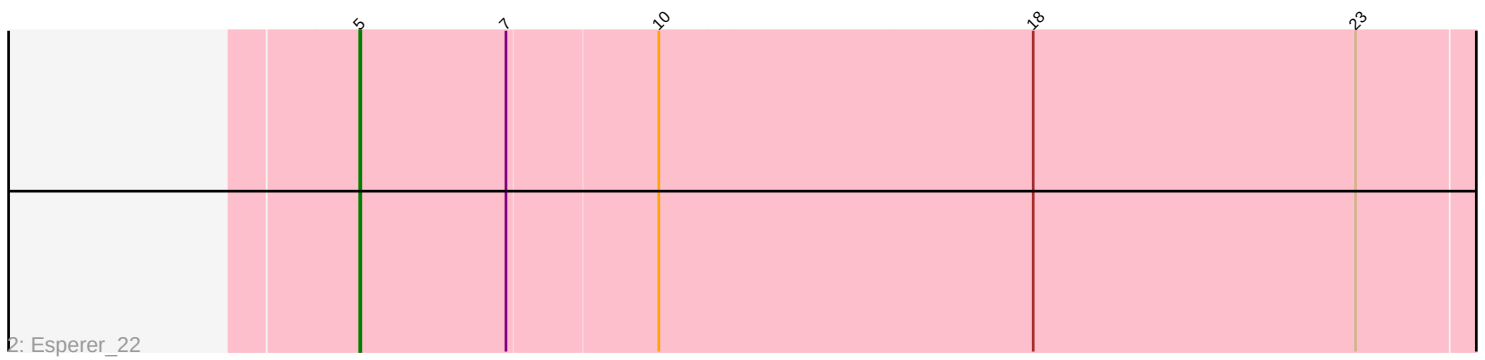
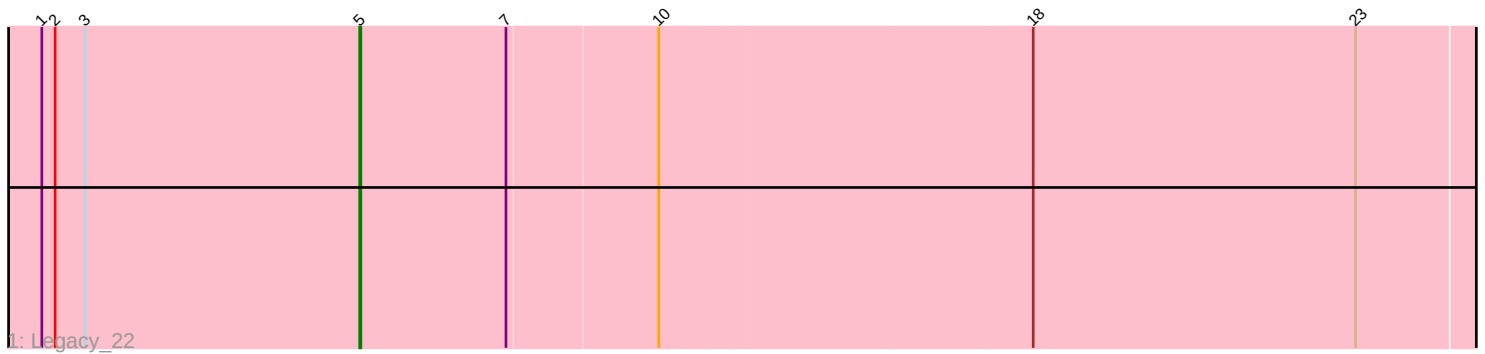


Pham 331473



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 331473 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331473 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Legacy_22
- Track 2 : Esperer_22
- Track 3 : Dennebes_40, Rideau_41
- Track 4 : Fabian_36, Vrykolakas_40, Geostin_34, RetrieverFever_39, Gremlin23_39, FlowerPower_39

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 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dennebes_40, Fabian_36, FlowerPower_39, Geostin_34, Gremlin23_39, RetrieverFever_39, Rideau_41, Vrykolakas_40,

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

-

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

- Esperer_22, Legacy_22,

Summary by start number:

Start 4:

- Found in 8 of 10 (80.0%) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dennebes_40 (BF), Fabian_36 (BF), FlowerPower_39 (BF), Geostin_34 (BF), Gremlin23_39 (BF), RetrieverFever_39 (BF), Rideau_41 (BF), Vrykolakas_40 (BF),

Start 5:

- Found in 2 of 10 (20.0%) of genes in pham
- Manual Annotations of this start: 2 of 8

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Esperer_22 (BD1), Legacy_22 (BD1),

Summary by clusters:

There are 2 clusters represented in this pham: BF, BD1,

Info for manual annotations of cluster BD1:

- Start number 5 was manually annotated 2 times for cluster BD1.

Info for manual annotations of cluster BF:

- Start number 4 was manually annotated 6 times for cluster BF.

Gene Information:

Gene: Dennebes_40 Start: 20560, Stop: 21591, Start Num: 4

Candidate Starts for Dennebes_40:

(Start: 4 @20560 has 6 MA's), (6, 20695), (8, 20716), (9, 20734), (11, 20884), (12, 20941), (14, 20986), (15, 21025), (16, 21067), (17, 21157), (19, 21211), (21, 21307), (22, 21364),

Gene: Esperer_22 Start: 17484, Stop: 18539, Start Num: 5

Candidate Starts for Esperer_22:

(Start: 5 @17484 has 2 MA's), (7, 17616), (10, 17748), (18, 18078), (23, 18369),

Gene: Fabian_36 Start: 20410, Stop: 21441, Start Num: 4

Candidate Starts for Fabian_36:

(Start: 4 @20410 has 6 MA's), (9, 20584), (11, 20734), (12, 20791), (13, 20809), (14, 20836), (15, 20875), (17, 21007), (20, 21070), (21, 21157), (22, 21214), (24, 21346),

Gene: FlowerPower_39 Start: 20410, Stop: 21441, Start Num: 4

Candidate Starts for FlowerPower_39:

(Start: 4 @20410 has 6 MA's), (9, 20584), (11, 20734), (12, 20791), (13, 20809), (14, 20836), (15, 20875), (17, 21007), (20, 21070), (21, 21157), (22, 21214), (24, 21346),

Gene: Geostin_34 Start: 20410, Stop: 21441, Start Num: 4

Candidate Starts for Geostin_34:

(Start: 4 @20410 has 6 MA's), (9, 20584), (11, 20734), (12, 20791), (13, 20809), (14, 20836), (15, 20875), (17, 21007), (20, 21070), (21, 21157), (22, 21214), (24, 21346),

Gene: Gremlin23_39 Start: 20410, Stop: 21441, Start Num: 4

Candidate Starts for Gremlin23_39:

(Start: 4 @20410 has 6 MA's), (9, 20584), (11, 20734), (12, 20791), (13, 20809), (14, 20836), (15, 20875), (17, 21007), (20, 21070), (21, 21157), (22, 21214), (24, 21346),

Gene: Legacy_22 Start: 17636, Stop: 18691, Start Num: 5

Candidate Starts for Legacy_22:

(1, 17351), (2, 17363), (3, 17390), (Start: 5 @17636 has 2 MA's), (7, 17768), (10, 17900), (18, 18230), (23, 18521),

Gene: RetrieverFever_39 Start: 20410, Stop: 21441, Start Num: 4

Candidate Starts for RetrieverFever_39:

(Start: 4 @20410 has 6 MA's), (9, 20584), (11, 20734), (12, 20791), (13, 20809), (14, 20836), (15, 20875), (17, 21007), (20, 21070), (21, 21157), (22, 21214), (24, 21346),

Gene: Rideau_41 Start: 20560, Stop: 21591, Start Num: 4

Candidate Starts for Rideau_41:

(Start: 4 @20560 has 6 MA's), (6, 20695), (8, 20716), (9, 20734), (11, 20884), (12, 20941), (14, 20986), (15, 21025), (16, 21067), (17, 21157), (19, 21211), (21, 21307), (22, 21364),

Gene: Vrykolakas_40 Start: 20409, Stop: 21440, Start Num: 4

Candidate Starts for Vrykolakas_40:

(Start: 4 @20409 has 6 MA's), (9, 20583), (11, 20733), (12, 20790), (13, 20808), (14, 20835), (15, 20874), (17, 21006), (20, 21069), (21, 21156), (22, 21213), (24, 21345),