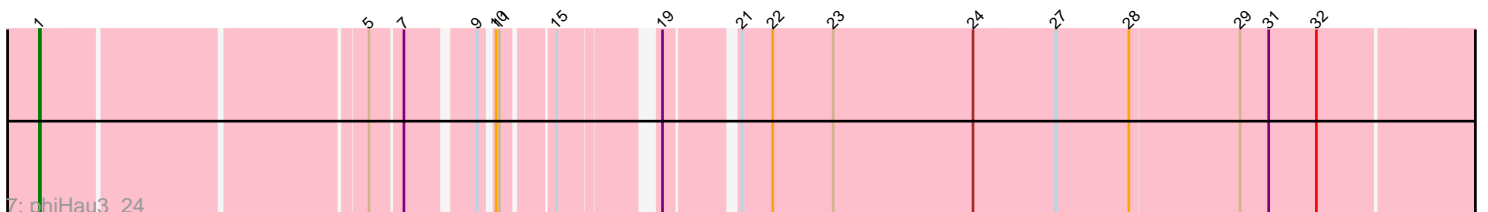
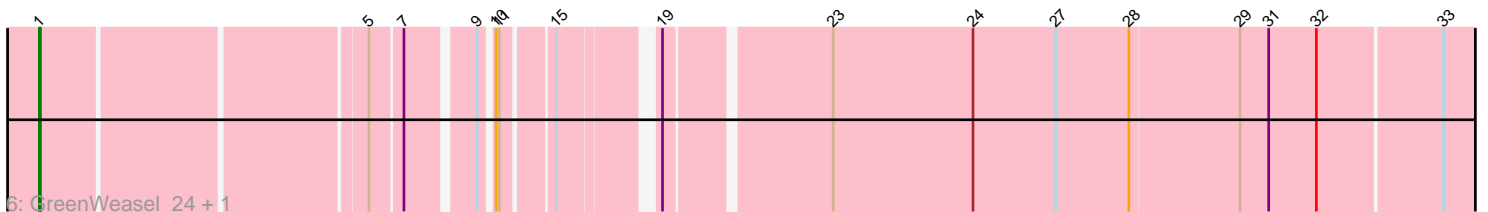
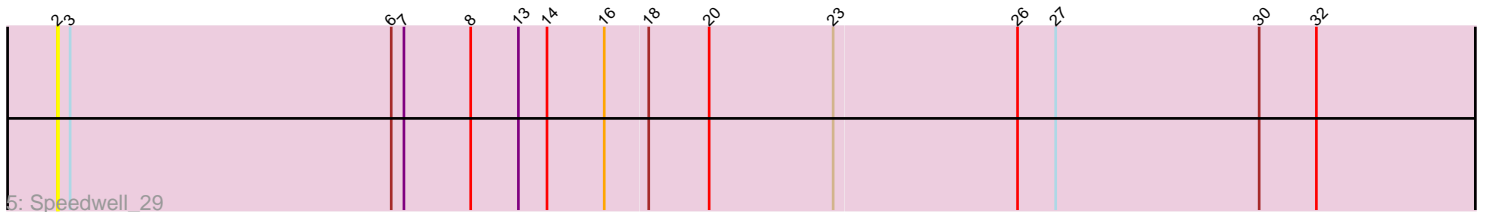
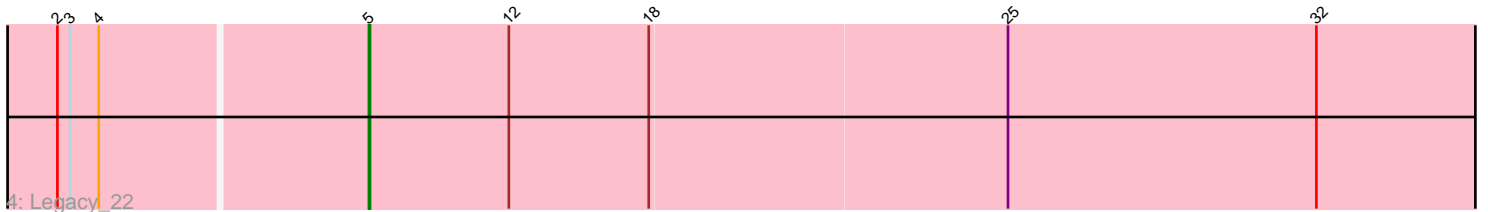
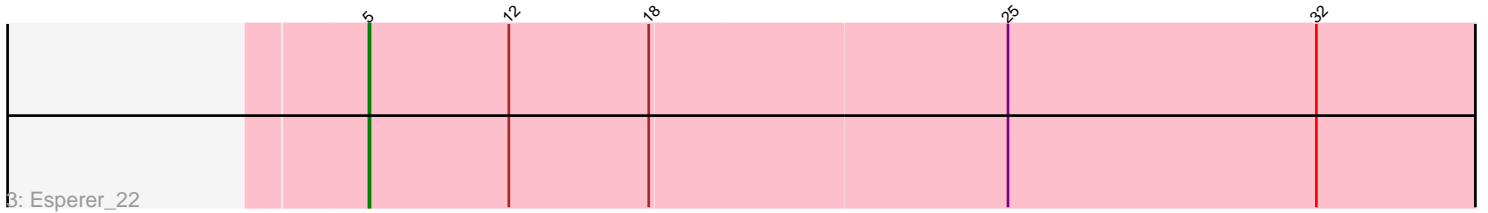
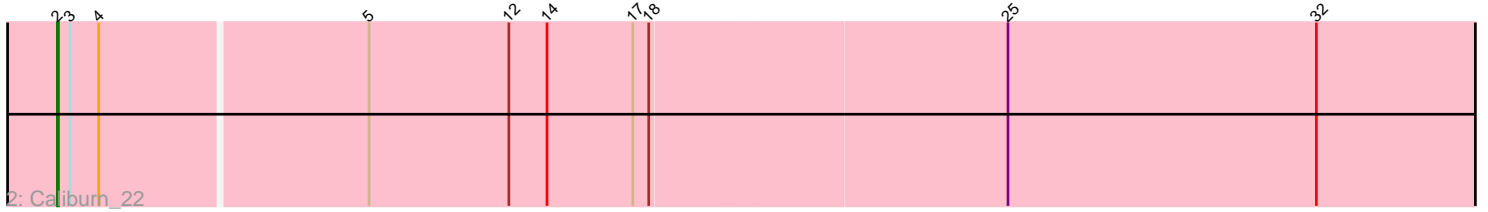
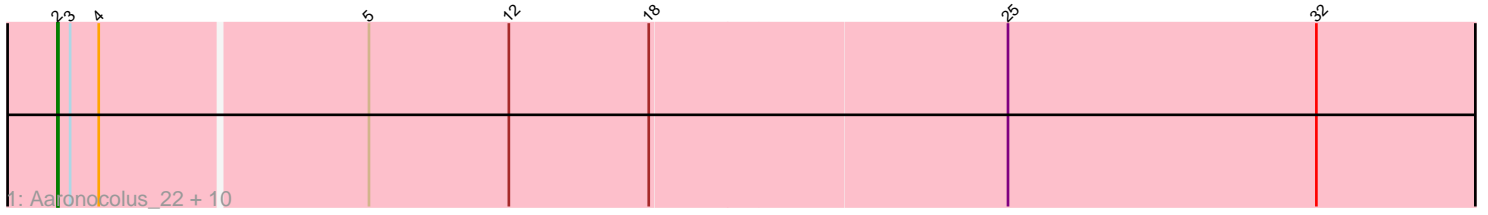


# Pham 190153



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 190153 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190153 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Aaronocolus\_22, Indigo\_22, Nerdos\_22, Hydra\_24, Unstoppable\_22, SunsetPointe\_22, Bovely\_22, Phettuccine\_22, BeardedLady\_23, Ozzie\_22, Leviticus\_22
- Track 2 : Caliburn\_22
- Track 3 : Esperer\_22
- Track 4 : Legacy\_22
- Track 5 : Speedwell\_29
- Track 6 : GreenWeasel\_24, BroPlease\_23
- Track 7 : phiHau3\_24

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aaronocolus\_22, BeardedLady\_23, Bovely\_22, Caliburn\_22, Hydra\_24, Indigo\_22, Leviticus\_22, Nerdos\_22, Ozzie\_22, Phettuccine\_22, Speedwell\_29, SunsetPointe\_22, Unstoppable\_22,

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

- Legacy\_22,

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

- BroPlease\_23, Esperer\_22, GreenWeasel\_24, phiHau3\_24,

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

Start 1:

- Found in 3 of 18 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 3 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BroPlease\_23 (BD4), GreenWeasel\_24 (BD4), phiHau3\_24 (BD4),

Start 2:

- Found in 14 of 18 ( 77.8% ) of genes in pham
- Manual Annotations of this start: 12 of 17
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Aaronocolus\_22 (BD1), BeardedLady\_23 (BD1), Bovely\_22 (BD1), Caliburn\_22 (BD1), Hydra\_24 (BD1), Indigo\_22 (BD1), Leviticus\_22 (BD1), Nerdos\_22 (BD1), Ozzie\_22 (BD1), Phettuccine\_22 (BD1), Speedwell\_29 (BD3), SunsetPointe\_22 (BD1), Unstoppable\_22 (BD1),

Start 5:

- Found in 17 of 18 ( 94.4% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 11.8% of time when present
- Phage (with cluster) where this start called: Esperer\_22 (BD1), Legacy\_22 (BD1),

**Summary by clusters:**

There are 3 clusters represented in this pham: BD4, BD1, BD3,

Info for manual annotations of cluster BD1:

- Start number 2 was manually annotated 12 times for cluster BD1.
- Start number 5 was manually annotated 2 times for cluster BD1.

Info for manual annotations of cluster BD4:

- Start number 1 was manually annotated 3 times for cluster BD4.

**Gene Information:**

Gene: Aaronocolus\_22 Start: 17380, Stop: 18720, Start Num: 2

Candidate Starts for Aaronocolus\_22:

(Start: 2 @17380 has 12 MA's), (3, 17392), (4, 17419), (Start: 5 @17665 has 2 MA's), (12, 17797), (18, 17929), (25, 18259), (32, 18550),

Gene: BeardedLady\_23 Start: 17627, Stop: 18967, Start Num: 2

Candidate Starts for BeardedLady\_23:

(Start: 2 @17627 has 12 MA's), (3, 17639), (4, 17666), (Start: 5 @17912 has 2 MA's), (12, 18044), (18, 18176), (25, 18506), (32, 18797),

Gene: Bovely\_22 Start: 17386, Stop: 18726, Start Num: 2

Candidate Starts for Bovely\_22:

(Start: 2 @17386 has 12 MA's), (3, 17398), (4, 17425), (Start: 5 @17671 has 2 MA's), (12, 17803), (18, 17935), (25, 18265), (32, 18556),

Gene: BroPlease\_23 Start: 18052, Stop: 19299, Start Num: 1

Candidate Starts for BroPlease\_23:

(Start: 1 @18052 has 3 MA's), (Start: 5 @18337 has 2 MA's), (7, 18361), (9, 18418), (10, 18427), (11, 18430), (15, 18472), (19, 18547), (23, 18688), (24, 18820), (27, 18895), (28, 18964), (29, 19066), (31, 19093), (32, 19138), (33, 19249),

Gene: Caliburn\_22 Start: 17360, Stop: 18700, Start Num: 2

Candidate Starts for Caliburn\_22:

(Start: 2 @17360 has 12 MA's), (3, 17372), (4, 17399), (Start: 5 @17645 has 2 MA's), (12, 17777), (14, 17813), (17, 17894), (18, 17909), (25, 18239), (32, 18530),

Gene: Esperer\_22 Start: 17484, Stop: 18539, Start Num: 5

Candidate Starts for Esperer\_22:

(Start: 5 @17484 has 2 MA's), (12, 17616), (18, 17748), (25, 18078), (32, 18369),

Gene: GreenWeasel\_24 Start: 18061, Stop: 19308, Start Num: 1

Candidate Starts for GreenWeasel\_24:

(Start: 1 @18061 has 3 MA's), (Start: 5 @18346 has 2 MA's), (7, 18370), (9, 18427), (10, 18436), (11, 18439), (15, 18481), (19, 18556), (23, 18697), (24, 18829), (27, 18904), (28, 18973), (29, 19075), (31, 19102), (32, 19147), (33, 19258),

Gene: Hydra\_24 Start: 17908, Stop: 19248, Start Num: 2

Candidate Starts for Hydra\_24:

(Start: 2 @17908 has 12 MA's), (3, 17920), (4, 17947), (Start: 5 @18193 has 2 MA's), (12, 18325), (18, 18457), (25, 18787), (32, 19078),

Gene: Indigo\_22 Start: 17380, Stop: 18720, Start Num: 2

Candidate Starts for Indigo\_22:

(Start: 2 @17380 has 12 MA's), (3, 17392), (4, 17419), (Start: 5 @17665 has 2 MA's), (12, 17797), (18, 17929), (25, 18259), (32, 18550),

Gene: Legacy\_22 Start: 17636, Stop: 18691, Start Num: 5

Candidate Starts for Legacy\_22:

(Start: 2 @17351 has 12 MA's), (3, 17363), (4, 17390), (Start: 5 @17636 has 2 MA's), (12, 17768), (18, 17900), (25, 18230), (32, 18521),

Gene: Leviticus\_22 Start: 17380, Stop: 18720, Start Num: 2

Candidate Starts for Leviticus\_22:

(Start: 2 @17380 has 12 MA's), (3, 17392), (4, 17419), (Start: 5 @17665 has 2 MA's), (12, 17797), (18, 17929), (25, 18259), (32, 18550),

Gene: Nerdos\_22 Start: 17380, Stop: 18720, Start Num: 2

Candidate Starts for Nerdos\_22:

(Start: 2 @17380 has 12 MA's), (3, 17392), (4, 17419), (Start: 5 @17665 has 2 MA's), (12, 17797), (18, 17929), (25, 18259), (32, 18550),

Gene: Ozzie\_22 Start: 17360, Stop: 18700, Start Num: 2

Candidate Starts for Ozzie\_22:

(Start: 2 @17360 has 12 MA's), (3, 17372), (4, 17399), (Start: 5 @17645 has 2 MA's), (12, 17777), (18, 17909), (25, 18239), (32, 18530),

Gene: Phettuccine\_22 Start: 17380, Stop: 18720, Start Num: 2

Candidate Starts for Phettuccine\_22:

(Start: 2 @17380 has 12 MA's), (3, 17392), (4, 17419), (Start: 5 @17665 has 2 MA's), (12, 17797), (18, 17929), (25, 18259), (32, 18550),

Gene: Speedwell\_29 Start: 20083, Stop: 21435, Start Num: 2

Candidate Starts for Speedwell\_29:

(Start: 2 @20083 has 12 MA's), (3, 20095), (6, 20398), (7, 20410), (8, 20473), (13, 20518), (14, 20545), (16, 20599), (18, 20638), (20, 20695), (23, 20812), (26, 20983), (27, 21019), (30, 21211), (32, 21265),

Gene: SunsetPointe\_22 Start: 17370, Stop: 18710, Start Num: 2

Candidate Starts for SunsetPointe\_22:

(Start: 2 @17370 has 12 MA's), (3, 17382), (4, 17409), (Start: 5 @17655 has 2 MA's), (12, 17787), (18, 17919), (25, 18249), (32, 18540),

Gene: Unstoppable\_22 Start: 17371, Stop: 18711, Start Num: 2

Candidate Starts for Unstoppable\_22:

(Start: 2 @17371 has 12 MA's), (3, 17383), (4, 17410), (Start: 5 @17656 has 2 MA's), (12, 17788), (18, 17920), (25, 18250), (32, 18541),

Gene: phiHau3\_24 Start: 18029, Stop: 19276, Start Num: 1

Candidate Starts for phiHau3\_24:

(Start: 1 @18029 has 3 MA's), (Start: 5 @18314 has 2 MA's), (7, 18338), (9, 18395), (10, 18404), (11, 18407), (15, 18449), (19, 18524), (21, 18581), (22, 18608), (23, 18665), (24, 18797), (27, 18872), (28, 18941), (29, 19043), (31, 19070), (32, 19115),