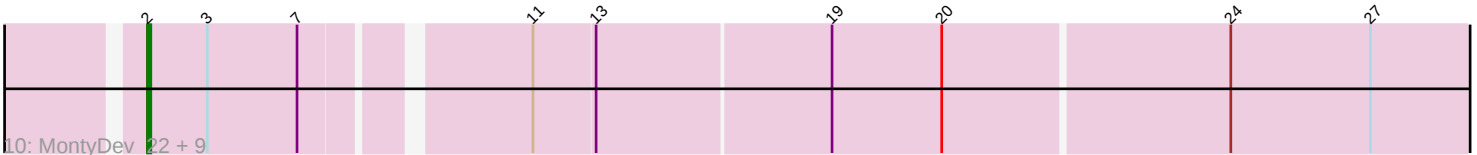
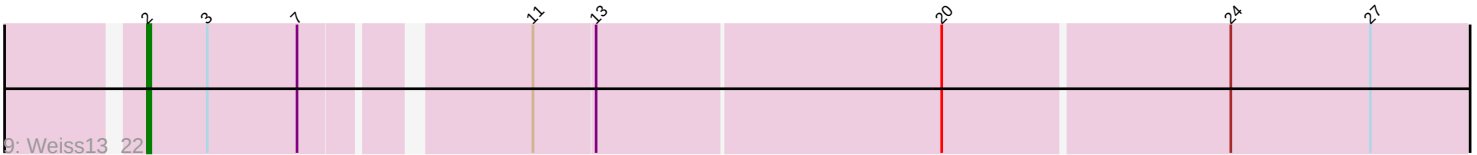
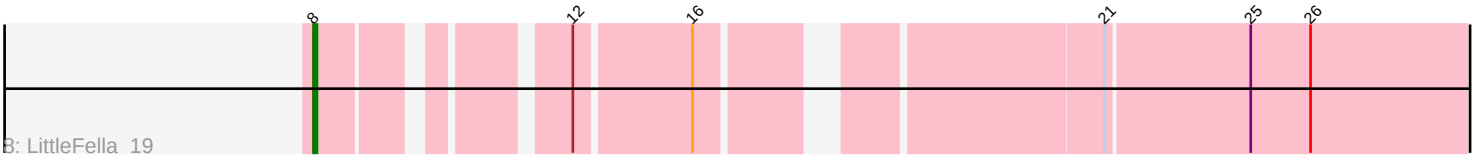
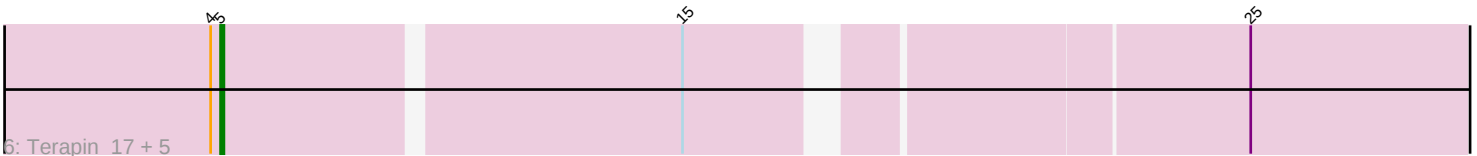
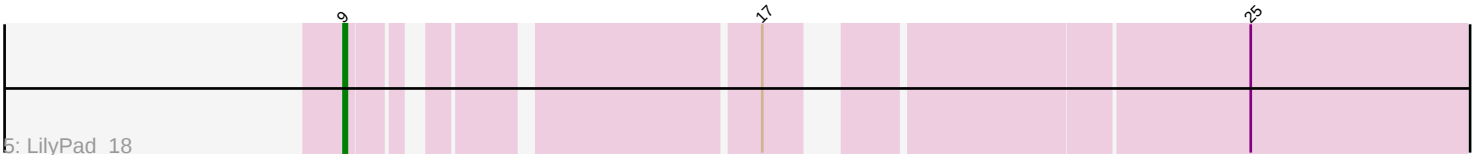
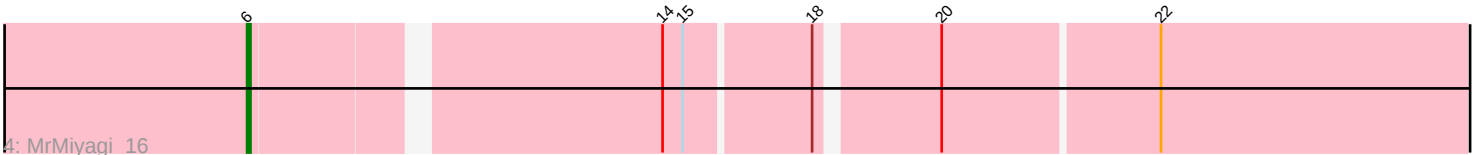
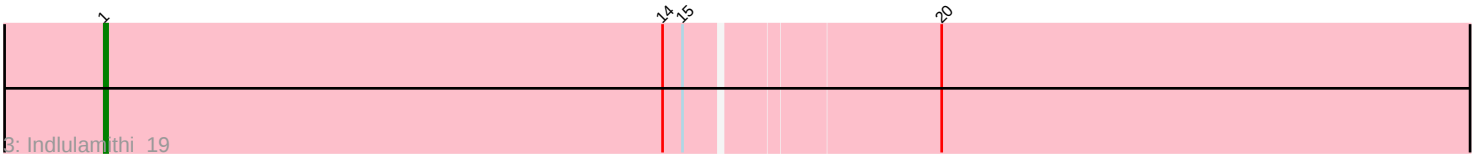
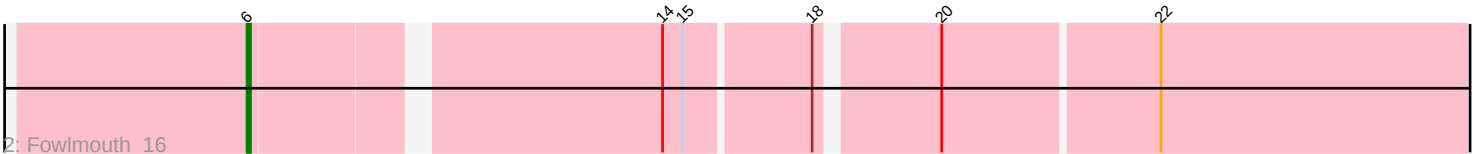
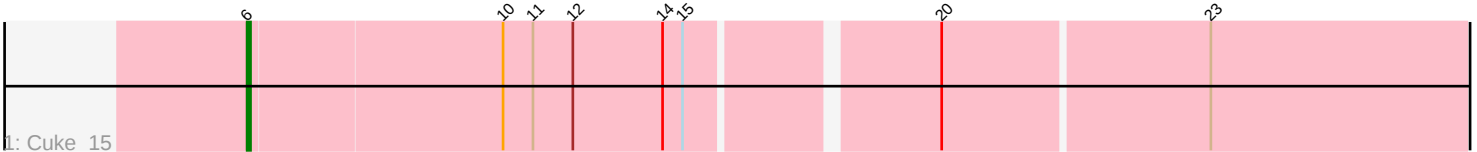


Pham 331196



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 331196 Report

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

Pham number 331196 has 24 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cuke_15
- Track 2 : Fowlmouth_16
- Track 3 : Indlulamithi_19
- Track 4 : MrMiyagi_16
- Track 5 : LilyPad_18
- Track 6 : Terapin_17, Sienna_17, Djokovic_17, Madi_17, BiteSize_17, Beyoncage_17
- Track 7 : Suzy_18
- Track 8 : LittleFella_19
- Track 9 : Weiss13_22
- Track 10 : MontyDev_22, Gimesa_23, Candle_22, Riparian_22, Nilo_23, Zenon_23, Yelo_22, Papyrus_22, Send513_22, Rope_22

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 10 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Candle_22, Gimesa_23, MontyDev_22, Nilo_23, Papyrus_22, Riparian_22, Rope_22, Send513_22, Weiss13_22, Yelo_22, Zenon_23,

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

-

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

- Beyoncage_17, BiteSize_17, Cuke_15, Djokovic_17, Fowlmouth_16, Indlulamithi_19, LilyPad_18, LittleFella_19, Madi_17, MrMiyagi_16, Sienna_17, Suzy_18, Terapin_17,

Summary by start number:

Start 1:

- Found in 1 of 24 (4.2%) of genes in pham

- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_19 (AC),

Start 2:

- Found in 11 of 24 (45.8%) of genes in pham
- Manual Annotations of this start: 10 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle_22 (R), Gimesa_23 (R), MontyDev_22 (R), Nilo_23 (R), Papyrus_22 (R), Riparian_22 (R), Rope_22 (R), Send513_22 (R), Weiss13_22 (R), Yelo_22 (R), Zenon_23 (R),

Start 5:

- Found in 7 of 24 (29.2%) of genes in pham
- Manual Annotations of this start: 7 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beyoncage_17 (DG1), BiteSize_17 (DG1), Djokovic_17 (DG1), Madi_17 (DG1), Sienna_17 (DG1), Suzy_18 (DG1), Terapin_17 (DG1),

Start 6:

- Found in 3 of 24 (12.5%) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cuke_15 (AC), Fowlmouth_16 (AC), MrMiyagi_16 (AC),

Start 8:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleFella_19 (DG2),

Start 9:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilyPad_18 (DG1),

Summary by clusters:

There are 4 clusters represented in this pham: DG2, DG1, AC, R,

Info for manual annotations of cluster AC:

- Start number 1 was manually annotated 1 time for cluster AC.
- Start number 6 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster DG1:

- Start number 5 was manually annotated 7 times for cluster DG1.
- Start number 9 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 8 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster R:

•Start number 2 was manually annotated 10 times for cluster R.

Gene Information:

Gene: Beyoncage_17 Start: 10309, Stop: 10662, Start Num: 5

Candidate Starts for Beyoncage_17:

(4, 10306), (Start: 5 @10309 has 7 MA's), (15, 10441), (25, 10594),

Gene: BiteSize_17 Start: 10309, Stop: 10662, Start Num: 5

Candidate Starts for BiteSize_17:

(4, 10306), (Start: 5 @10309 has 7 MA's), (15, 10441), (25, 10594),

Gene: Candle_22 Start: 14349, Stop: 14750, Start Num: 2

Candidate Starts for Candle_22:

(Start: 2 @14349 has 10 MA's), (3, 14367), (7, 14394), (11, 14454), (13, 14472), (19, 14541), (20, 14574), (24, 14658), (27, 14700),

Gene: Cuke_15 Start: 9542, Stop: 9904, Start Num: 6

Candidate Starts for Cuke_15:

(Start: 6 @9542 has 3 MA's), (10, 9617), (11, 9626), (12, 9638), (14, 9665), (15, 9671), (20, 9740), (23, 9818),

Gene: Djokovic_17 Start: 10309, Stop: 10662, Start Num: 5

Candidate Starts for Djokovic_17:

(4, 10306), (Start: 5 @10309 has 7 MA's), (15, 10441), (25, 10594),

Gene: Fowlmouth_16 Start: 9713, Stop: 10066, Start Num: 6

Candidate Starts for Fowlmouth_16:

(Start: 6 @9713 has 3 MA's), (14, 9827), (15, 9833), (18, 9869), (20, 9902), (22, 9965),

Gene: Gimesa_23 Start: 14159, Stop: 14560, Start Num: 2

Candidate Starts for Gimesa_23:

(Start: 2 @14159 has 10 MA's), (3, 14177), (7, 14204), (11, 14264), (13, 14282), (19, 14351), (20, 14384), (24, 14468), (27, 14510),

Gene: Indlulamithi_19 Start: 11796, Stop: 12215, Start Num: 1

Candidate Starts for Indlulamithi_19:

(Start: 1 @11796 has 1 MA's), (14, 11964), (15, 11970), (20, 12042),

Gene: LilyPad_18 Start: 11024, Stop: 11326, Start Num: 9

Candidate Starts for LilyPad_18:

(Start: 9 @11024 has 1 MA's), (17, 11129), (25, 11258),

Gene: LittleFella_19 Start: 12893, Stop: 13201, Start Num: 8

Candidate Starts for LittleFella_19:

(Start: 8 @12893 has 1 MA's), (12, 12953), (16, 12986), (21, 13091), (25, 13133), (26, 13151),

Gene: Madi_17 Start: 10309, Stop: 10662, Start Num: 5

Candidate Starts for Madi_17:

(4, 10306), (Start: 5 @10309 has 7 MA's), (15, 10441), (25, 10594),

Gene: MontyDev_22 Start: 14007, Stop: 14408, Start Num: 2

Candidate Starts for MontyDev_22:

(Start: 2 @14007 has 10 MA's), (3, 14025), (7, 14052), (11, 14112), (13, 14130), (19, 14199), (20, 14232), (24, 14316), (27, 14358),

Gene: MrMiyagi_16 Start: 9714, Stop: 10067, Start Num: 6

Candidate Starts for MrMiyagi_16:

(Start: 6 @9714 has 3 MA's), (14, 9828), (15, 9834), (18, 9870), (20, 9903), (22, 9966),

Gene: Nilo_23 Start: 14346, Stop: 14747, Start Num: 2

Candidate Starts for Nilo_23:

(Start: 2 @14346 has 10 MA's), (3, 14364), (7, 14391), (11, 14451), (13, 14469), (19, 14538), (20, 14571), (24, 14655), (27, 14697),

Gene: Papyrus_22 Start: 14008, Stop: 14409, Start Num: 2

Candidate Starts for Papyrus_22:

(Start: 2 @14008 has 10 MA's), (3, 14026), (7, 14053), (11, 14113), (13, 14131), (19, 14200), (20, 14233), (24, 14317), (27, 14359),

Gene: Riparian_22 Start: 13807, Stop: 14208, Start Num: 2

Candidate Starts for Riparian_22:

(Start: 2 @13807 has 10 MA's), (3, 13825), (7, 13852), (11, 13912), (13, 13930), (19, 13999), (20, 14032), (24, 14116), (27, 14158),

Gene: Rope_22 Start: 13999, Stop: 14400, Start Num: 2

Candidate Starts for Rope_22:

(Start: 2 @13999 has 10 MA's), (3, 14017), (7, 14044), (11, 14104), (13, 14122), (19, 14191), (20, 14224), (24, 14308), (27, 14350),

Gene: Send513_22 Start: 14349, Stop: 14750, Start Num: 2

Candidate Starts for Send513_22:

(Start: 2 @14349 has 10 MA's), (3, 14367), (7, 14394), (11, 14454), (13, 14472), (19, 14541), (20, 14574), (24, 14658), (27, 14700),

Gene: Sienna_17 Start: 10309, Stop: 10662, Start Num: 5

Candidate Starts for Sienna_17:

(4, 10306), (Start: 5 @10309 has 7 MA's), (15, 10441), (25, 10594),

Gene: Suzy_18 Start: 11536, Stop: 11889, Start Num: 5

Candidate Starts for Suzy_18:

(Start: 5 @11536 has 7 MA's), (25, 11821),

Gene: Terapin_17 Start: 10309, Stop: 10662, Start Num: 5

Candidate Starts for Terapin_17:

(4, 10306), (Start: 5 @10309 has 7 MA's), (15, 10441), (25, 10594),

Gene: Weiss13_22 Start: 14039, Stop: 14440, Start Num: 2

Candidate Starts for Weiss13_22:

(Start: 2 @14039 has 10 MA's), (3, 14057), (7, 14084), (11, 14144), (13, 14162), (20, 14264), (24, 14348), (27, 14390),

Gene: Yelo_22 Start: 14349, Stop: 14750, Start Num: 2

Candidate Starts for Yelo_22:

(Start: 2 @14349 has 10 MA's), (3, 14367), (7, 14394), (11, 14454), (13, 14472), (19, 14541), (20, 14574), (24, 14658), (27, 14700),

Gene: Zenon_23 Start: 14351, Stop: 14752, Start Num: 2

Candidate Starts for Zenon_23:

(Start: 2 @14351 has 10 MA's), (3, 14369), (7, 14396), (11, 14456), (13, 14474), (19, 14543), (20, 14576), (24, 14660), (27, 14702),