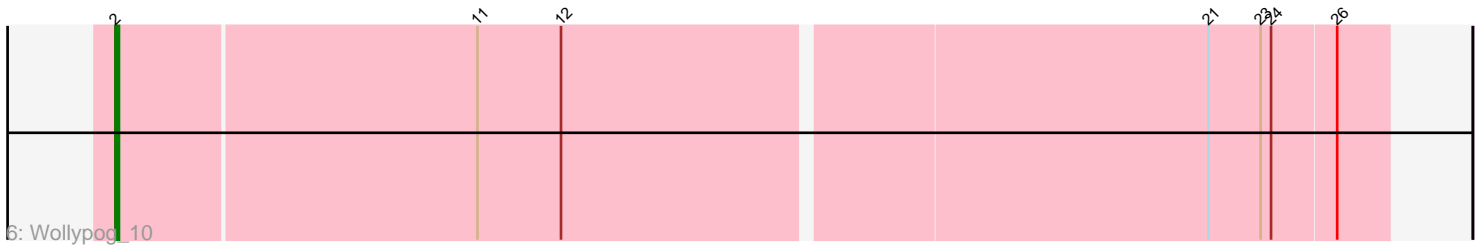
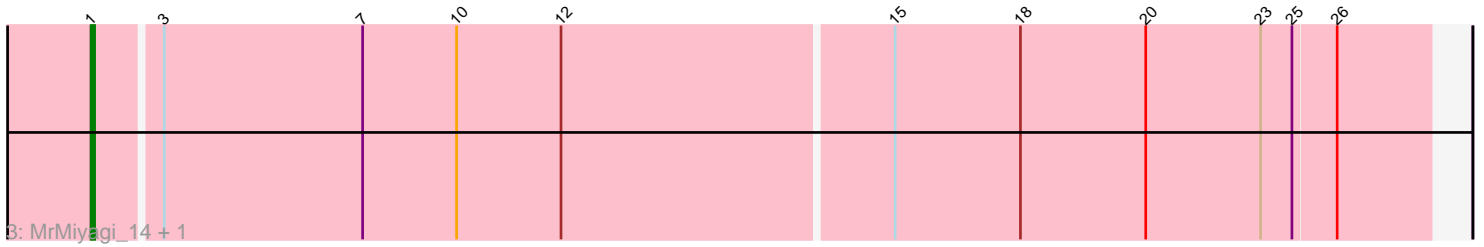
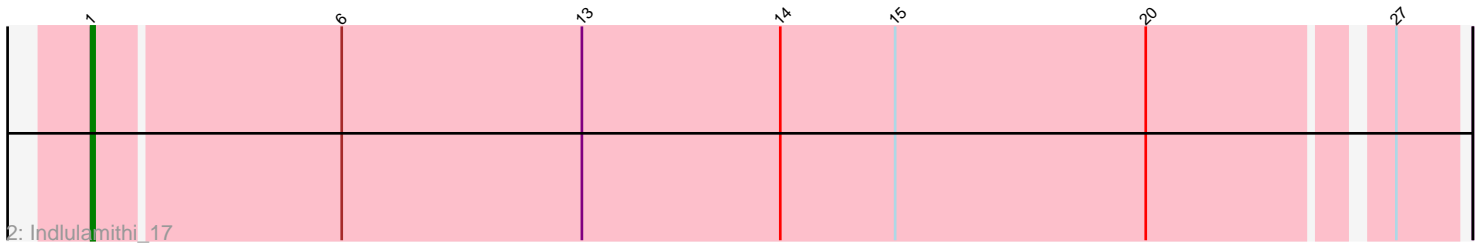
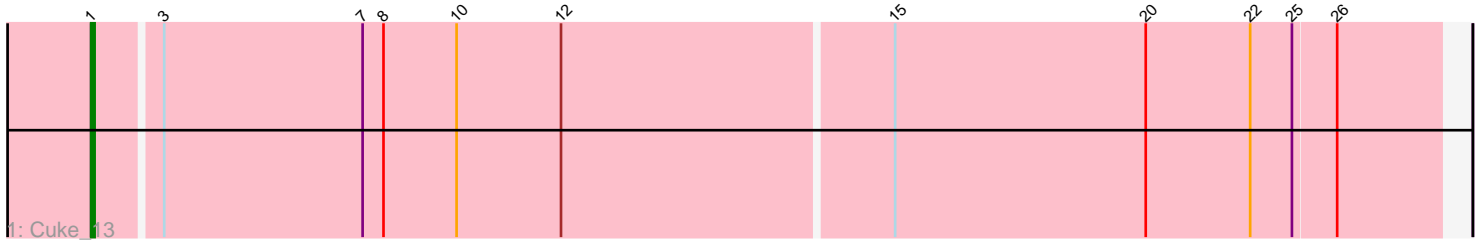


Pham 221891



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 221891 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221891 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Cuke\_13
- Track 2 : Indlulamithi\_17
- Track 3 : MrMiyagi\_14, Fowlmouth\_14
- Track 4 : Nilo\_21, Send513\_20, Papyrus\_20, Riparian\_20, Candle\_20, Zenon\_21, Yelo\_20, MontyDev\_20, Rope\_20
- Track 5 : Weiss13\_20
- Track 6 : Wollypog\_10

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

The start number called the most often in the published annotations is 1, it was called in 13 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Candle\_20, Cuke\_13, Fowlmouth\_14, Indlulamithi\_17, MontyDev\_20, MrMiyagi\_14, Nilo\_21, Papyrus\_20, Riparian\_20, Rope\_20, Send513\_20, Weiss13\_20, Yelo\_20, Zenon\_21,

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

- 

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

- Wollypog\_10,

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

Start 1:

- Found in 14 of 15 ( 93.3% ) of genes in pham
- Manual Annotations of this start: 13 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Candle\_20 (R), Cuke\_13 (AC), Fowlmouth\_14 (AC), Indlulamithi\_17 (AC), MontyDev\_20 (R), MrMiyagi\_14 (AC), Nilo\_21 (R), Papyrus\_20 (R), Riparian\_20 (R), Rope\_20 (R), Send513\_20 (R), Weiss13\_20 (R), Yelo\_20 (R), Zenon\_21 (R),

Start 2:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wollypog\_10 (singleton),

**Summary by clusters:**

There are 3 clusters represented in this pham: AC, R, singleton,

Info for manual annotations of cluster AC:

- Start number 1 was manually annotated 4 times for cluster AC.

Info for manual annotations of cluster R:

- Start number 1 was manually annotated 9 times for cluster R.

**Gene Information:**

Gene: Candle\_20 Start: 13524, Stop: 13919, Start Num: 1

Candidate Starts for Candle\_20:

(Start: 1 @13524 has 13 MA's), (4, 13569), (5, 13581), (9, 13614), (15, 13755), (16, 13761), (17, 13773), (20, 13827), (23, 13860), (28, 13905),

Gene: Cuke\_13 Start: 8734, Stop: 9114, Start Num: 1

Candidate Starts for Cuke\_13:

(Start: 1 @8734 has 13 MA's), (3, 8752), (7, 8809), (8, 8815), (10, 8836), (12, 8866), (15, 8959), (20, 9031), (22, 9061), (25, 9073), (26, 9085),

Gene: Fowlmouth\_14 Start: 8905, Stop: 9282, Start Num: 1

Candidate Starts for Fowlmouth\_14:

(Start: 1 @8905 has 13 MA's), (3, 8923), (7, 8980), (10, 9007), (12, 9037), (15, 9130), (18, 9166), (20, 9202), (23, 9235), (25, 9244), (26, 9256),

Gene: Indlulamithi\_17 Start: 10995, Stop: 11375, Start Num: 1

Candidate Starts for Indlulamithi\_17:

(Start: 1 @10995 has 13 MA's), (6, 11064), (13, 11133), (14, 11190), (15, 11223), (20, 11295), (27, 11358),

Gene: MontyDev\_20 Start: 13182, Stop: 13577, Start Num: 1

Candidate Starts for MontyDev\_20:

(Start: 1 @13182 has 13 MA's), (4, 13227), (5, 13239), (9, 13272), (15, 13413), (16, 13419), (17, 13431), (20, 13485), (23, 13518), (28, 13563),

Gene: MrMiyagi\_14 Start: 8905, Stop: 9282, Start Num: 1

Candidate Starts for MrMiyagi\_14:

(Start: 1 @8905 has 13 MA's), (3, 8923), (7, 8980), (10, 9007), (12, 9037), (15, 9130), (18, 9166), (20, 9202), (23, 9235), (25, 9244), (26, 9256),

Gene: Nilo\_21 Start: 13521, Stop: 13916, Start Num: 1

Candidate Starts for Nilo\_21:

(Start: 1 @13521 has 13 MA's), (4, 13566), (5, 13578), (9, 13611), (15, 13752), (16, 13758), (17, 13770), (20, 13824), (23, 13857), (28, 13902),

Gene: Papyrus\_20 Start: 13183, Stop: 13578, Start Num: 1

Candidate Starts for Papyrus\_20:

(Start: 1 @13183 has 13 MA's), (4, 13228), (5, 13240), (9, 13273), (15, 13414), (16, 13420), (17, 13432), (20, 13486), (23, 13519), (28, 13564),

Gene: Riparian\_20 Start: 12982, Stop: 13377, Start Num: 1

Candidate Starts for Riparian\_20:

(Start: 1 @12982 has 13 MA's), (4, 13027), (5, 13039), (9, 13072), (15, 13213), (16, 13219), (17, 13231), (20, 13285), (23, 13318), (28, 13363),

Gene: Rope\_20 Start: 13174, Stop: 13569, Start Num: 1

Candidate Starts for Rope\_20:

(Start: 1 @13174 has 13 MA's), (4, 13219), (5, 13231), (9, 13264), (15, 13405), (16, 13411), (17, 13423), (20, 13477), (23, 13510), (28, 13555),

Gene: Send513\_20 Start: 13524, Stop: 13919, Start Num: 1

Candidate Starts for Send513\_20:

(Start: 1 @13524 has 13 MA's), (4, 13569), (5, 13581), (9, 13614), (15, 13755), (16, 13761), (17, 13773), (20, 13827), (23, 13860), (28, 13905),

Gene: Weiss13\_20 Start: 13214, Stop: 13609, Start Num: 1

Candidate Starts for Weiss13\_20:

(Start: 1 @13214 has 13 MA's), (4, 13259), (5, 13271), (9, 13304), (15, 13445), (16, 13451), (17, 13463), (19, 13514), (20, 13517), (23, 13550), (28, 13595),

Gene: Wollypog\_10 Start: 8603, Stop: 8959, Start Num: 2

Candidate Starts for Wollypog\_10:

(Start: 2 @8603 has 1 MA's), (11, 8705), (12, 8729), (21, 8909), (23, 8924), (24, 8927), (26, 8945),

Gene: Yelo\_20 Start: 13524, Stop: 13919, Start Num: 1

Candidate Starts for Yelo\_20:

(Start: 1 @13524 has 13 MA's), (4, 13569), (5, 13581), (9, 13614), (15, 13755), (16, 13761), (17, 13773), (20, 13827), (23, 13860), (28, 13905),

Gene: Zenon\_21 Start: 13526, Stop: 13921, Start Num: 1

Candidate Starts for Zenon\_21:

(Start: 1 @13526 has 13 MA's), (4, 13571), (5, 13583), (9, 13616), (15, 13757), (16, 13763), (17, 13775), (20, 13829), (23, 13862), (28, 13907),