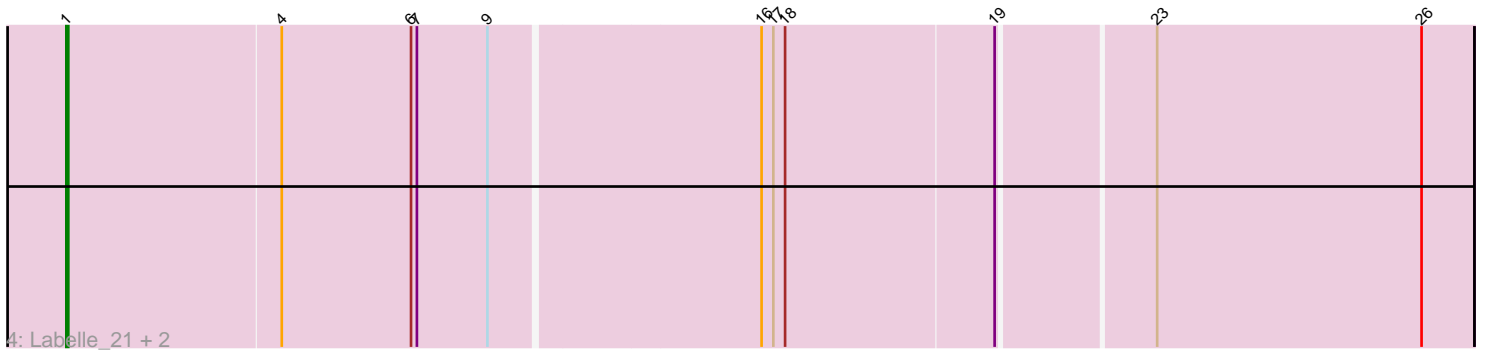
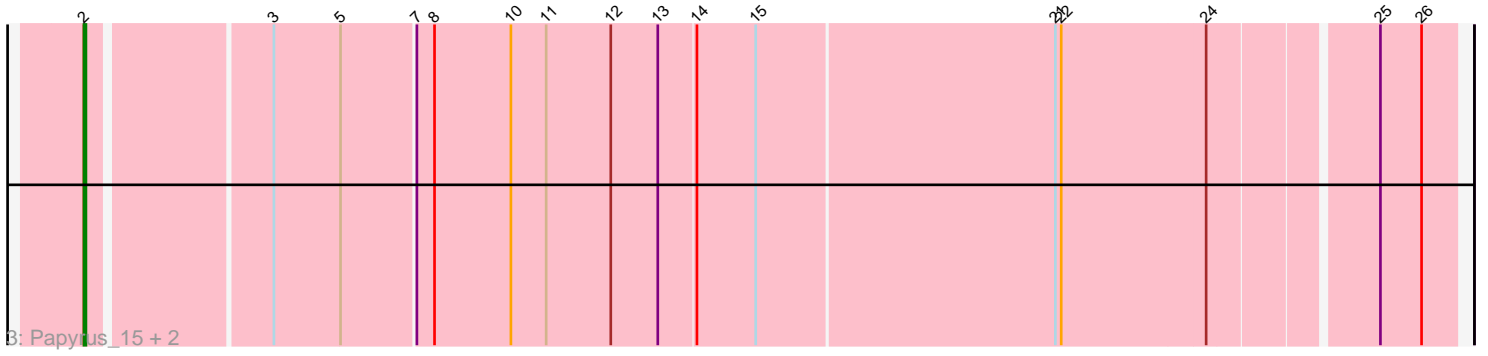
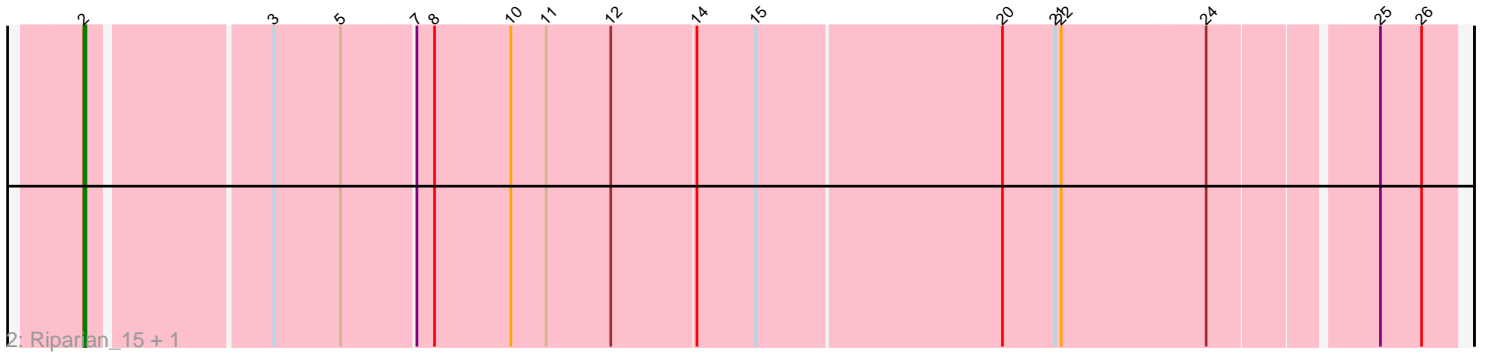
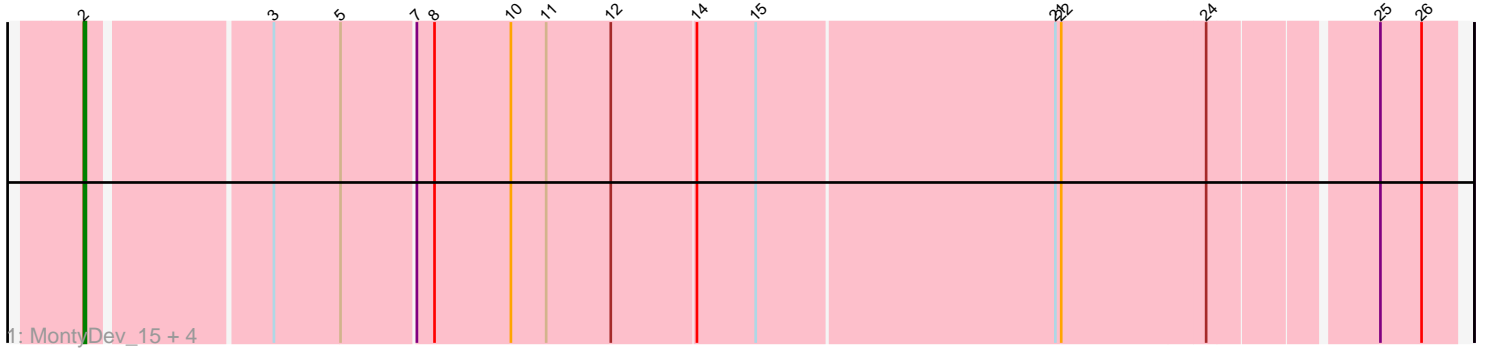


# Pham 166109



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 166109 Report

This analysis was run 07/09/24 on database version 566.

Pham number 166109 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : MontyDev\_15, Candle\_15, Nilo\_16, Zenon\_16, Send513\_15
- Track 2 : Riparian\_15, Yelo\_15
- Track 3 : Papyrus\_15, Weiss13\_15, Rope\_15
- Track 4 : Labelle\_21, Patience\_22, Madruga\_20

### ***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 9 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Candle\_15, MontyDev\_15, Nilo\_16, Papyrus\_15, Riparian\_15, Rope\_15, Send513\_15, Weiss13\_15, Yelo\_15, Zenon\_16,

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

- 

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

- Labelle\_21, Madruga\_20, Patience\_22,

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

Start 1:

- Found in 3 of 13 ( 23.1% ) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Labelle\_21 (U), Madruga\_20 (U), Patience\_22 (U),

Start 2:

- Found in 10 of 13 ( 76.9% ) of genes in pham
- Manual Annotations of this start: 9 of 12
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Candle\_15 (R), MontyDev\_15 (R), Nilo\_16 (R), Papyrus\_15 (R), Riparian\_15 (R), Rope\_15 (R), Send513\_15 (R), Weiss13\_15 (R), Yelo\_15 (R), Zenon\_16 (R),

### **Summary by clusters:**

There are 2 clusters represented in this pham: R, U,

Info for manual annotations of cluster R:

- Start number 2 was manually annotated 9 times for cluster R.

Info for manual annotations of cluster U:

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

### **Gene Information:**

Gene: Candle\_15 Start: 10499, Stop: 11167, Start Num: 2

Candidate Starts for Candle\_15:

(Start: 2 @10499 has 9 MA's), (3, 10586), (5, 10619), (7, 10655), (8, 10664), (10, 10703), (11, 10721), (12, 10754), (14, 10796), (15, 10826), (21, 10976), (22, 10979), (24, 11051), (25, 11129), (26, 11150),

Gene: Labelle\_21 Start: 12753, Stop: 13451, Start Num: 1

Candidate Starts for Labelle\_21:

(Start: 1 @12753 has 3 MA's), (4, 12861), (6, 12927), (7, 12930), (9, 12966), (16, 13098), (17, 13104), (18, 13110), (19, 13215), (23, 13290), (26, 13425),

Gene: Madruga\_20 Start: 12421, Stop: 13119, Start Num: 1

Candidate Starts for Madruga\_20:

(Start: 1 @12421 has 3 MA's), (4, 12529), (6, 12595), (7, 12598), (9, 12634), (16, 12766), (17, 12772), (18, 12778), (19, 12883), (23, 12958), (26, 13093),

Gene: MontyDev\_15 Start: 10157, Stop: 10825, Start Num: 2

Candidate Starts for MontyDev\_15:

(Start: 2 @10157 has 9 MA's), (3, 10244), (5, 10277), (7, 10313), (8, 10322), (10, 10361), (11, 10379), (12, 10412), (14, 10454), (15, 10484), (21, 10634), (22, 10637), (24, 10709), (25, 10787), (26, 10808),

Gene: Nilo\_16 Start: 10496, Stop: 11164, Start Num: 2

Candidate Starts for Nilo\_16:

(Start: 2 @10496 has 9 MA's), (3, 10583), (5, 10616), (7, 10652), (8, 10661), (10, 10700), (11, 10718), (12, 10751), (14, 10793), (15, 10823), (21, 10973), (22, 10976), (24, 11048), (25, 11126), (26, 11147),

Gene: Papyrus\_15 Start: 10158, Stop: 10826, Start Num: 2

Candidate Starts for Papyrus\_15:

(Start: 2 @10158 has 9 MA's), (3, 10245), (5, 10278), (7, 10314), (8, 10323), (10, 10362), (11, 10380), (12, 10413), (13, 10437), (14, 10455), (15, 10485), (21, 10635), (22, 10638), (24, 10710), (25, 10788), (26, 10809),

Gene: Patience\_22 Start: 13312, Stop: 14010, Start Num: 1

Candidate Starts for Patience\_22:

(Start: 1 @13312 has 3 MA's), (4, 13420), (6, 13486), (7, 13489), (9, 13525), (16, 13657), (17, 13663), (18, 13669), (19, 13774), (23, 13849), (26, 13984),

Gene: Riparian\_15 Start: 9957, Stop: 10625, Start Num: 2

Candidate Starts for Riparian\_15:

(Start: 2 @9957 has 9 MA's), (3, 10044), (5, 10077), (7, 10113), (8, 10122), (10, 10161), (11, 10179), (12, 10212), (14, 10254), (15, 10284), (20, 10407), (21, 10434), (22, 10437), (24, 10509), (25, 10587), (26, 10608),

Gene: Rope\_15 Start: 10149, Stop: 10817, Start Num: 2

Candidate Starts for Rope\_15:

(Start: 2 @10149 has 9 MA's), (3, 10236), (5, 10269), (7, 10305), (8, 10314), (10, 10353), (11, 10371), (12, 10404), (13, 10428), (14, 10446), (15, 10476), (21, 10626), (22, 10629), (24, 10701), (25, 10779), (26, 10800),

Gene: Send513\_15 Start: 10499, Stop: 11167, Start Num: 2

Candidate Starts for Send513\_15:

(Start: 2 @10499 has 9 MA's), (3, 10586), (5, 10619), (7, 10655), (8, 10664), (10, 10703), (11, 10721), (12, 10754), (14, 10796), (15, 10826), (21, 10976), (22, 10979), (24, 11051), (25, 11129), (26, 11150),

Gene: Weiss13\_15 Start: 10189, Stop: 10857, Start Num: 2

Candidate Starts for Weiss13\_15:

(Start: 2 @10189 has 9 MA's), (3, 10276), (5, 10309), (7, 10345), (8, 10354), (10, 10393), (11, 10411), (12, 10444), (13, 10468), (14, 10486), (15, 10516), (21, 10666), (22, 10669), (24, 10741), (25, 10819), (26, 10840),

Gene: Yelo\_15 Start: 10499, Stop: 11167, Start Num: 2

Candidate Starts for Yelo\_15:

(Start: 2 @10499 has 9 MA's), (3, 10586), (5, 10619), (7, 10655), (8, 10664), (10, 10703), (11, 10721), (12, 10754), (14, 10796), (15, 10826), (20, 10949), (21, 10976), (22, 10979), (24, 11051), (25, 11129), (26, 11150),

Gene: Zenon\_16 Start: 10501, Stop: 11169, Start Num: 2

Candidate Starts for Zenon\_16:

(Start: 2 @10501 has 9 MA's), (3, 10588), (5, 10621), (7, 10657), (8, 10666), (10, 10705), (11, 10723), (12, 10756), (14, 10798), (15, 10828), (21, 10978), (22, 10981), (24, 11053), (25, 11131), (26, 11152),