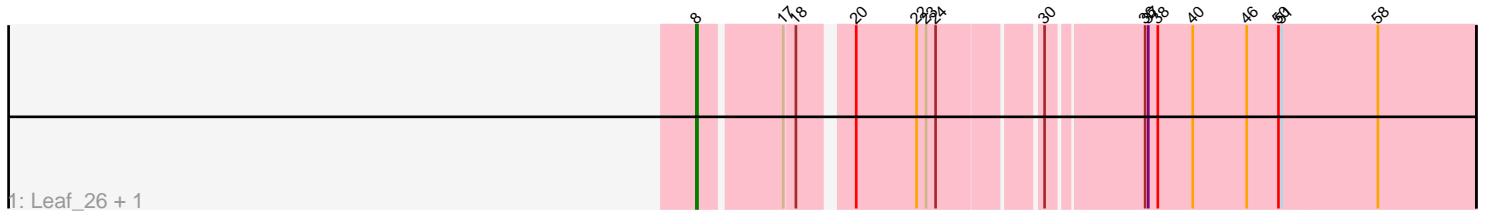
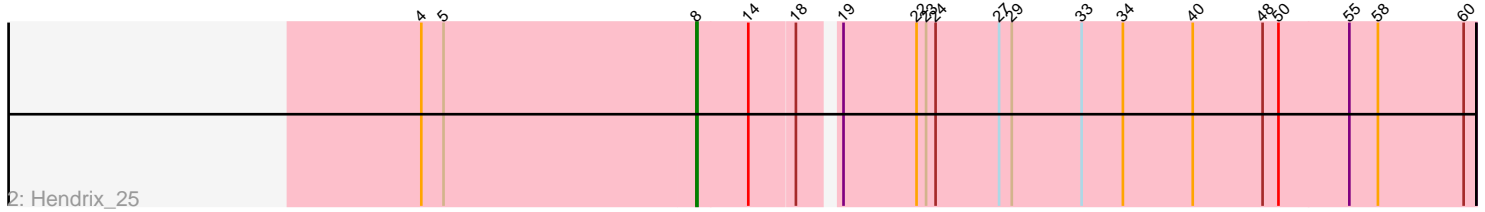


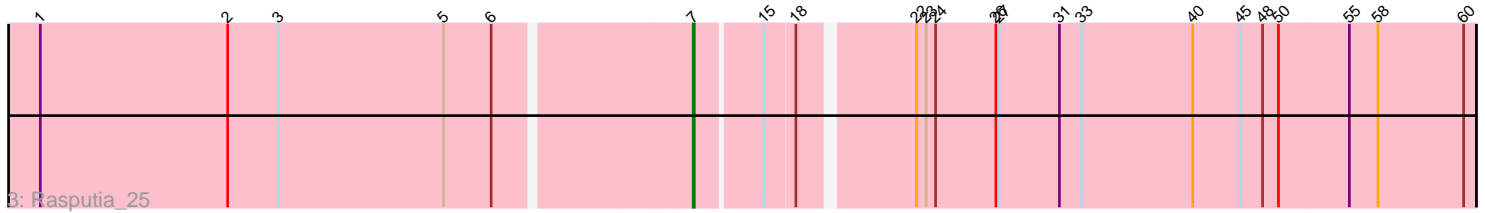
# Pham 293442



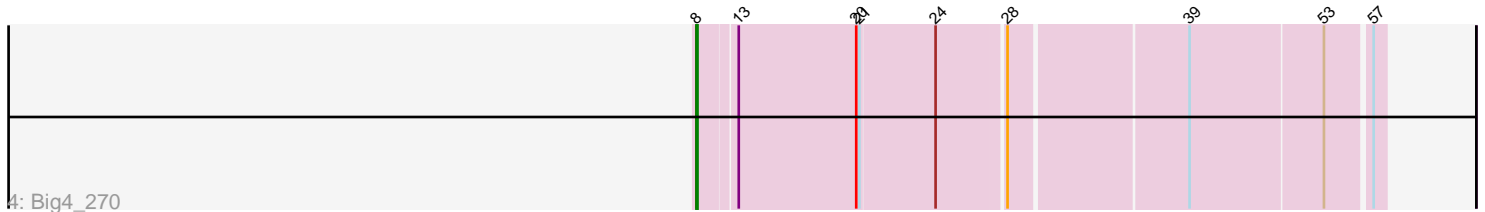
1: Leaf\_26 + 1



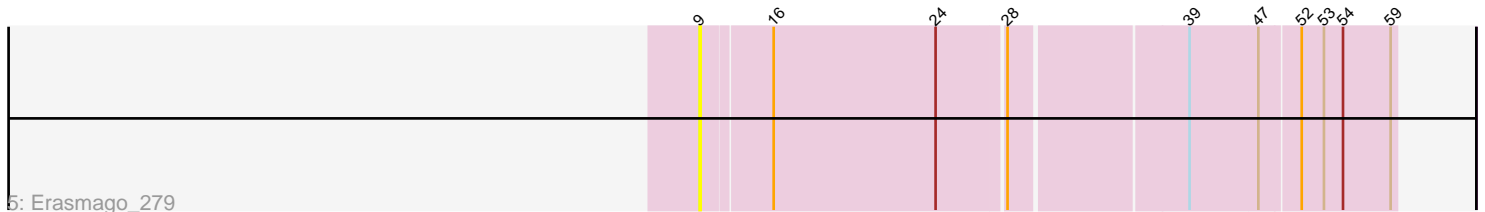
2: Hendrix\_25



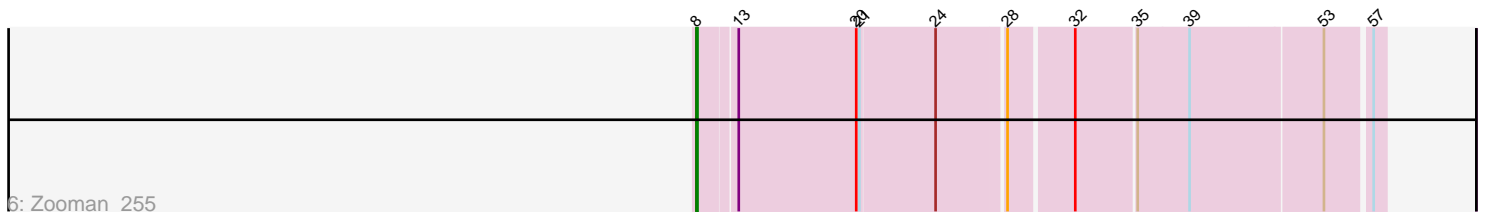
3: Rasputia\_25



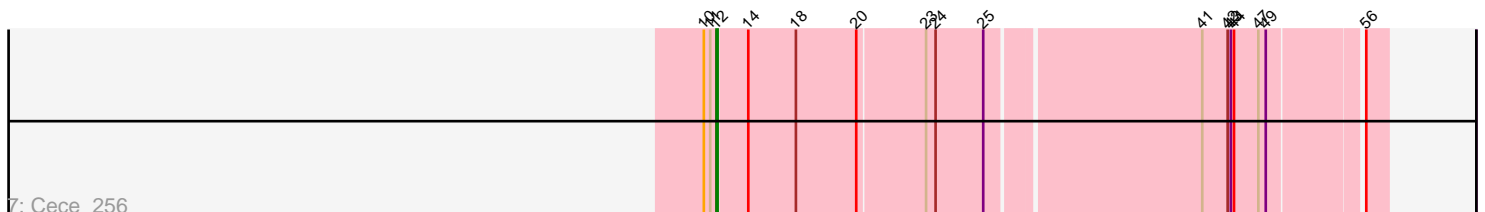
4: Big4\_270



5: Erasmago\_279



6: Zooman\_255



7: Cece\_256

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 293442 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293442 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Leaf\_26, Dewdrop\_26
- Track 2 : Hendrix\_25
- Track 3 : Rasputia\_25
- Track 4 : Big4\_270
- Track 5 : Erasmago\_279
- Track 6 : Zooman\_255
- Track 7 : Cece\_256

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

The start number called the most often in the published annotations is 8, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Big4\_270, Dewdrop\_26, Hendrix\_25, Leaf\_26, Zooman\_255,

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

- 

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

- Cece\_256, Erasmago\_279, Rasputia\_25,

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

Start 7:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rasputia\_25 (GC),

Start 8:

- Found in 5 of 8 ( 62.5% ) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Big4\_270 (GD2), Dewdrop\_26 (GC), Hendrix\_25 (GC), Leaf\_26 (GC), Zooman\_255 (GD2),

Start 9:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Erasmago\_279 (GD2),

Start 12:

- Found in 1 of 8 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece\_256 (GD3),

### **Summary by clusters:**

There are 3 clusters represented in this pham: GD2, GD3, GC,

Info for manual annotations of cluster GC:

- Start number 7 was manually annotated 1 time for cluster GC.
- Start number 8 was manually annotated 3 times for cluster GC.

Info for manual annotations of cluster GD2:

- Start number 8 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 12 was manually annotated 1 time for cluster GD3.

### **Gene Information:**

Gene: Big4\_270 Start: 153748, Stop: 154353, Start Num: 8

Candidate Starts for Big4\_270:

(Start: 8 @153748 has 5 MA's), (13, 153781), (20, 153892), (21, 153895), (24, 153964), (28, 154024), (39, 154183), (53, 154303), (57, 154342),

Gene: Cece\_256 Start: 150473, Stop: 151066, Start Num: 12

Candidate Starts for Cece\_256:

(10, 150461), (11, 150467), (Start: 12 @150473 has 1 MA's), (14, 150500), (18, 150545), (20, 150602), (23, 150662), (24, 150671), (25, 150716), (41, 150908), (42, 150932), (43, 150935), (44, 150938), (47, 150959), (49, 150965), (56, 151046),

Gene: Dewdrop\_26 Start: 10810, Stop: 11490, Start Num: 8

Candidate Starts for Dewdrop\_26:

(Start: 8 @10810 has 5 MA's), (17, 10882), (18, 10891), (20, 10933), (22, 10990), (23, 10999), (24, 11008), (30, 11095), (36, 11179), (37, 11182), (38, 11191), (40, 11224), (46, 11275), (50, 11305), (51, 11308), (58, 11398),

Gene: Erasmago\_279 Start: 154021, Stop: 154644, Start Num: 9

Candidate Starts for Erasmago\_279:

(9, 154021), (16, 154084), (24, 154237), (28, 154297), (39, 154456), (47, 154519), (52, 154555), (53, 154576), (54, 154594), (59, 154639),

Gene: Hendrix\_25 Start: 11316, Stop: 12032, Start Num: 8

Candidate Starts for Hendrix\_25:

(4, 11058), (5, 11079), (Start: 8 @11316 has 5 MA's), (14, 11364), (18, 11406), (19, 11436), (22, 11505), (23, 11514), (24, 11523), (27, 11583), (29, 11595), (33, 11661), (34, 11700), (40, 11766), (48, 11832), (50, 11847), (55, 11913), (58, 11940), (60, 12021),

Gene: Leaf\_26 Start: 10810, Stop: 11490, Start Num: 8

Candidate Starts for Leaf\_26:

(Start: 8 @10810 has 5 MA's), (17, 10882), (18, 10891), (20, 10933), (22, 10990), (23, 10999), (24, 11008), (30, 11095), (36, 11179), (37, 11182), (38, 11191), (40, 11224), (46, 11275), (50, 11305), (51, 11308), (58, 11398),

Gene: Rasputia\_25 Start: 10886, Stop: 11599, Start Num: 7

Candidate Starts for Rasputia\_25:

(1, 10286), (2, 10463), (3, 10511), (5, 10667), (6, 10712), (Start: 7 @10886 has 1 MA's), (15, 10946), (18, 10973), (22, 11072), (23, 11081), (24, 11090), (26, 11147), (27, 11150), (31, 11207), (33, 11228), (40, 11333), (45, 11378), (48, 11399), (50, 11414), (55, 11480), (58, 11507), (60, 11588),

Gene: Zooman\_255 Start: 153487, Stop: 154092, Start Num: 8

Candidate Starts for Zooman\_255:

(Start: 8 @153487 has 5 MA's), (13, 153520), (20, 153631), (21, 153634), (24, 153703), (28, 153763), (32, 153820), (35, 153874), (39, 153922), (53, 154042), (57, 154081),