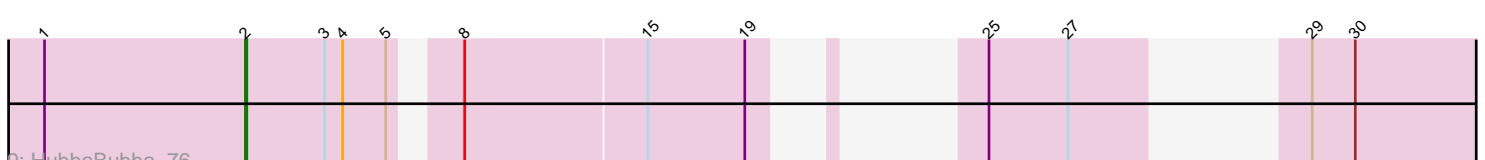
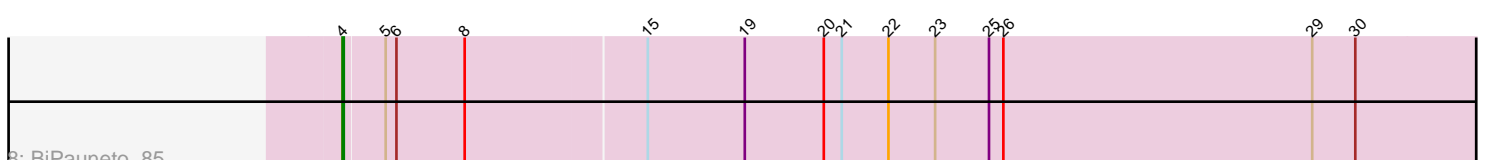
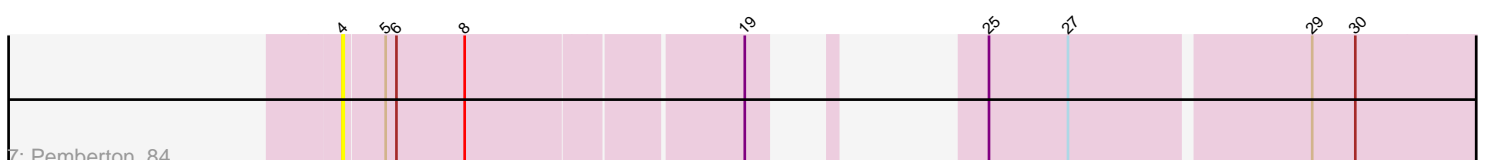
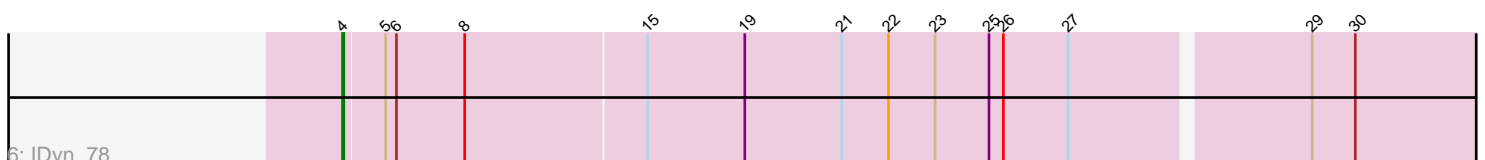
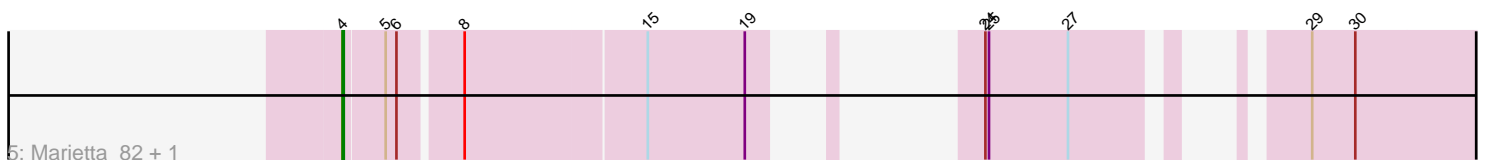
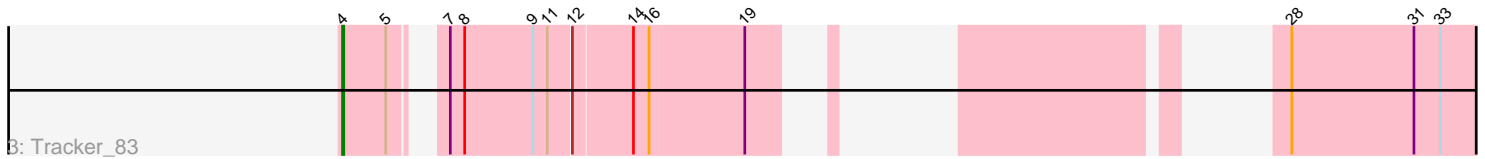
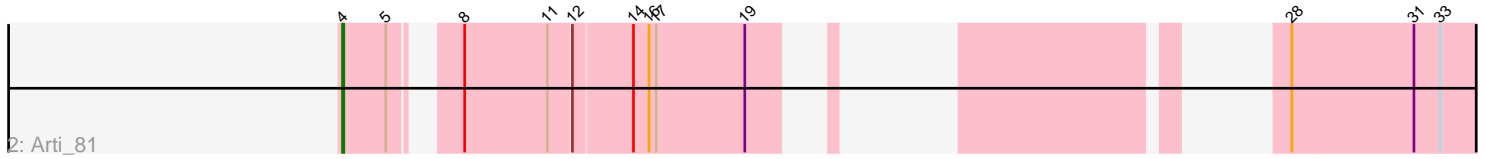
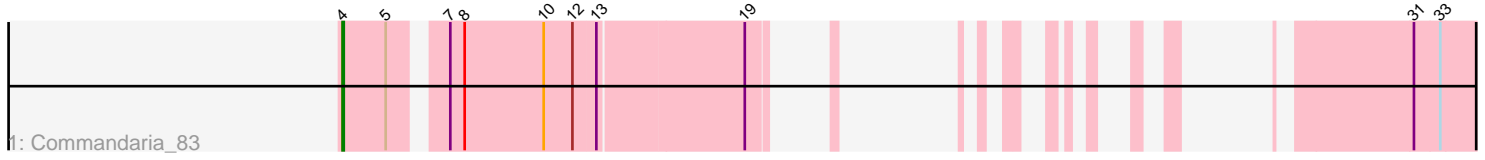


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 295249 Report

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

Pham number 295249 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Commandaria\_83
- Track 2 : Arti\_81
- Track 3 : Tracker\_83
- Track 4 : Yndexa\_82, Sukkupi\_82
- Track 5 : Marietta\_82, WhoseManz\_82
- Track 6 : IDyn\_78
- Track 7 : Pemberton\_84
- Track 8 : BiPauneto\_85
- Track 9 : HubbaBubba\_76
- Track 10 : NadineRae\_82

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arti\_81, BiPauneto\_85, Commandaria\_83, IDyn\_78, Marietta\_82, NadineRae\_82, Pemberton\_84, Sukkupi\_82, Tracker\_83, WhoseManz\_82, Yndexa\_82,

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

- HubbaBubba\_76,

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

- 

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

Start 2:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HubbaBubba\_76 (CR4),

#### Start 4:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 11
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Arti\_81 (CR2), BiPauneto\_85 (CR4), Commandaria\_83 (CR2), IDyn\_78 (CR4), Marietta\_82 (CR4), NadineRae\_82 (CR4), Pemberton\_84 (CR4), Sukkupi\_82 (CR4), Tracker\_83 (CR2), WhoseManz\_82 (CR4), Yndexa\_82 (CR4),

#### Summary by clusters:

There are 2 clusters represented in this pham: CR2, CR4,

Info for manual annotations of cluster CR2:

- Start number 4 was manually annotated 3 times for cluster CR2.

Info for manual annotations of cluster CR4:

- Start number 2 was manually annotated 1 time for cluster CR4.
- Start number 4 was manually annotated 7 times for cluster CR4.

#### Gene Information:

Gene: Arti\_81 Start: 60752, Stop: 61423, Start Num: 4

Candidate Starts for Arti\_81:

(Start: 4 @60752 has 10 MA's), (5, 60788), (8, 60824), (11, 60893), (12, 60911), (14, 60959), (16, 60971), (17, 60977), (19, 61049), (28, 61274), (31, 61373), (33, 61394),

Gene: BiPauneto\_85 Start: 60351, Stop: 61298, Start Num: 4

Candidate Starts for BiPauneto\_85:

(Start: 4 @60351 has 10 MA's), (5, 60384), (6, 60393), (8, 60450), (15, 60597), (19, 60678), (20, 60744), (21, 60759), (22, 60798), (23, 60837), (25, 60882), (26, 60894), (29, 61152), (30, 61188),

Gene: Commandaria\_83 Start: 62248, Stop: 62793, Start Num: 4

Candidate Starts for Commandaria\_83:

(Start: 4 @62248 has 10 MA's), (5, 62284), (7, 62320), (8, 62332), (10, 62398), (12, 62422), (13, 62440), (19, 62557), (31, 62743), (33, 62764),

Gene: HubbaBubba\_76 Start: 56883, Stop: 57623, Start Num: 2

Candidate Starts for HubbaBubba\_76:

(1, 56715), (Start: 2 @56883 has 1 MA's), (3, 56946), (Start: 4 @56961 has 10 MA's), (5, 56997), (8, 57036), (15, 57183), (19, 57264), (25, 57318), (27, 57384), (29, 57477), (30, 57513),

Gene: IDyn\_78 Start: 57345, Stop: 58277, Start Num: 4

Candidate Starts for IDyn\_78:

(Start: 4 @57345 has 10 MA's), (5, 57378), (6, 57387), (8, 57444), (15, 57591), (19, 57672), (21, 57753), (22, 57792), (23, 57831), (25, 57876), (26, 57888), (27, 57942), (29, 58131), (30, 58167),

Gene: Marietta\_82 Start: 58248, Stop: 58952, Start Num: 4

Candidate Starts for Marietta\_82:

(Start: 4 @58248 has 10 MA's), (5, 58281), (6, 58290), (8, 58338), (15, 58485), (19, 58566), (24, 58617), (25, 58620), (27, 58686), (29, 58806), (30, 58842),

Gene: NadineRae\_82 Start: 57860, Stop: 58789, Start Num: 4

Candidate Starts for NadineRae\_82:

(Start: 4 @57860 has 10 MA's), (5, 57893), (6, 57902), (8, 57959), (18, 58115), (19, 58187), (20, 58253), (21, 58268), (22, 58307), (25, 58391), (27, 58457), (29, 58643), (30, 58679),

Gene: Pemberton\_84 Start: 58423, Stop: 59199, Start Num: 4

Candidate Starts for Pemberton\_84:

(Start: 4 @58423 has 10 MA's), (5, 58456), (6, 58465), (8, 58522), (19, 58741), (25, 58795), (27, 58861), (29, 59053), (30, 59089),

Gene: Sukkupi\_82 Start: 59892, Stop: 60665, Start Num: 4

Candidate Starts for Sukkupi\_82:

(Start: 4 @59892 has 10 MA's), (5, 59925), (6, 59934), (8, 59991), (15, 60138), (19, 60219), (24, 60258), (25, 60261), (29, 60519), (30, 60555), (32, 60606),

Gene: Tracker\_83 Start: 60885, Stop: 61556, Start Num: 4

Candidate Starts for Tracker\_83:

(Start: 4 @60885 has 10 MA's), (5, 60921), (7, 60945), (8, 60957), (9, 61014), (11, 61026), (12, 61044), (14, 61092), (16, 61104), (19, 61182), (28, 61407), (31, 61506), (33, 61527),

Gene: WhoseManz\_82 Start: 57908, Stop: 58612, Start Num: 4

Candidate Starts for WhoseManz\_82:

(Start: 4 @57908 has 10 MA's), (5, 57941), (6, 57950), (8, 57998), (15, 58145), (19, 58226), (24, 58277), (25, 58280), (27, 58346), (29, 58466), (30, 58502),

Gene: Yndexa\_82 Start: 59892, Stop: 60665, Start Num: 4

Candidate Starts for Yndexa\_82:

(Start: 4 @59892 has 10 MA's), (5, 59925), (6, 59934), (8, 59991), (15, 60138), (19, 60219), (24, 60258), (25, 60261), (29, 60519), (30, 60555), (32, 60606),