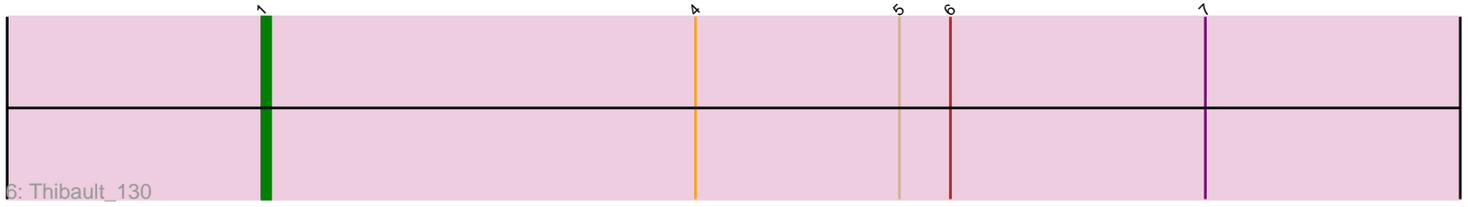
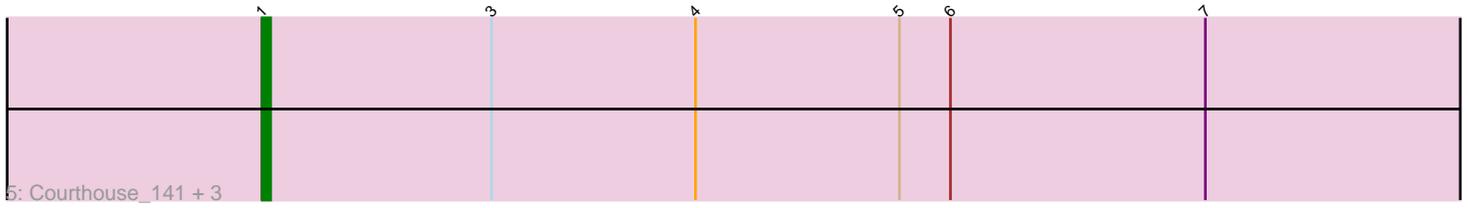
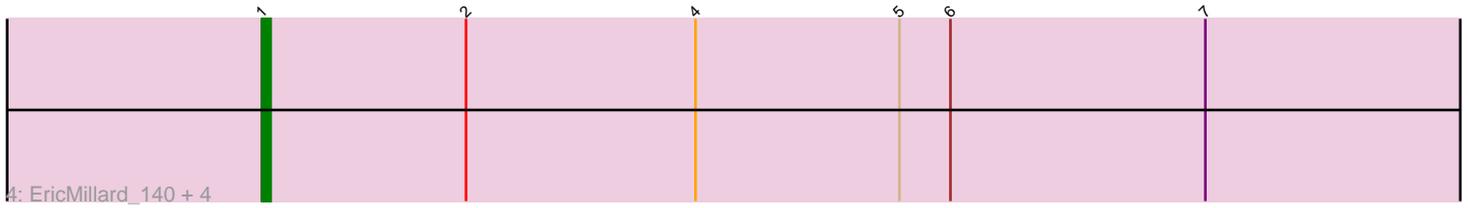
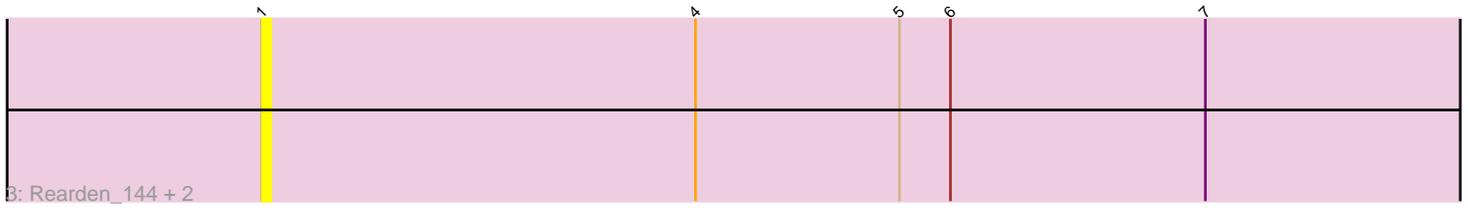
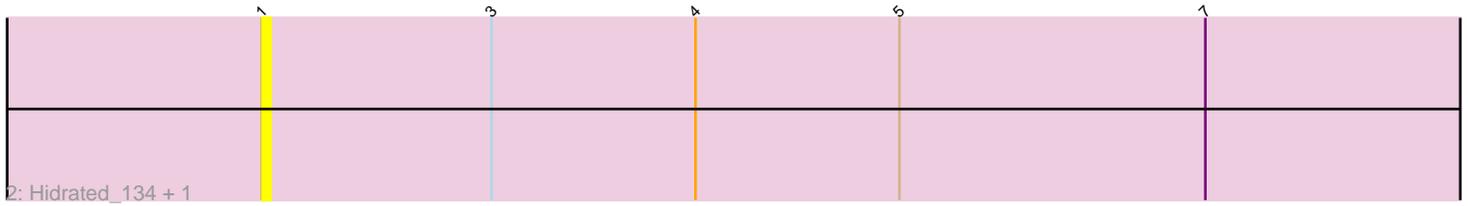
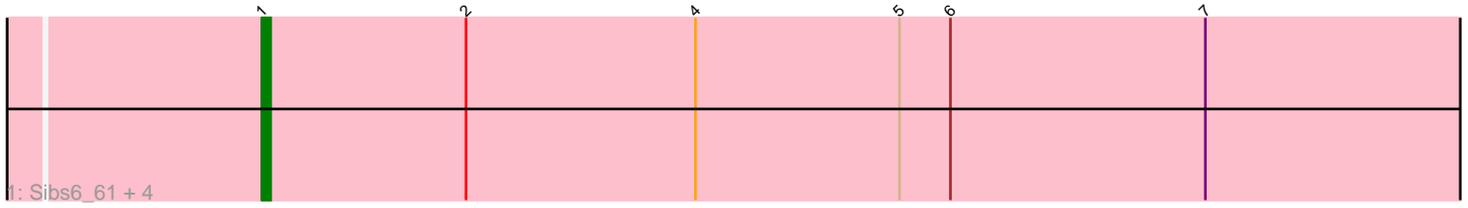


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 284186 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284186 has 21 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Sibs6\_61, Zephyr\_60, MPlant7149\_58, PinkPlastic\_59, Magnito\_58
- Track 2 : Hidrated\_134, Xiaokay\_144
- Track 3 : Rearden\_144, Gonephishing\_139, Nekros\_143
- Track 4 : EricMillard\_140, Optimus\_139, Bagrid\_149, BAKA\_148, Duke13\_144
- Track 5 : Courthouse\_141, Ariel\_145, Hannaconda\_139, Superphikiman\_143
- Track 6 : Thibault\_130
- Track 7 : Stellammi\_136

### ***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 14 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel\_145, BAKA\_148, Bagrid\_149, Courthouse\_141, Duke13\_144, EricMillard\_140, Gonephishing\_139, Hannaconda\_139, Hidrated\_134, MPlant7149\_58, Magnito\_58, Nekros\_143, Optimus\_139, PinkPlastic\_59, Rearden\_144, Sibs6\_61, Stellammi\_136, Superphikiman\_143, Thibault\_130, Xiaokay\_144, Zephyr\_60,

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

- 

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

- 

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

Start 1:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 14 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel\_145 (J), BAKA\_148 (J), Bagrid\_149 (J), Courthouse\_141 (J), Duke13\_144 (J), EricMillard\_140 (J), Gonephishing\_139 (J), Hannaconda\_139 (J), Hidrated\_134 (J), MPlant7149\_58 (A1),

Magnito\_58 (A1), Nekros\_143 (J), Optimus\_139 (J), PinkPlastic\_59 (A1), Rearden\_144 (J), Sibs6\_61 (A1), Stellammi\_136 (UNK), Superphikiman\_143 (J), Thibault\_130 (J), Xiaokay\_144 (J), Zephyr\_60 (A1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A1, J, UNK,

Info for manual annotations of cluster A1:

- Start number 1 was manually annotated 5 times for cluster A1.

Info for manual annotations of cluster J:

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

### **Gene Information:**

Gene: Ariel\_145 Start: 73854, Stop: 74024, Start Num: 1

Candidate Starts for Ariel\_145:

(Start: 1 @73854 has 14 MA's), (3, 73881), (4, 73905), (5, 73929), (6, 73935), (7, 73965),

Gene: BAKA\_148 Start: 77184, Stop: 77354, Start Num: 1

Candidate Starts for BAKA\_148:

(Start: 1 @77184 has 14 MA's), (2, 77208), (4, 77235), (5, 77259), (6, 77265), (7, 77295),

Gene: Bagrid\_149 Start: 77879, Stop: 78049, Start Num: 1

Candidate Starts for Bagrid\_149:

(Start: 1 @77879 has 14 MA's), (2, 77903), (4, 77930), (5, 77954), (6, 77960), (7, 77990),

Gene: Courthouse\_141 Start: 73712, Stop: 73882, Start Num: 1

Candidate Starts for Courthouse\_141:

(Start: 1 @73712 has 14 MA's), (3, 73739), (4, 73763), (5, 73787), (6, 73793), (7, 73823),

Gene: Duke13\_144 Start: 75469, Stop: 75639, Start Num: 1

Candidate Starts for Duke13\_144:

(Start: 1 @75469 has 14 MA's), (2, 75493), (4, 75520), (5, 75544), (6, 75550), (7, 75580),

Gene: EricMillard\_140 Start: 76821, Stop: 76991, Start Num: 1

Candidate Starts for EricMillard\_140:

(Start: 1 @76821 has 14 MA's), (2, 76845), (4, 76872), (5, 76896), (6, 76902), (7, 76932),

Gene: Gonephishing\_139 Start: 73945, Stop: 74115, Start Num: 1

Candidate Starts for Gonephishing\_139:

(Start: 1 @73945 has 14 MA's), (4, 73996), (5, 74020), (6, 74026), (7, 74056),

Gene: Hannaconda\_139 Start: 74461, Stop: 74631, Start Num: 1

Candidate Starts for Hannaconda\_139:

(Start: 1 @74461 has 14 MA's), (3, 74488), (4, 74512), (5, 74536), (6, 74542), (7, 74572),

Gene: Hidrated\_134 Start: 77064, Stop: 77234, Start Num: 1

Candidate Starts for Hidrated\_134:

(Start: 1 @77064 has 14 MA's), (3, 77091), (4, 77115), (5, 77139), (7, 77175),

Gene: MPlant7149\_58 Start: 38800, Stop: 38630, Start Num: 1

Candidate Starts for MPlant7149\_58:

(Start: 1 @38800 has 14 MA's), (2, 38776), (4, 38749), (5, 38725), (6, 38719), (7, 38689),

Gene: Magnito\_58 Start: 39967, Stop: 39797, Start Num: 1

Candidate Starts for Magnito\_58:

(Start: 1 @39967 has 14 MA's), (2, 39943), (4, 39916), (5, 39892), (6, 39886), (7, 39856),

Gene: Nekros\_143 Start: 77051, Stop: 77221, Start Num: 1

Candidate Starts for Nekros\_143:

(Start: 1 @77051 has 14 MA's), (4, 77102), (5, 77126), (6, 77132), (7, 77162),

Gene: Optimus\_139 Start: 75143, Stop: 75313, Start Num: 1

Candidate Starts for Optimus\_139:

(Start: 1 @75143 has 14 MA's), (2, 75167), (4, 75194), (5, 75218), (6, 75224), (7, 75254),

Gene: PinkPlastic\_59 Start: 39832, Stop: 39662, Start Num: 1

Candidate Starts for PinkPlastic\_59:

(Start: 1 @39832 has 14 MA's), (2, 39808), (4, 39781), (5, 39757), (6, 39751), (7, 39721),

Gene: Rearden\_144 Start: 76460, Stop: 76630, Start Num: 1

Candidate Starts for Rearden\_144:

(Start: 1 @76460 has 14 MA's), (4, 76511), (5, 76535), (6, 76541), (7, 76571),

Gene: Sibs6\_61 Start: 38862, Stop: 38692, Start Num: 1

Candidate Starts for Sibs6\_61:

(Start: 1 @38862 has 14 MA's), (2, 38838), (4, 38811), (5, 38787), (6, 38781), (7, 38751),

Gene: Stellammi\_136 Start: 60941, Stop: 61135, Start Num: 1

Candidate Starts for Stellammi\_136:

(Start: 1 @60941 has 14 MA's), (2, 60965),

Gene: Superphikiman\_143 Start: 73994, Stop: 74164, Start Num: 1

Candidate Starts for Superphikiman\_143:

(Start: 1 @73994 has 14 MA's), (3, 74021), (4, 74045), (5, 74069), (6, 74075), (7, 74105),

Gene: Thibault\_130 Start: 74570, Stop: 74740, Start Num: 1

Candidate Starts for Thibault\_130:

(Start: 1 @74570 has 14 MA's), (4, 74621), (5, 74645), (6, 74651), (7, 74681),

Gene: Xiaokay\_144 Start: 78000, Stop: 78170, Start Num: 1

Candidate Starts for Xiaokay\_144:

(Start: 1 @78000 has 14 MA's), (3, 78027), (4, 78051), (5, 78075), (7, 78111),

Gene: Zephyr\_60 Start: 39858, Stop: 39688, Start Num: 1

Candidate Starts for Zephyr\_60:

(Start: 1 @39858 has 14 MA's), (2, 39834), (4, 39807), (5, 39783), (6, 39777), (7, 39747),