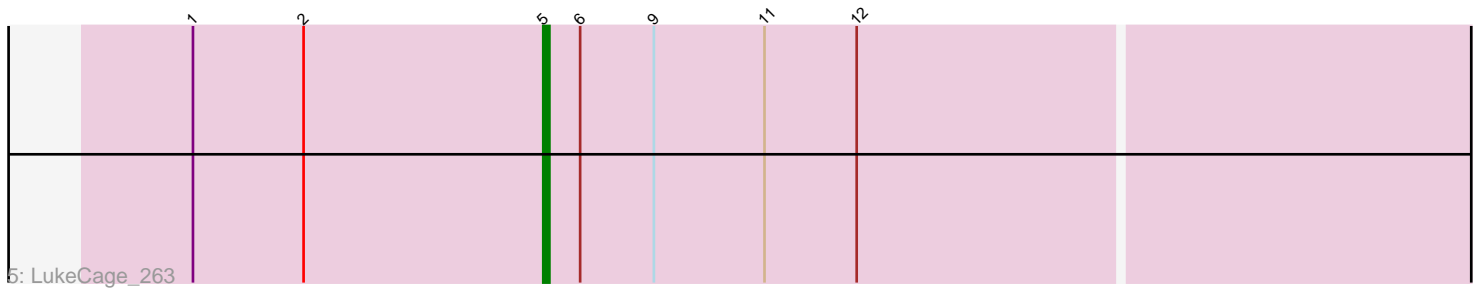
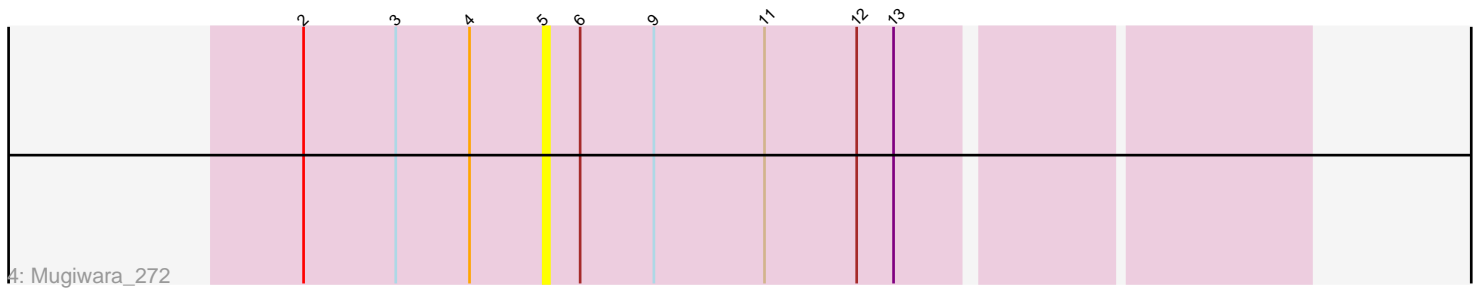
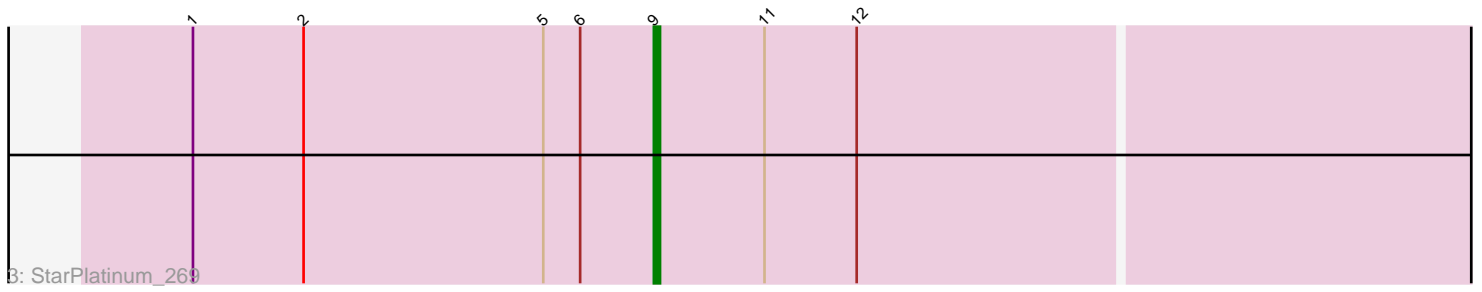
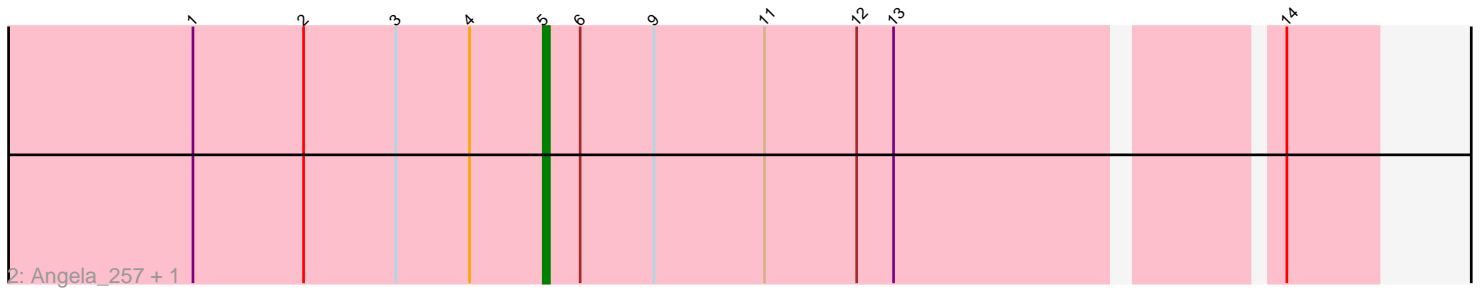
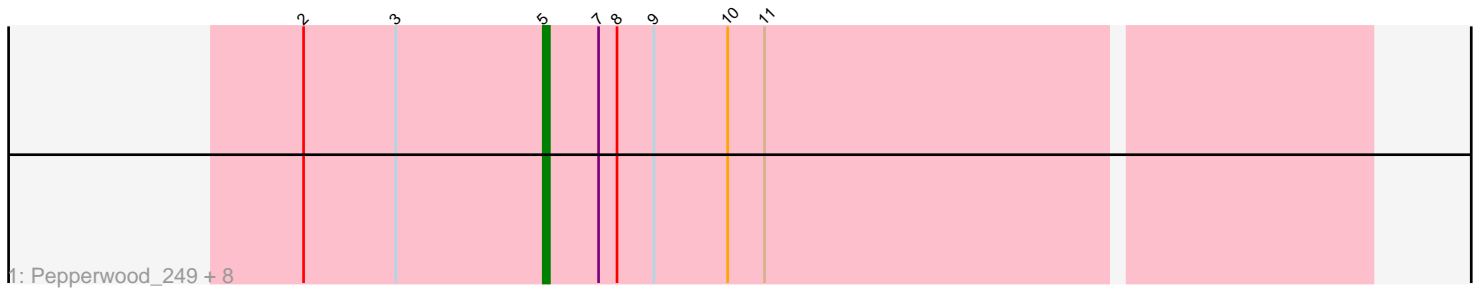


# Pham 188546



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 188546 Report

This analysis was run 11/02/24 on database version 579.

Pham number 188546 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Pepperwood\_249, Cross\_248, BlueOtter\_248, Tribute\_245, HangryHippo\_248, PacManQ\_247, Lululemon\_247, Larnav\_250, Samisti12\_251
- Track 2 : Angela\_257, MulchMansion\_256
- Track 3 : StarPlatinum\_269
- Track 4 : Mugiwara\_272
- Track 5 : LukeCage\_263

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

The start number called the most often in the published annotations is 5, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angela\_257, BlueOtter\_248, Cross\_248, HangryHippo\_248, Larnav\_250, LukeCage\_263, Lululemon\_247, Mugiwara\_272, MulchMansion\_256, PacManQ\_247, Pepperwood\_249, Samisti12\_251, Tribute\_245,

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

- StarPlatinum\_269,

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

- 

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

Start 5:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 13
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Angela\_257 (BE1), BlueOtter\_248 (BE1), Cross\_248 (BE1), HangryHippo\_248 (BE1), Larnav\_250 (BE1), LukeCage\_263 (BE2), Lululemon\_247 (BE1), Mugiwara\_272 (BE2), MulchMansion\_256 (BE1), PacManQ\_247 (BE1), Pepperwood\_249 (BE1), Samisti12\_251 (BE1), Tribute\_245 (BE1),

Start 9:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 7.1% of time when present
- Phage (with cluster) where this start called: StarPlatinum\_269 (BE2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 5 was manually annotated 11 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 5 was manually annotated 1 time for cluster BE2.
- Start number 9 was manually annotated 1 time for cluster BE2.

### **Gene Information:**

Gene: Angela\_257 Start: 121854, Stop: 121982, Start Num: 5

Candidate Starts for Angela\_257:

(1, 121797), (2, 121815), (3, 121830), (4, 121842), (Start: 5 @121854 has 12 MA's), (6, 121860), (Start: 9 @121872 has 1 MA's), (11, 121890), (12, 121905), (13, 121911), (14, 121968),

Gene: BlueOtter\_248 Start: 120523, Stop: 120654, Start Num: 5

Candidate Starts for BlueOtter\_248:

(2, 120484), (3, 120499), (Start: 5 @120523 has 12 MA's), (7, 120532), (8, 120535), (Start: 9 @120541 has 1 MA's), (10, 120553), (11, 120559),

Gene: Cross\_248 Start: 121168, Stop: 121299, Start Num: 5

Candidate Starts for Cross\_248:

(2, 121129), (3, 121144), (Start: 5 @121168 has 12 MA's), (7, 121177), (8, 121180), (Start: 9 @121186 has 1 MA's), (10, 121198), (11, 121204),

Gene: HangryHippo\_248 Start: 120523, Stop: 120654, Start Num: 5

Candidate Starts for HangryHippo\_248:

(2, 120484), (3, 120499), (Start: 5 @120523 has 12 MA's), (7, 120532), (8, 120535), (Start: 9 @120541 has 1 MA's), (10, 120553), (11, 120559),

Gene: Larnav\_250 Start: 121441, Stop: 121572, Start Num: 5

Candidate Starts for Larnav\_250:

(2, 121402), (3, 121417), (Start: 5 @121441 has 12 MA's), (7, 121450), (8, 121453), (Start: 9 @121459 has 1 MA's), (10, 121471), (11, 121477),

Gene: LukeCage\_263 Start: 120379, Stop: 120528, Start Num: 5

Candidate Starts for LukeCage\_263:

(1, 120322), (2, 120340), (Start: 5 @120379 has 12 MA's), (6, 120385), (Start: 9 @120397 has 1 MA's), (11, 120415), (12, 120430),

Gene: Lululemon\_247 Start: 120328, Stop: 120459, Start Num: 5

Candidate Starts for Lululemon\_247:

(2, 120289), (3, 120304), (Start: 5 @120328 has 12 MA's), (7, 120337), (8, 120340), (Start: 9 @120346 has 1 MA's), (10, 120358), (11, 120364),

Gene: Mugiwara\_272 Start: 120861, Stop: 120980, Start Num: 5

Candidate Starts for Mugiwara\_272:

(2, 120822), (3, 120837), (4, 120849), (Start: 5 @120861 has 12 MA's), (6, 120867), (Start: 9 @120879 has 1 MA's), (11, 120897), (12, 120912), (13, 120918),

Gene: MulchMansion\_256 Start: 122428, Stop: 122556, Start Num: 5

Candidate Starts for MulchMansion\_256:

(1, 122371), (2, 122389), (3, 122404), (4, 122416), (Start: 5 @122428 has 12 MA's), (6, 122434), (Start: 9 @122446 has 1 MA's), (11, 122464), (12, 122479), (13, 122485), (14, 122542),

Gene: PacManQ\_247 Start: 120328, Stop: 120459, Start Num: 5

Candidate Starts for PacManQ\_247:

(2, 120289), (3, 120304), (Start: 5 @120328 has 12 MA's), (7, 120337), (8, 120340), (Start: 9 @120346 has 1 MA's), (10, 120358), (11, 120364),

Gene: Pepperwood\_249 Start: 121220, Stop: 121351, Start Num: 5

Candidate Starts for Pepperwood\_249:

(2, 121181), (3, 121196), (Start: 5 @121220 has 12 MA's), (7, 121229), (8, 121232), (Start: 9 @121238 has 1 MA's), (10, 121250), (11, 121256),

Gene: Samisti12\_251 Start: 122477, Stop: 122611, Start Num: 5

Candidate Starts for Samisti12\_251:

(2, 122438), (3, 122453), (Start: 5 @122477 has 12 MA's), (7, 122486), (8, 122489), (Start: 9 @122495 has 1 MA's), (10, 122507), (11, 122513),

Gene: StarPlatinum\_269 Start: 121173, Stop: 121304, Start Num: 9

Candidate Starts for StarPlatinum\_269:

(1, 121098), (2, 121116), (Start: 5 @121155 has 12 MA's), (6, 121161), (Start: 9 @121173 has 1 MA's), (11, 121191), (12, 121206),

Gene: Tribute\_245 Start: 121978, Stop: 122112, Start Num: 5

Candidate Starts for Tribute\_245:

(2, 121939), (3, 121954), (Start: 5 @121978 has 12 MA's), (7, 121987), (8, 121990), (Start: 9 @121996 has 1 MA's), (10, 122008), (11, 122014),