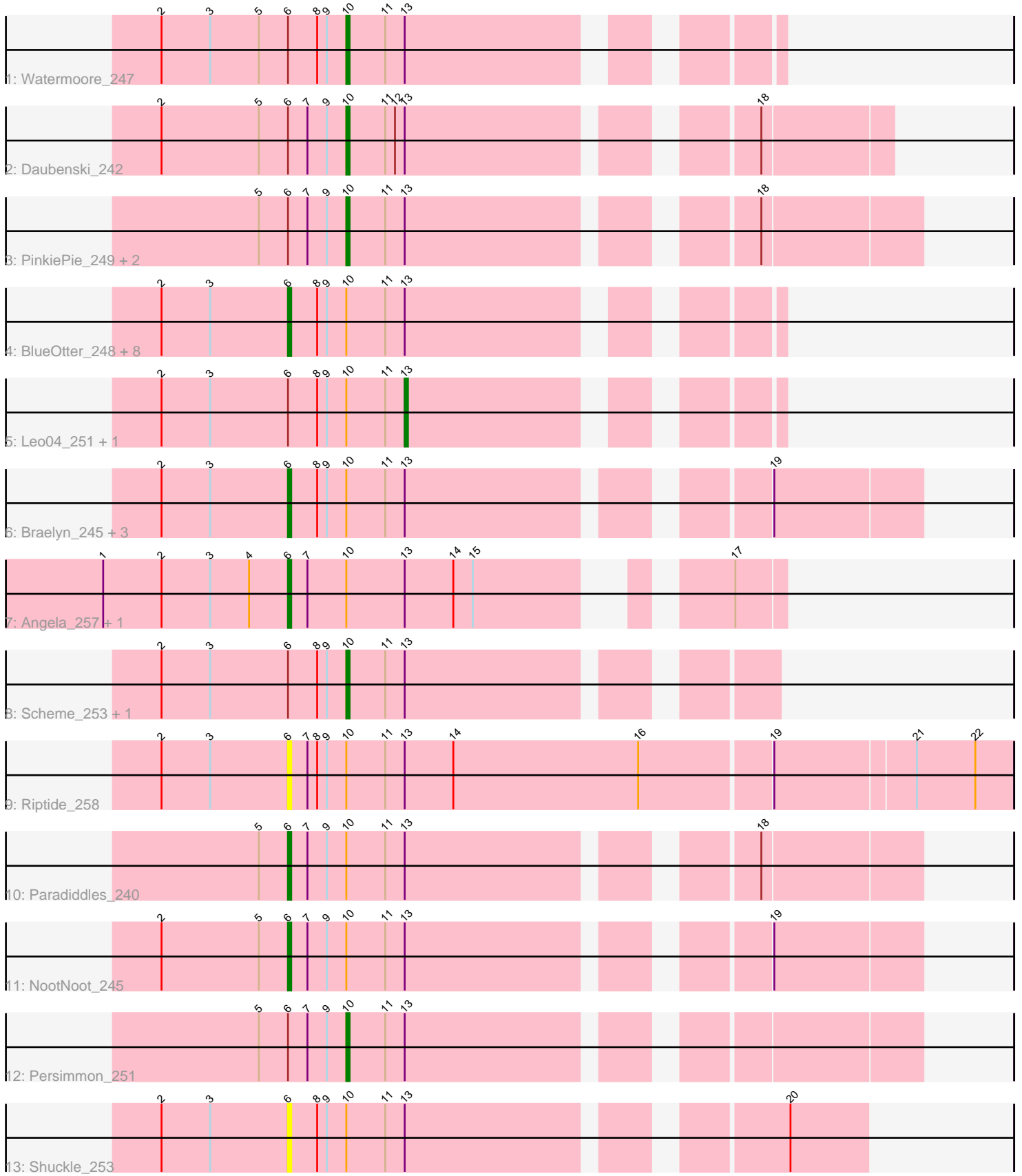


# Pham 214530



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 214530 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214530 has 29 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Watermoore\_247
- Track 2 : Daubenski\_242
- Track 3 : PinkiePie\_249, Squillium\_251, Liandry\_248
- Track 4 : BlueOtter\_248, Samisti12\_251, Pepperwood\_249, Tribute\_245, PacManQ\_247, Cross\_248, HangryHippo\_248, Lululemon\_247, Larnav\_250
- Track 5 : Leo04\_251, Cursive\_254
- Track 6 : Braelyn\_245, WhereRU\_249, Navo\_242, Bartholomune\_249
- Track 7 : Angela\_257, MulchMansion\_256
- Track 8 : Scheme\_253, Sushi23\_250
- Track 9 : Riptide\_258
- Track 10 : Paradiddles\_240
- Track 11 : NootNoot\_245
- Track 12 : Persimmon\_251
- Track 13 : Shuckle\_253

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

The start number called the most often in the published annotations is 6, it was called in 17 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angela\_257, Bartholomune\_249, BlueOtter\_248, Braelyn\_245, Cross\_248, HangryHippo\_248, Larnav\_250, Lululemon\_247, MulchMansion\_256, Navo\_242, NootNoot\_245, PacManQ\_247, Paradiddles\_240, Pepperwood\_249, Riptide\_258, Samisti12\_251, Shuckle\_253, Tribute\_245, WhereRU\_249,

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

- Cursive\_254, Daubenski\_242, Leo04\_251, Liandry\_248, Persimmon\_251, PinkiePie\_249, Scheme\_253, Squillium\_251, Sushi23\_250, Watermoore\_247,

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

- 

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

Start 6:

- Found in 29 of 29 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 26
- Called 65.5% of time when present
- Phage (with cluster) where this start called: Angela\_257 (BE1), Bartholomune\_249 (BE1), BlueOtter\_248 (BE1), Braelyn\_245 (BE1), Cross\_248 (BE1), HangryHippo\_248 (BE1), Larnav\_250 (BE1), Lululemon\_247 (BE1), MulchMansion\_256 (BE1), Navo\_242 (BE1), NootNoot\_245 (BE1), PacManQ\_247 (BE1), Paradiddles\_240 (BE1), Pepperwood\_249 (BE1), Riptide\_258 (BE1), Samisti12\_251 (BE1), Shuckle\_253 (BE1), Tribute\_245 (BE1), WhereRU\_249 (BE1),

Start 10:

- Found in 29 of 29 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 26
- Called 27.6% of time when present
- Phage (with cluster) where this start called: Daubenski\_242 (BE1), Liandry\_248 (BE1), Persimmon\_251 (BE1), PinkiePie\_249 (BE1), Scheme\_253 (BE1), Squillium\_251 (BE1), Sushi23\_250 (BE1), Watermoore\_247 (BE1),

Start 13:

- Found in 29 of 29 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 6.9% of time when present
- Phage (with cluster) where this start called: Cursive\_254 (BE1), Leo04\_251 (BE1),

**Summary by clusters:**

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:

- Start number 6 was manually annotated 17 times for cluster BE1.
- Start number 10 was manually annotated 7 times for cluster BE1.
- Start number 13 was manually annotated 2 times for cluster BE1.

**Gene Information:**

Gene: Angela\_257 Start: 121854, Stop: 121982, Start Num: 6

Candidate Starts for Angela\_257:

(1, 121797), (2, 121815), (3, 121830), (4, 121842), (Start: 6 @121854 has 17 MA's), (7, 121860), (Start: 10 @121872 has 7 MA's), (Start: 13 @121890 has 2 MA's), (14, 121905), (15, 121911), (17, 121968),

Gene: Bartholomune\_249 Start: 120501, Stop: 120677, Start Num: 6

Candidate Starts for Bartholomune\_249:

(2, 120462), (3, 120477), (Start: 6 @120501 has 17 MA's), (8, 120510), (9, 120513), (Start: 10 @120519 has 7 MA's), (11, 120531), (Start: 13 @120537 has 2 MA's), (19, 120633),

Gene: BlueOtter\_248 Start: 120523, Stop: 120654, Start Num: 6

Candidate Starts for BlueOtter\_248:

(2, 120484), (3, 120499), (Start: 6 @120523 has 17 MA's), (8, 120532), (9, 120535), (Start: 10 @120541 has 7 MA's), (11, 120553), (Start: 13 @120559 has 2 MA's),

Gene: Braelyn\_245 Start: 119835, Stop: 120011, Start Num: 6

Candidate Starts for Braelyn\_245:

(2, 119796), (3, 119811), (Start: 6 @119835 has 17 MA's), (8, 119844), (9, 119847), (Start: 10 @119853 has 7 MA's), (11, 119865), (Start: 13 @119871 has 2 MA's), (19, 119967),

Gene: Cross\_248 Start: 121168, Stop: 121299, Start Num: 6

Candidate Starts for Cross\_248:

(2, 121129), (3, 121144), (Start: 6 @121168 has 17 MA's), (8, 121177), (9, 121180), (Start: 10 @121186 has 7 MA's), (11, 121198), (Start: 13 @121204 has 2 MA's),

Gene: Cursive\_254 Start: 121481, Stop: 121576, Start Num: 13

Candidate Starts for Cursive\_254:

(2, 121406), (3, 121421), (Start: 6 @121445 has 17 MA's), (8, 121454), (9, 121457), (Start: 10 @121463 has 7 MA's), (11, 121475), (Start: 13 @121481 has 2 MA's),

Gene: Daubenski\_242 Start: 121832, Stop: 121981, Start Num: 10

Candidate Starts for Daubenski\_242:

(2, 121775), (5, 121805), (Start: 6 @121814 has 17 MA's), (7, 121820), (9, 121826), (Start: 10 @121832 has 7 MA's), (11, 121844), (12, 121847), (Start: 13 @121850 has 2 MA's), (18, 121943),

Gene: HangryHippo\_248 Start: 120523, Stop: 120654, Start Num: 6

Candidate Starts for HangryHippo\_248:

(2, 120484), (3, 120499), (Start: 6 @120523 has 17 MA's), (8, 120532), (9, 120535), (Start: 10 @120541 has 7 MA's), (11, 120553), (Start: 13 @120559 has 2 MA's),

Gene: Larnav\_250 Start: 121441, Stop: 121572, Start Num: 6

Candidate Starts for Larnav\_250:

(2, 121402), (3, 121417), (Start: 6 @121441 has 17 MA's), (8, 121450), (9, 121453), (Start: 10 @121459 has 7 MA's), (11, 121471), (Start: 13 @121477 has 2 MA's),

Gene: Leo04\_251 Start: 121590, Stop: 121685, Start Num: 13

Candidate Starts for Leo04\_251:

(2, 121515), (3, 121530), (Start: 6 @121554 has 17 MA's), (8, 121563), (9, 121566), (Start: 10 @121572 has 7 MA's), (11, 121584), (Start: 13 @121590 has 2 MA's),

Gene: Liandry\_248 Start: 120940, Stop: 121098, Start Num: 10

Candidate Starts for Liandry\_248:

(5, 120913), (Start: 6 @120922 has 17 MA's), (7, 120928), (9, 120934), (Start: 10 @120940 has 7 MA's), (11, 120952), (Start: 13 @120958 has 2 MA's), (18, 121051),

Gene: Lululemon\_247 Start: 120328, Stop: 120459, Start Num: 6

Candidate Starts for Lululemon\_247:

(2, 120289), (3, 120304), (Start: 6 @120328 has 17 MA's), (8, 120337), (9, 120340), (Start: 10 @120346 has 7 MA's), (11, 120358), (Start: 13 @120364 has 2 MA's),

Gene: MulchMansion\_256 Start: 122428, Stop: 122556, Start Num: 6

Candidate Starts for MulchMansion\_256:

(1, 122371), (2, 122389), (3, 122404), (4, 122416), (Start: 6 @122428 has 17 MA's), (7, 122434), (Start: 10 @122446 has 7 MA's), (Start: 13 @122464 has 2 MA's), (14, 122479), (15, 122485), (17, 122542),

Gene: Navo\_242 Start: 119039, Stop: 119215, Start Num: 6

Candidate Starts for Navo\_242:

(2, 119000), (3, 119015), (Start: 6 @119039 has 17 MA's), (8, 119048), (9, 119051), (Start: 10 @119057 has 7 MA's), (11, 119069), (Start: 13 @119075 has 2 MA's), (19, 119171),

Gene: NootNoot\_245 Start: 119734, Stop: 119910, Start Num: 6

Candidate Starts for NootNoot\_245:

(2, 119695), (5, 119725), (Start: 6 @119734 has 17 MA's), (7, 119740), (9, 119746), (Start: 10 @119752 has 7 MA's), (11, 119764), (Start: 13 @119770 has 2 MA's), (19, 119866),

Gene: PacManQ\_247 Start: 120328, Stop: 120459, Start Num: 6

Candidate Starts for PacManQ\_247:

(2, 120289), (3, 120304), (Start: 6 @120328 has 17 MA's), (8, 120337), (9, 120340), (Start: 10 @120346 has 7 MA's), (11, 120358), (Start: 13 @120364 has 2 MA's),

Gene: Paradiddles\_240 Start: 122109, Stop: 122285, Start Num: 6

Candidate Starts for Paradiddles\_240:

(5, 122100), (Start: 6 @122109 has 17 MA's), (7, 122115), (9, 122121), (Start: 10 @122127 has 7 MA's), (11, 122139), (Start: 13 @122145 has 2 MA's), (18, 122238),

Gene: Pepperwood\_249 Start: 121220, Stop: 121351, Start Num: 6

Candidate Starts for Pepperwood\_249:

(2, 121181), (3, 121196), (Start: 6 @121220 has 17 MA's), (8, 121229), (9, 121232), (Start: 10 @121238 has 7 MA's), (11, 121250), (Start: 13 @121256 has 2 MA's),

Gene: Persimmon\_251 Start: 120254, Stop: 120412, Start Num: 10

Candidate Starts for Persimmon\_251:

(5, 120227), (Start: 6 @120236 has 17 MA's), (7, 120242), (9, 120248), (Start: 10 @120254 has 7 MA's), (11, 120266), (Start: 13 @120272 has 2 MA's),

Gene: PinkiePie\_249 Start: 120940, Stop: 121098, Start Num: 10

Candidate Starts for PinkiePie\_249:

(5, 120913), (Start: 6 @120922 has 17 MA's), (7, 120928), (9, 120934), (Start: 10 @120940 has 7 MA's), (11, 120952), (Start: 13 @120958 has 2 MA's), (18, 121051),

Gene: Riptide\_258 Start: 120918, Stop: 121136, Start Num: 6

Candidate Starts for Riptide\_258:

(2, 120879), (3, 120894), (Start: 6 @120918 has 17 MA's), (7, 120924), (8, 120927), (9, 120930), (Start: 10 @120936 has 7 MA's), (11, 120948), (Start: 13 @120954 has 2 MA's), (14, 120969), (16, 121026), (19, 121065), (21, 121107), (22, 121125),

Gene: Samisti12\_251 Start: 122477, Stop: 122611, Start Num: 6

Candidate Starts for Samisti12\_251:

(2, 122438), (3, 122453), (Start: 6 @122477 has 17 MA's), (8, 122486), (9, 122489), (Start: 10 @122495 has 7 MA's), (11, 122507), (Start: 13 @122513 has 2 MA's),

Gene: Scheme\_253 Start: 122647, Stop: 122763, Start Num: 10

Candidate Starts for Scheme\_253:

(2, 122590), (3, 122605), (Start: 6 @122629 has 17 MA's), (8, 122638), (9, 122641), (Start: 10 @122647 has 7 MA's), (11, 122659), (Start: 13 @122665 has 2 MA's),

Gene: Shuckle\_253 Start: 122102, Stop: 122263, Start Num: 6

Candidate Starts for Shuckle\_253:

(2, 122063), (3, 122078), (Start: 6 @122102 has 17 MA's), (8, 122111), (9, 122114), (Start: 10 @122120 has 7 MA's), (11, 122132), (Start: 13 @122138 has 2 MA's), (20, 122240),

Gene: Squillium\_251 Start: 120942, Stop: 121115, Start Num: 10

Candidate Starts for Squillium\_251:

(5, 120915), (Start: 6 @120924 has 17 MA's), (7, 120930), (9, 120936), (Start: 10 @120942 has 7 MA's), (11, 120954), (Start: 13 @120960 has 2 MA's), (18, 121053),

Gene: Sushi23\_250 Start: 122296, Stop: 122409, Start Num: 10

Candidate Starts for Sushi23\_250:

(2, 122239), (3, 122254), (Start: 6 @122278 has 17 MA's), (8, 122287), (9, 122290), (Start: 10 @122296 has 7 MA's), (11, 122308), (Start: 13 @122314 has 2 MA's),

Gene: Tribute\_245 Start: 121978, Stop: 122112, Start Num: 6

Candidate Starts for Tribute\_245:

(2, 121939), (3, 121954), (Start: 6 @121978 has 17 MA's), (8, 121987), (9, 121990), (Start: 10 @121996 has 7 MA's), (11, 122008), (Start: 13 @122014 has 2 MA's),

Gene: Watermoore\_247 Start: 122050, Stop: 122163, Start Num: 10

Candidate Starts for Watermoore\_247:

(2, 121993), (3, 122008), (5, 122023), (Start: 6 @122032 has 17 MA's), (8, 122041), (9, 122044), (Start: 10 @122050 has 7 MA's), (11, 122062), (Start: 13 @122068 has 2 MA's),

Gene: WhereRU\_249 Start: 120570, Stop: 120746, Start Num: 6

Candidate Starts for WhereRU\_249:

(2, 120531), (3, 120546), (Start: 6 @120570 has 17 MA's), (8, 120579), (9, 120582), (Start: 10 @120588 has 7 MA's), (11, 120600), (Start: 13 @120606 has 2 MA's), (19, 120702),