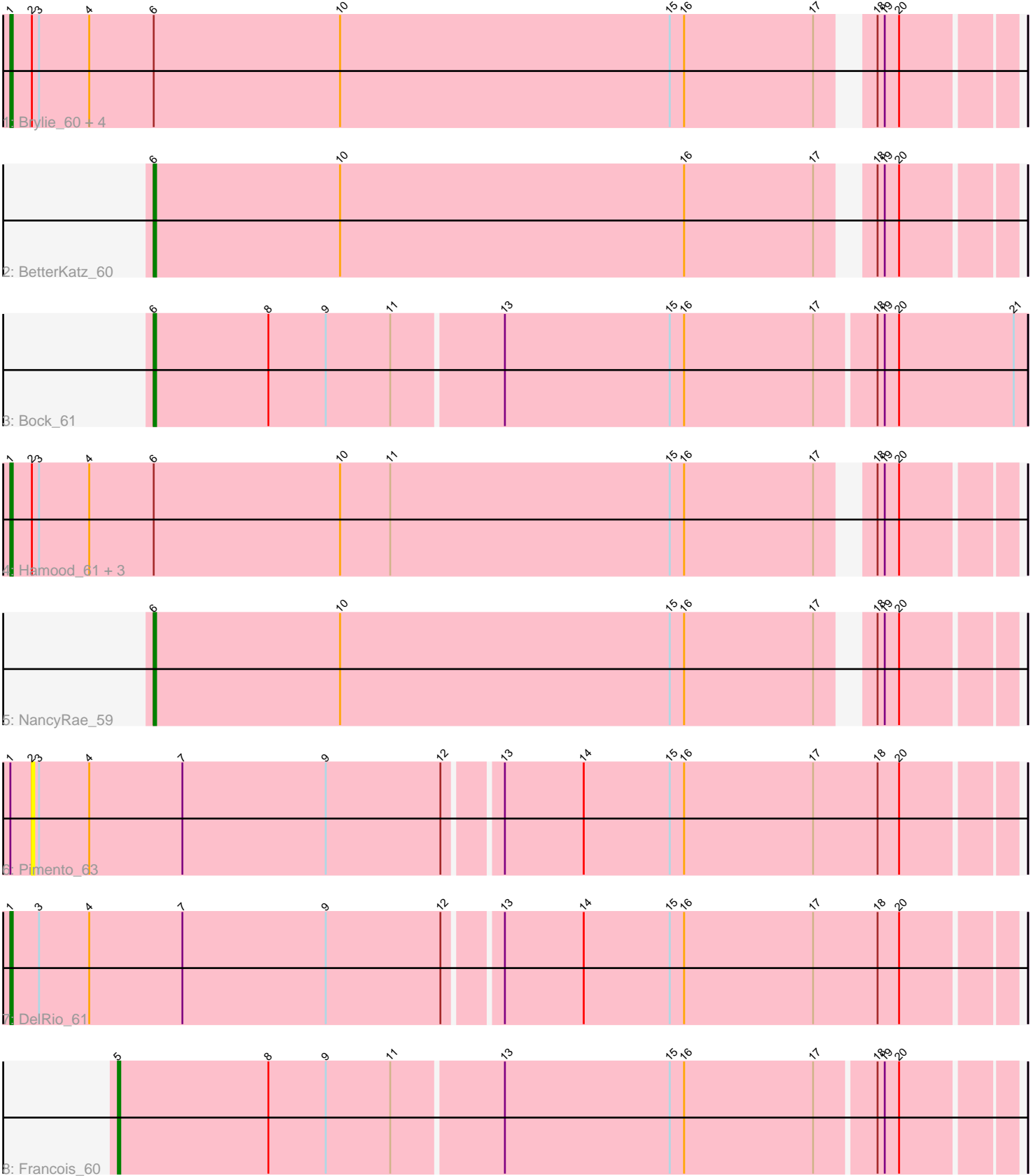


Pham 138312



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 138312 Report

This analysis was run 04/28/24 on database version 559.

Pham number 138312 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Brylie\_60, Parada\_60, Mulch\_60, WheatThin\_59, Nadeem\_60
- Track 2 : BetterKatz\_60
- Track 3 : Bock\_61
- Track 4 : Hamood\_61, Chop\_61, Ayotoya\_61, GrandSlam\_61
- Track 5 : NancyRae\_59
- Track 6 : Pimento\_63
- Track 7 : DelRio\_61
- Track 8 : Francois\_60

### ***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 9 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya\_61, Brylie\_60, Chop\_61, DelRio\_61, GrandSlam\_61, Hamood\_61, Mulch\_60, Nadeem\_60, Parada\_60, WheatThin\_59,

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

- Pimento\_63,

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

- BetterKatz\_60, Bock\_61, Francois\_60, NancyRae\_59,

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

Start 1:

- Found in 11 of 15 ( 73.3% ) of genes in pham
- Manual Annotations of this start: 9 of 13
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Ayotoya\_61 (DI), Brylie\_60 (DI), Chop\_61 (DI), DelRio\_61 (DI), GrandSlam\_61 (DI), Hamood\_61 (DI), Mulch\_60 (DI), Nadeem\_60 (DI), Parada\_60 (DI), WheatThin\_59 (DI),

Start 2:

- Found in 10 of 15 ( 66.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Pimento\_63 (DI),

Start 5:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Francois\_60 (DI),

Start 6:

- Found in 12 of 15 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 25.0% of time when present
- Phage (with cluster) where this start called: BetterKatz\_60 (DI), Bock\_61 (DI), NancyRae\_59 (DI),

**Summary by clusters:**

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:

- Start number 1 was manually annotated 9 times for cluster DI.
- Start number 5 was manually annotated 1 time for cluster DI.
- Start number 6 was manually annotated 3 times for cluster DI.

**Gene Information:**

Gene: Ayotoya\_61 Start: 41093, Stop: 41497, Start Num: 1

Candidate Starts for Ayotoya\_61:

(Start: 1 @41093 has 9 MA's), (2, 41102), (3, 41105), (4, 41126), (Start: 6 @41153 has 3 MA's), (10, 41231), (11, 41252), (15, 41369), (16, 41375), (17, 41429), (18, 41444), (19, 41447), (20, 41453),

Gene: BetterKatz\_60 Start: 40307, Stop: 40651, Start Num: 6

Candidate Starts for BetterKatz\_60:

(Start: 6 @40307 has 3 MA's), (10, 40385), (16, 40529), (17, 40583), (18, 40598), (19, 40601), (20, 40607),

Gene: Bock\_61 Start: 40336, Stop: 40695, Start Num: 6

Candidate Starts for Bock\_61:

(Start: 6 @40336 has 3 MA's), (8, 40384), (9, 40408), (11, 40435), (13, 40480), (15, 40549), (16, 40555), (17, 40609), (18, 40633), (19, 40636), (20, 40642), (21, 40690),

Gene: Brylie\_60 Start: 40073, Stop: 40477, Start Num: 1

Candidate Starts for Brylie\_60:

(Start: 1 @40073 has 9 MA's), (2, 40082), (3, 40085), (4, 40106), (Start: 6 @40133 has 3 MA's), (10, 40211), (15, 40349), (16, 40355), (17, 40409), (18, 40424), (19, 40427), (20, 40433),

Gene: Chop\_61 Start: 40844, Stop: 41248, Start Num: 1

Candidate Starts for Chop\_61:

(Start: 1 @40844 has 9 MA's), (2, 40853), (3, 40856), (4, 40877), (Start: 6 @40904 has 3 MA's), (10, 40982), (11, 41003), (15, 41120), (16, 41126), (17, 41180), (18, 41195), (19, 41198), (20, 41204),

Gene: DelRio\_61 Start: 41254, Stop: 41664, Start Num: 1

Candidate Starts for DelRio\_61:

(Start: 1 @41254 has 9 MA's), (3, 41266), (4, 41287), (7, 41326), (9, 41386), (12, 41434), (13, 41455), (14, 41488), (15, 41524), (16, 41530), (17, 41584), (18, 41611), (20, 41620),

Gene: Francois\_60 Start: 40340, Stop: 40705, Start Num: 5

Candidate Starts for Francois\_60:

(Start: 5 @40340 has 1 MA's), (8, 40403), (9, 40427), (11, 40454), (13, 40499), (15, 40568), (16, 40574), (17, 40628), (18, 40652), (19, 40655), (20, 40661),

Gene: GrandSlam\_61 Start: 40844, Stop: 41248, Start Num: 1

Candidate Starts for GrandSlam\_61:

(Start: 1 @40844 has 9 MA's), (2, 40853), (3, 40856), (4, 40877), (Start: 6 @40904 has 3 MA's), (10, 40982), (11, 41003), (15, 41120), (16, 41126), (17, 41180), (18, 41195), (19, 41198), (20, 41204),

Gene: Hamood\_61 Start: 40844, Stop: 41248, Start Num: 1

Candidate Starts for Hamood\_61:

(Start: 1 @40844 has 9 MA's), (2, 40853), (3, 40856), (4, 40877), (Start: 6 @40904 has 3 MA's), (10, 40982), (11, 41003), (15, 41120), (16, 41126), (17, 41180), (18, 41195), (19, 41198), (20, 41204),

Gene: Mulch\_60 Start: 40073, Stop: 40477, Start Num: 1

Candidate Starts for Mulch\_60:

(Start: 1 @40073 has 9 MA's), (2, 40082), (3, 40085), (4, 40106), (Start: 6 @40133 has 3 MA's), (10, 40211), (15, 40349), (16, 40355), (17, 40409), (18, 40424), (19, 40427), (20, 40433),

Gene: Nadeem\_60 Start: 40061, Stop: 40465, Start Num: 1

Candidate Starts for Nadeem\_60:

(Start: 1 @40061 has 9 MA's), (2, 40070), (3, 40073), (4, 40094), (Start: 6 @40121 has 3 MA's), (10, 40199), (15, 40337), (16, 40343), (17, 40397), (18, 40412), (19, 40415), (20, 40421),

Gene: NancyRae\_59 Start: 40071, Stop: 40415, Start Num: 6

Candidate Starts for NancyRae\_59:

(Start: 6 @40071 has 3 MA's), (10, 40149), (15, 40287), (16, 40293), (17, 40347), (18, 40362), (19, 40365), (20, 40371),

Gene: Parada\_60 Start: 40073, Stop: 40477, Start Num: 1

Candidate Starts for Parada\_60:

(Start: 1 @40073 has 9 MA's), (2, 40082), (3, 40085), (4, 40106), (Start: 6 @40133 has 3 MA's), (10, 40211), (15, 40349), (16, 40355), (17, 40409), (18, 40424), (19, 40427), (20, 40433),

Gene: Pimento\_63 Start: 39992, Stop: 40393, Start Num: 2

Candidate Starts for Pimento\_63:

(Start: 1 @39983 has 9 MA's), (2, 39992), (3, 39995), (4, 40016), (7, 40055), (9, 40115), (12, 40163), (13, 40184), (14, 40217), (15, 40253), (16, 40259), (17, 40313), (18, 40340), (20, 40349),

Gene: WheatThin\_59 Start: 40061, Stop: 40465, Start Num: 1

Candidate Starts for WheatThin\_59:

(Start: 1 @40061 has 9 MA's), (2, 40070), (3, 40073), (4, 40094), (Start: 6 @40121 has 3 MA's), (10, 40199), (15, 40337), (16, 40343), (17, 40397), (18, 40412), (19, 40415), (20, 40421),

