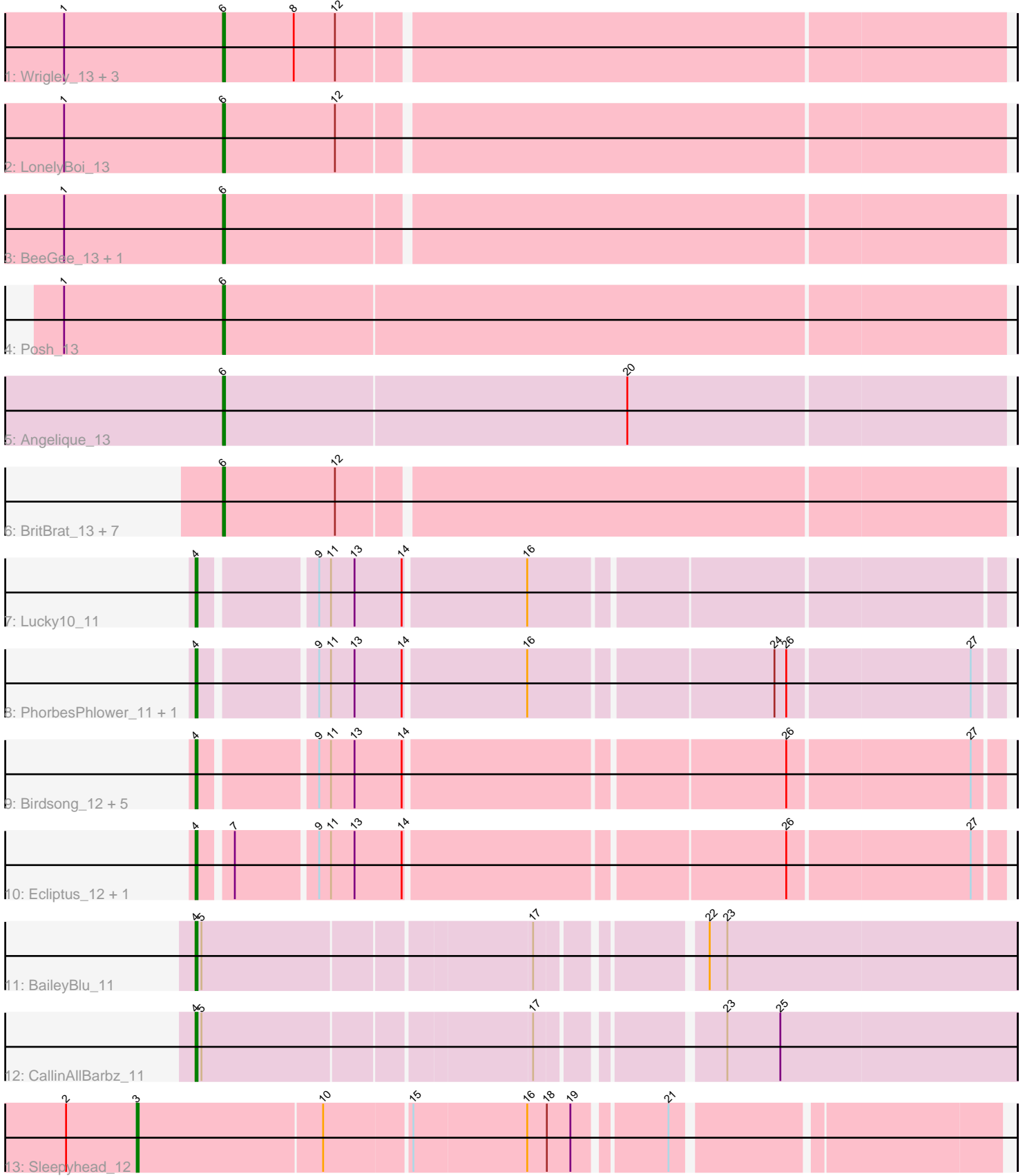


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 194238 Report

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

Pham number 194238 has 31 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Wrigley\_13, Pytheas\_13, Confidence\_13, Jablanski\_13
- Track 2 : LonelyBoi\_13
- Track 3 : BeeGee\_13, Cashline\_13
- Track 4 : Posh\_13
- Track 5 : Angeliq\_13
- Track 6 : BritBrat\_13, EnalisNailo\_13, Lilas\_13, Bradissa\_13, Floral\_13, Marteena\_13, EMSquaredA\_13, Pollux\_13
- Track 7 : Lucky10\_11
- Track 8 : PhorbesPhlower\_11, Morkie\_11
- Track 9 : Birdsong\_12, Crater\_12, Apricot\_12, BearBQ\_12, Kuwabara\_12, MortyNRick\_12
- Track 10 : Ecliptus\_12, ODay\_12
- Track 11 : BaileyBlu\_11
- Track 12 : CallinAllBarbz\_11
- Track 13 : Sleepyhead\_12

### ***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 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angeliq\_13, BeeGee\_13, Bradissa\_13, BritBrat\_13, Cashline\_13, Confidence\_13, EMSquaredA\_13, EnalisNailo\_13, Floral\_13, Jablanski\_13, Lilas\_13, LonelyBoi\_13, Marteena\_13, Pollux\_13, Posh\_13, Pytheas\_13, Wrigley\_13,

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

- 

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

- Apricot\_12, BaileyBlu\_11, BearBQ\_12, Birdsong\_12, CallinAllBarbz\_11, Crater\_12, Ecliptus\_12, Kuwabara\_12, Lucky10\_11, Morkie\_11, MortyNRick\_12, ODay\_12, PhorbesPhlower\_11, Sleepyhead\_12,

## Summary by start number:

### Start 3:

- Found in 1 of 31 ( 3.2% ) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sleepyhead\_12 (singleton),

### Start 4:

- Found in 13 of 31 ( 41.9% ) of genes in pham
- Manual Annotations of this start: 12 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot\_12 (DN3), BaileyBlu\_11 (FP), BearBQ\_12 (DN), Birdsong\_12 (DN), CallinAllBarbz\_11 (FP), Crater\_12 (DN3), Ecliptus\_12 (DN), Kuwabara\_12 (DN4), Lucky10\_11 (DH), Morkie\_11 (DH), MortyNRick\_12 (DN), ODay\_12 (DN), PhorbesPhlower\_11 (DH),

### Start 6:

- Found in 17 of 31 ( 54.8% ) of genes in pham
- Manual Annotations of this start: 17 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angelique\_13 (CY1), BeeGee\_13 (CY), Bradissa\_13 (CY1), BritBrat\_13 (CY2), Cashline\_13 (CY), Confidence\_13 (CY1), EMSquaredA\_13 (CY1), EnalisNailo\_13 (CY1), Floral\_13 (CY1), Jablanski\_13 (CY), Lilas\_13 (CY1), LonelyBoi\_13 (CY), Marteena\_13 (CY1), Pollux\_13 (CY1), Posh\_13 (CY), Pytheas\_13 (CY), Wrigley\_13 (CY),

## Summary by clusters:

There are 9 clusters represented in this pham: DN, CY2, CY1, DH, singleton, FP, DN4, CY, DN3,

### Info for manual annotations of cluster CY:

- Start number 6 was manually annotated 7 times for cluster CY.

### Info for manual annotations of cluster CY1:

- Start number 6 was manually annotated 9 times for cluster CY1.

### Info for manual annotations of cluster CY2:

- Start number 6 was manually annotated 1 time for cluster CY2.

### Info for manual annotations of cluster DH:

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

### Info for manual annotations of cluster DN:

- Start number 4 was manually annotated 4 times for cluster DN.

### Info for manual annotations of cluster DN3:

- Start number 4 was manually annotated 2 times for cluster DN3.

### Info for manual annotations of cluster DN4:

- Start number 4 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster FP:

•Start number 4 was manually annotated 2 times for cluster FP.

**Gene Information:**

Gene: Angelique\_13 Start: 8261, Stop: 8653, Start Num: 6

Candidate Starts for Angelique\_13:

(Start: 6 @8261 has 17 MA's), (20, 8465),

Gene: Apricot\_12 Start: 7390, Stop: 7773, Start Num: 4

Candidate Starts for Apricot\_12:

(Start: 4 @7390 has 12 MA's), (9, 7444), (11, 7450), (13, 7462), (14, 7486), (26, 7669), (27, 7759),

Gene: BaileyBlu\_11 Start: 6789, Stop: 7178, Start Num: 4

Candidate Starts for BaileyBlu\_11:

(Start: 4 @6789 has 12 MA's), (5, 6792), (17, 6951), (22, 7023), (23, 7032),

Gene: BearBQ\_12 Start: 7390, Stop: 7773, Start Num: 4

Candidate Starts for BearBQ\_12:

(Start: 4 @7390 has 12 MA's), (9, 7444), (11, 7450), (13, 7462), (14, 7486), (26, 7669), (27, 7759),

Gene: BeeGee\_13 Start: 8263, Stop: 8649, Start Num: 6

Candidate Starts for BeeGee\_13:

(1, 8182), (Start: 6 @8263 has 17 MA's),

Gene: Birdsong\_12 Start: 7390, Stop: 7773, Start Num: 4

Candidate Starts for Birdsong\_12:

(Start: 4 @7390 has 12 MA's), (9, 7444), (11, 7450), (13, 7462), (14, 7486), (26, 7669), (27, 7759),

Gene: Bradissa\_13 Start: 8267, Stop: 8653, Start Num: 6

Candidate Starts for Bradissa\_13:

(Start: 6 @8267 has 17 MA's), (12, 8324),

Gene: BritBrat\_13 Start: 8269, Stop: 8655, Start Num: 6

Candidate Starts for BritBrat\_13:

(Start: 6 @8269 has 17 MA's), (12, 8326),

Gene: CallinAllBarbz\_11 Start: 6799, Stop: 7188, Start Num: 4

Candidate Starts for CallinAllBarbz\_11:

(Start: 4 @6799 has 12 MA's), (5, 6802), (17, 6961), (23, 7042), (25, 7069),

Gene: Cashline\_13 Start: 8116, Stop: 8508, Start Num: 6

Candidate Starts for Cashline\_13:

(1, 8035), (Start: 6 @8116 has 17 MA's),

Gene: Confidence\_13 Start: 8263, Stop: 8649, Start Num: 6

Candidate Starts for Confidence\_13:

(1, 8182), (Start: 6 @8263 has 17 MA's), (8, 8299), (12, 8320),

Gene: Crater\_12 Start: 7390, Stop: 7773, Start Num: 4

Candidate Starts for Crater\_12:

(Start: 4 @7390 has 12 MA's), (9, 7444), (11, 7450), (13, 7462), (14, 7486), (26, 7669), (27, 7759),

Gene: EMSquaredA\_13 Start: 8269, Stop: 8655, Start Num: 6

Candidate Starts for EMSquaredA\_13:

(Start: 6 @8269 has 17 MA's), (12, 8326),

Gene: Ecliptus\_12 Start: 7118, Stop: 7501, Start Num: 4

Candidate Starts for Ecliptus\_12:

(Start: 4 @7118 has 12 MA's), (7, 7133), (9, 7172), (11, 7178), (13, 7190), (14, 7214), (26, 7397), (27, 7487),

Gene: EnalisNailo\_13 Start: 8269, Stop: 8655, Start Num: 6

Candidate Starts for EnalisNailo\_13:

(Start: 6 @8269 has 17 MA's), (12, 8326),

Gene: Floral\_13 Start: 8269, Stop: 8655, Start Num: 6

Candidate Starts for Floral\_13:

(Start: 6 @8269 has 17 MA's), (12, 8326),

Gene: Jablanski\_13 Start: 8116, Stop: 8502, Start Num: 6

Candidate Starts for Jablanski\_13:

(1, 8035), (Start: 6 @8116 has 17 MA's), (8, 8152), (12, 8173),

Gene: Kuwabara\_12 Start: 7390, Stop: 7773, Start Num: 4

Candidate Starts for Kuwabara\_12:

(Start: 4 @7390 has 12 MA's), (9, 7444), (11, 7450), (13, 7462), (14, 7486), (26, 7669), (27, 7759),

Gene: Lilas\_13 Start: 8269, Stop: 8655, Start Num: 6

Candidate Starts for Lilas\_13:

(Start: 6 @8269 has 17 MA's), (12, 8326),

Gene: LonelyBoi\_13 Start: 8116, Stop: 8502, Start Num: 6

Candidate Starts for LonelyBoi\_13:

(1, 8035), (Start: 6 @8116 has 17 MA's), (12, 8173),

Gene: Lucky10\_11 Start: 6599, Stop: 6982, Start Num: 4

Candidate Starts for Lucky10\_11:

(Start: 4 @6599 has 12 MA's), (9, 6653), (11, 6659), (13, 6671), (14, 6695), (16, 6755),

Gene: Marteena\_13 Start: 8269, Stop: 8655, Start Num: 6

Candidate Starts for Marteena\_13:

(Start: 6 @8269 has 17 MA's), (12, 8326),

Gene: Morkie\_11 Start: 6561, Stop: 6944, Start Num: 4

Candidate Starts for Morkie\_11:

(Start: 4 @6561 has 12 MA's), (9, 6615), (11, 6621), (13, 6633), (14, 6657), (16, 6717), (24, 6834), (26, 6840), (27, 6930),

Gene: MortyNRick\_12 Start: 7390, Stop: 7773, Start Num: 4

Candidate Starts for MortyNRick\_12:

(Start: 4 @7390 has 12 MA's), (9, 7444), (11, 7450), (13, 7462), (14, 7486), (26, 7669), (27, 7759),

Gene: ODay\_12 Start: 7116, Stop: 7499, Start Num: 4

Candidate Starts for ODay\_12:

(Start: 4 @7116 has 12 MA's), (7, 7131), (9, 7170), (11, 7176), (13, 7188), (14, 7212), (26, 7395), (27, 7485),

Gene: PhorbesPhlower\_11 Start: 6561, Stop: 6944, Start Num: 4

Candidate Starts for PhorbesPhlower\_11:

(Start: 4 @6561 has 12 MA's), (9, 6615), (11, 6621), (13, 6633), (14, 6657), (16, 6717), (24, 6834), (26, 6840), (27, 6930),

Gene: Pollux\_13 Start: 8269, Stop: 8655, Start Num: 6

Candidate Starts for Pollux\_13:

(Start: 6 @8269 has 17 MA's), (12, 8326),

Gene: Posh\_13 Start: 8263, Stop: 8655, Start Num: 6

Candidate Starts for Posh\_13:

(1, 8182), (Start: 6 @8263 has 17 MA's),

Gene: Pytheas\_13 Start: 8116, Stop: 8502, Start Num: 6

Candidate Starts for Pytheas\_13:

(1, 8035), (Start: 6 @8116 has 17 MA's), (8, 8152), (12, 8173),

Gene: Sleepyhead\_12 Start: 7869, Stop: 8279, Start Num: 3

Candidate Starts for Sleepyhead\_12:

(2, 7833), (Start: 3 @7869 has 1 MA's), (10, 7962), (15, 8004), (16, 8061), (18, 8070), (19, 8082), (21, 8124),

Gene: Wrigley\_13 Start: 8113, Stop: 8499, Start Num: 6

Candidate Starts for Wrigley\_13:

(1, 8032), (Start: 6 @8113 has 17 MA's), (8, 8149), (12, 8170),