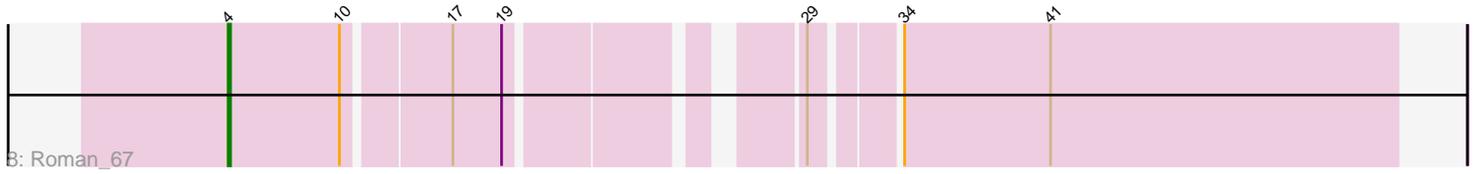
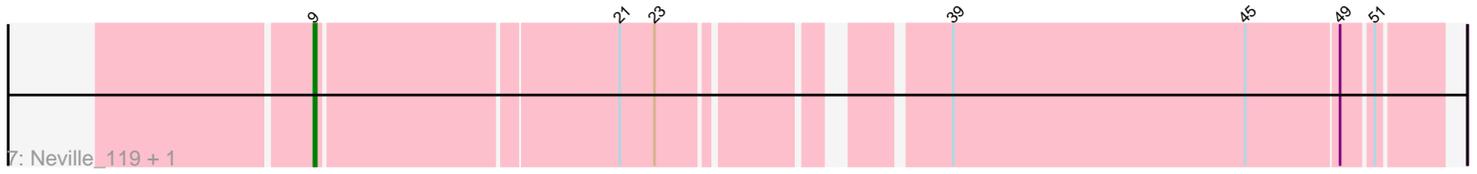
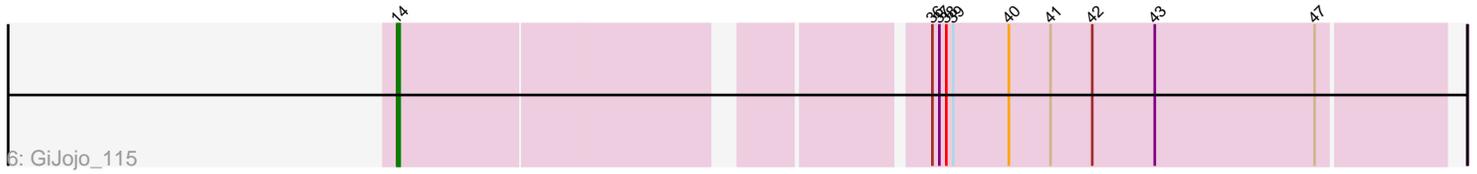
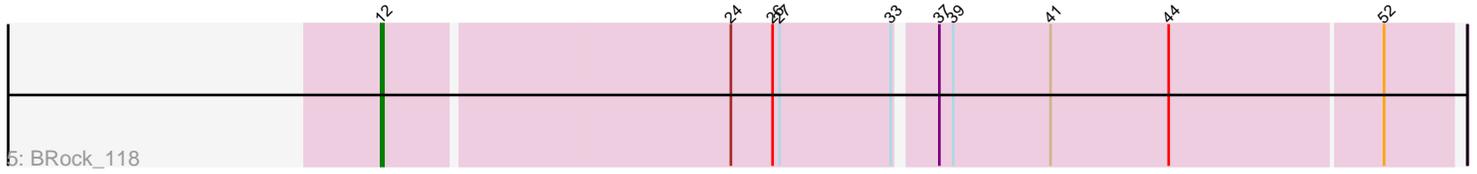
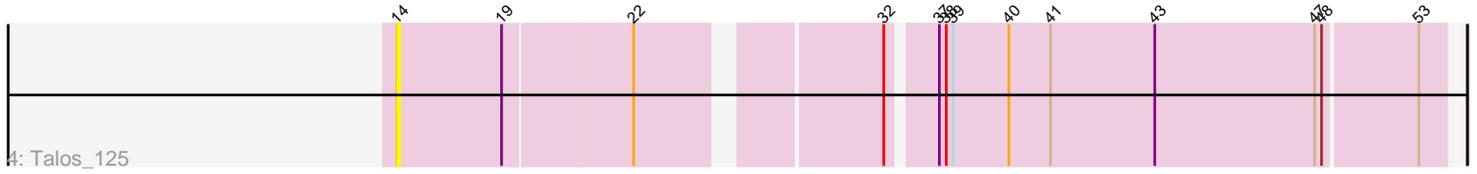
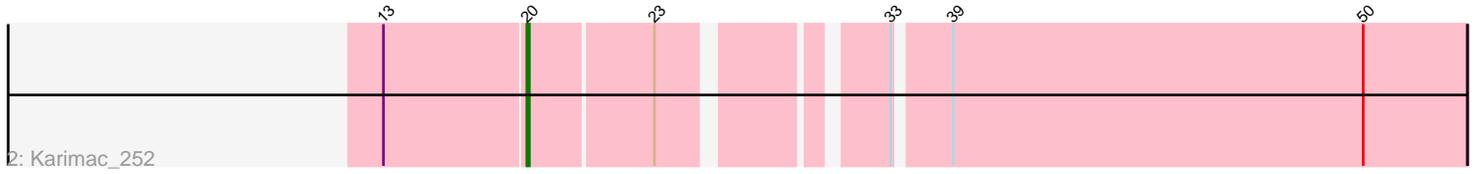
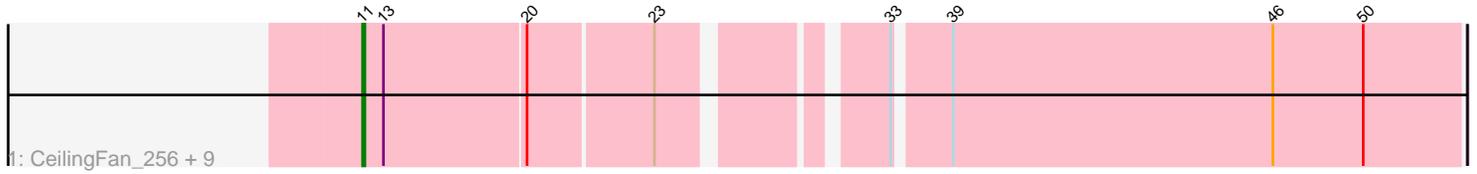


# Pham 221812



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 221812 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221812 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : CeilingFan\_256, Rikishi\_260, TomSawyer\_256, KentuckyRacer\_258, Enygma\_258, JimJam\_259, Spilled\_259, Quaran19\_252, Gibbi\_260, Wipeout\_242
- Track 2 : Karimac\_252
- Track 3 : GiJojo\_172
- Track 4 : Talos\_125
- Track 5 : BRock\_118
- Track 6 : GiJojo\_115
- Track 7 : Neville\_119, Trax\_120
- Track 8 : Roman\_67
- Track 9 : Cece\_187

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

The start number called the most often in the published annotations is 11, it was called in 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CeilingFan\_256, Enygma\_258, Gibbi\_260, JimJam\_259, KentuckyRacer\_258, Quaran19\_252, Rikishi\_260, Spilled\_259, TomSawyer\_256, Wipeout\_242,

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

- 

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

- BRock\_118, Cece\_187, GiJojo\_115, GiJojo\_172, Karimac\_252, Neville\_119, Roman\_67, Talos\_125, Trax\_120,

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

Start 3:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GiJojo\_172 (BS),

Start 4:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Roman\_67 (ED1),

Start 7:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece\_187 (GD3),

Start 9:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Neville\_119 (DU2), Trax\_120 (DU2),

Start 11:

- Found in 10 of 19 ( 52.6% ) of genes in pham
- Manual Annotations of this start: 8 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CeilingFan\_256 (BE2), Enyigma\_258 (BE2), Gibbi\_260 (BE2), JimJam\_259 (BE2), KentuckyRacer\_258 (BE2), Quaran19\_252 (BE2), Rikishi\_260 (BE2), Spilled\_259 (BE2), TomSawyer\_256 (BE2), Wipeout\_242 (BE2),

Start 12:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BRock\_118 (BS),

Start 14:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GiJojo\_115 (BS), Talos\_125 (BS),

Start 20:

- Found in 12 of 19 ( 63.2% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Karimac\_252 (BE2),

**Summary by clusters:**

There are 5 clusters represented in this pham: BE2, ED1, DU2, GD3, BS,

Info for manual annotations of cluster BE2:

- Start number 11 was manually annotated 8 times for cluster BE2.
- Start number 20 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BS:

- Start number 3 was manually annotated 1 time for cluster BS.
- Start number 12 was manually annotated 1 time for cluster BS.
- Start number 14 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster DU2:

- Start number 9 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster ED1:

- Start number 4 was manually annotated 1 time for cluster ED1.

Info for manual annotations of cluster GD3:

- Start number 7 was manually annotated 1 time for cluster GD3.

### ***Gene Information:***

Gene: BRock\_118 Start: 64876, Stop: 65322, Start Num: 12

Candidate Starts for BRock\_118:

(Start: 12 @64876 has 1 MA's), (24, 65020), (26, 65038), (27, 65041), (33, 65089), (37, 65104), (39, 65110), (41, 65152), (44, 65203), (52, 65293),

Gene: Cece\_187 Start: 114127, Stop: 113666, Start Num: 7

Candidate Starts for Cece\_187:

(1, 114241), (2, 114238), (5, 114148), (6, 114145), (Start: 7 @114127 has 1 MA's), (15, 114082), (19, 114043), (Start: 20 @114034 has 1 MA's), (25, 113941), (28, 113923), (31, 113908), (35, 113875), (39, 113860),

Gene: CeilingFan\_256 Start: 116457, Stop: 116897, Start Num: 11

Candidate Starts for CeilingFan\_256:

(Start: 11 @116457 has 8 MA's), (13, 116466), (Start: 20 @116526 has 1 MA's), (23, 116577), (33, 116658), (39, 116679), (46, 116817), (50, 116856),

Gene: Enygma\_258 Start: 118257, Stop: 118697, Start Num: 11

Candidate Starts for Enygma\_258:

(Start: 11 @118257 has 8 MA's), (13, 118266), (Start: 20 @118326 has 1 MA's), (23, 118377), (33, 118458), (39, 118479), (46, 118617), (50, 118656),

Gene: GiJojo\_172 Start: 92929, Stop: 93441, Start Num: 3

Candidate Starts for GiJojo\_172:

(Start: 3 @92929 has 1 MA's), (Start: 4 @92962 has 1 MA's), (8, 92998), (10, 93010), (Start: 12 @93028 has 1 MA's), (16, 93052), (18, 93070), (30, 93199), (34, 93232), (38, 93250), (39, 93253), (40, 93277), (44, 93346),

Gene: GiJojo\_115 Start: 67939, Stop: 68364, Start Num: 14

Candidate Starts for GiJojo\_115:

(Start: 14 @67939 has 1 MA's), (36, 68146), (37, 68149), (38, 68152), (39, 68155), (40, 68179), (41, 68197), (42, 68215), (43, 68242), (47, 68311),

Gene: Gibbi\_260 Start: 115950, Stop: 116390, Start Num: 11

Candidate Starts for Gibbi\_260:

(Start: 11 @115950 has 8 MA's), (13, 115959), (Start: 20 @116019 has 1 MA's), (23, 116070), (33, 116151), (39, 116172), (46, 116310), (50, 116349),

Gene: JimJam\_259 Start: 117386, Stop: 117826, Start Num: 11

Candidate Starts for JimJam\_259:

(Start: 11 @117386 has 8 MA's), (13, 117395), (Start: 20 @117455 has 1 MA's), (23, 117506), (33, 117587), (39, 117608), (46, 117746), (50, 117785),

Gene: Karimac\_252 Start: 115850, Stop: 116224, Start Num: 20

Candidate Starts for Karimac\_252:

(13, 115790), (Start: 20 @115850 has 1 MA's), (23, 115901), (33, 115982), (39, 116003), (50, 116180),

Gene: KentuckyRacer\_258 Start: 117301, Stop: 117741, Start Num: 11

Candidate Starts for KentuckyRacer\_258:

(Start: 11 @117301 has 8 MA's), (13, 117310), (Start: 20 @117370 has 1 MA's), (23, 117421), (33, 117502), (39, 117523), (46, 117661), (50, 117700),

Gene: Neville\_119 Start: 67317, Stop: 67757, Start Num: 9

Candidate Starts for Neville\_119:

(Start: 9 @67317 has 2 MA's), (21, 67440), (23, 67455), (39, 67554), (45, 67680), (49, 67719), (51, 67731),

Gene: Quaran19\_252 Start: 115643, Stop: 116083, Start Num: 11

Candidate Starts for Quaran19\_252:

(Start: 11 @115643 has 8 MA's), (13, 115652), (Start: 20 @115712 has 1 MA's), (23, 115763), (33, 115844), (39, 115865), (46, 116003), (50, 116042),

Gene: Rikishi\_260 Start: 115924, Stop: 116364, Start Num: 11

Candidate Starts for Rikishi\_260:

(Start: 11 @115924 has 8 MA's), (13, 115933), (Start: 20 @115993 has 1 MA's), (23, 116044), (33, 116125), (39, 116146), (46, 116284), (50, 116323),

Gene: Roman\_67 Start: 39014, Stop: 38559, Start Num: 4

Candidate Starts for Roman\_67:

(Start: 4 @39014 has 1 MA's), (10, 38966), (17, 38924), (19, 38903), (29, 38801), (34, 38771), (41, 38708),

Gene: Spilled\_259 Start: 116318, Stop: 116758, Start Num: 11

Candidate Starts for Spilled\_259:

(Start: 11 @116318 has 8 MA's), (13, 116327), (Start: 20 @116387 has 1 MA's), (23, 116438), (33, 116519), (39, 116540), (46, 116678), (50, 116717),

Gene: Talos\_125 Start: 67102, Stop: 67527, Start Num: 14

Candidate Starts for Talos\_125:

(Start: 14 @67102 has 1 MA's), (19, 67147), (22, 67201), (32, 67294), (37, 67312), (38, 67315), (39, 67318), (40, 67342), (41, 67360), (43, 67405), (47, 67474), (48, 67477), (53, 67516),

Gene: TomSawyer\_256 Start: 117629, Stop: 118069, Start Num: 11

Candidate Starts for TomSawyer\_256:

(Start: 11 @117629 has 8 MA's), (13, 117638), (Start: 20 @117698 has 1 MA's), (23, 117749), (33, 117830), (39, 117851), (46, 117989), (50, 118028),

Gene: Trax\_120 Start: 68137, Stop: 68577, Start Num: 9

Candidate Starts for Trax\_120:

(Start: 9 @68137 has 2 MA's), (21, 68260), (23, 68275), (39, 68374), (45, 68500), (49, 68539), (51, 68551),

Gene: Wipeout\_242 Start: 116581, Stop: 117021, Start Num: 11

Candidate Starts for Wipeout\_242:

(Start: 11 @116581 has 8 MA's), (13, 116590), (Start: 20 @116650 has 1 MA's), (23, 116701), (33, 116782), (39, 116803), (46, 116941), (50, 116980),