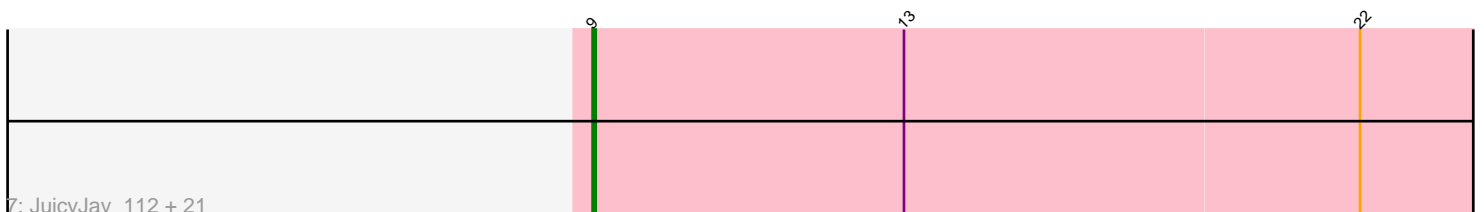
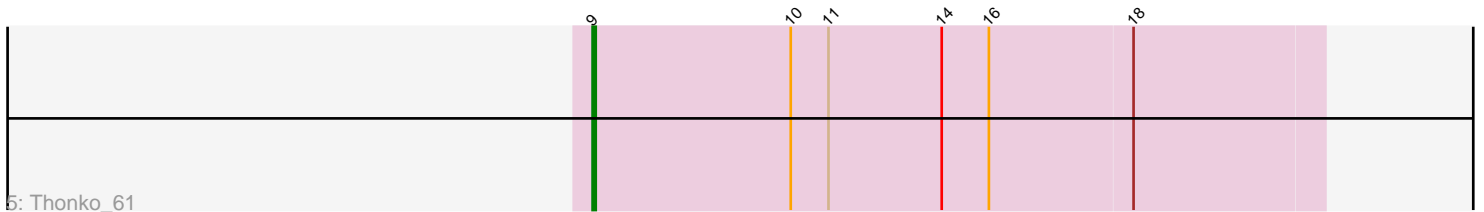
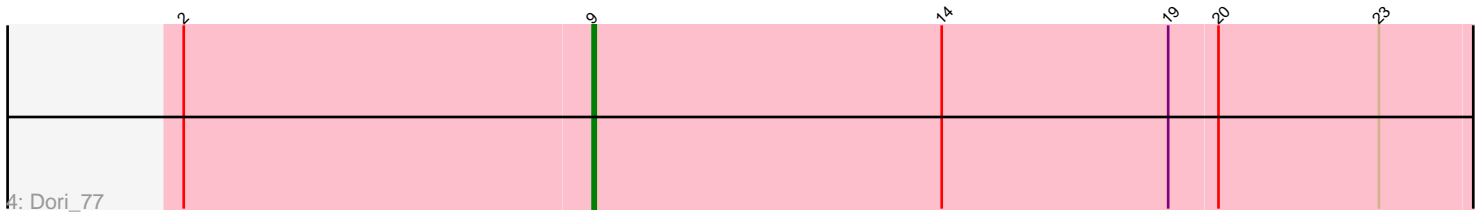
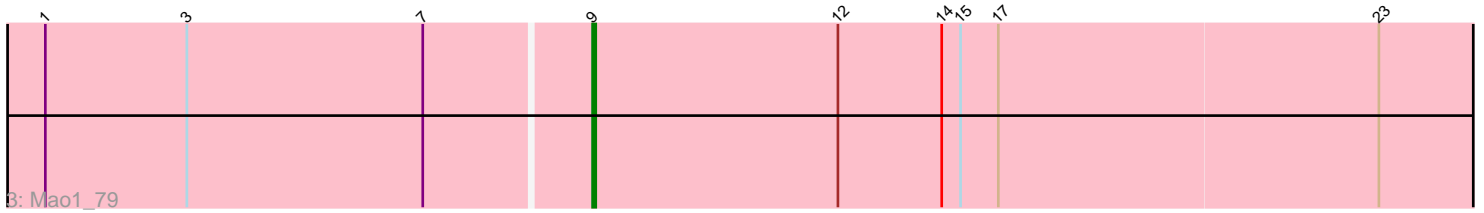
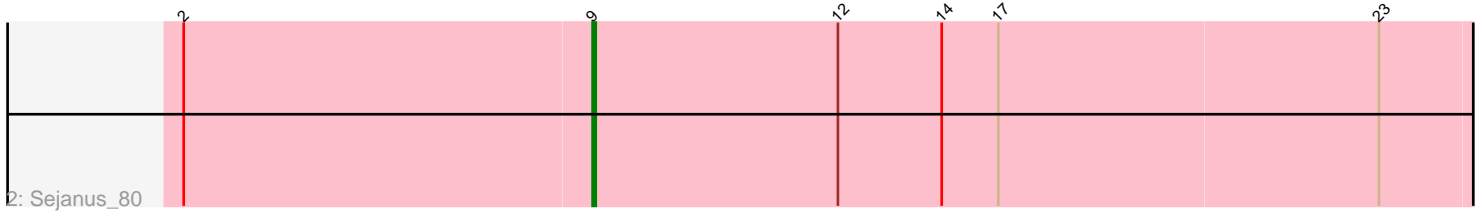
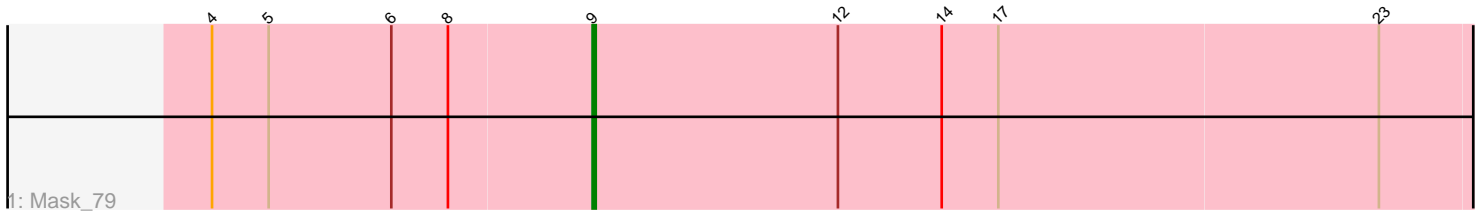


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 218198 Report

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

Pham number 218198 has 28 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Mask\_79
- Track 2 : Sejanus\_80
- Track 3 : Mao1\_79
- Track 4 : Dori\_77
- Track 5 : Thonko\_61
- Track 6 : Bobby\_109
- Track 7 : JuicyJay\_112, Dove\_101, Redno2\_107, ThreeRngTarjay\_112, Ejimix\_109, Duke13\_111, Halley\_117, NihilNomen\_117, Odette\_117, Phoebus\_116, Dallas\_116, Kalah2\_108, Beem\_117, Schatzie\_110, Marleymoo\_99, Bagrid\_116, DmpstrDiver\_116, EricMillard\_108, Zelink\_111, BAKA\_116, Hughesyang\_114, HokkenD\_105

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

The start number called the most often in the published annotations is 9, it was called in 25 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA\_116, Bagrid\_116, Beem\_117, Bobby\_109, Dallas\_116, DmpstrDiver\_116, Dori\_77, Dove\_101, Duke13\_111, Ejimix\_109, EricMillard\_108, Halley\_117, HokkenD\_105, Hughesyang\_114, JuicyJay\_112, Kalah2\_108, Mao1\_79, Marleymoo\_99, Mask\_79, NihilNomen\_117, Odette\_117, Phoebus\_116, Redno2\_107, Schatzie\_110, Sejanus\_80, Thonko\_61, ThreeRngTarjay\_112, Zelink\_111,

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

- 

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

- 

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

Start 9:

- Found in 28 of 28 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 25 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA\_116 (J), Bagrid\_116 (J), Beem\_117 (J), Bobby\_109 (J), Dallas\_116 (J), DmpstrDiver\_116 (J), Dori\_77 (AD), Dove\_101 (J), Duke13\_111 (J), Ejimix\_109 (J), EricMillard\_108 (J), Halley\_117 (J), HokkenD\_105 (J), Hughesyang\_114 (J), JuicyJay\_112 (J), Kalah2\_108 (J), Mao1\_79 (AD), Marleymoo\_99 (J), Mask\_79 (AD), NihilNomen\_117 (J), Odette\_117 (J), Phoebus\_116 (J), Redno2\_107 (J), Schatzie\_110 (J), Sejanus\_80 (AD), Thonko\_61 (B8), ThreeRngTarjay\_112 (J), Zelink\_111 (J),

### **Summary by clusters:**

There are 3 clusters represented in this pham: J, B8, AD,

Info for manual annotations of cluster AD:

- Start number 9 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster B8:

- Start number 9 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster J:

- Start number 9 was manually annotated 20 times for cluster J.

### **Gene Information:**

Gene: BAKA\_116 Start: 64756, Stop: 65043, Start Num: 9

Candidate Starts for BAKA\_116:

(Start: 9 @64756 has 25 MA's), (13, 64855), (22, 64999),

Gene: Bagrid\_116 Start: 64464, Stop: 64751, Start Num: 9

Candidate Starts for Bagrid\_116:

(Start: 9 @64464 has 25 MA's), (13, 64563), (22, 64707),

Gene: Beem\_117 Start: 65818, Stop: 66105, Start Num: 9

Candidate Starts for Beem\_117:

(Start: 9 @65818 has 25 MA's), (13, 65917), (22, 66061),

Gene: Bobby\_109 Start: 66199, Stop: 66486, Start Num: 9

Candidate Starts for Bobby\_109:

(Start: 9 @66199 has 25 MA's), (13, 66298), (21, 66400), (22, 66442),

Gene: Dallas\_116 Start: 65333, Stop: 65620, Start Num: 9

Candidate Starts for Dallas\_116:

(Start: 9 @65333 has 25 MA's), (13, 65432), (22, 65576),

Gene: DmpstrDiver\_116 Start: 64753, Stop: 65040, Start Num: 9

Candidate Starts for DmpstrDiver\_116:

(Start: 9 @64753 has 25 MA's), (13, 64852), (22, 64996),

Gene: Dori\_77 Start: 56600, Stop: 56884, Start Num: 9

Candidate Starts for Dori\_77:

(2, 56471), (Start: 9 @56600 has 25 MA's), (14, 56711), (19, 56783), (20, 56798), (23, 56849),

Gene: Dove\_101 Start: 60247, Stop: 60534, Start Num: 9

Candidate Starts for Dove\_101:

(Start: 9 @60247 has 25 MA's), (13, 60346), (22, 60490),

Gene: Duke13\_111 Start: 62424, Stop: 62711, Start Num: 9

Candidate Starts for Duke13\_111:

(Start: 9 @62424 has 25 MA's), (13, 62523), (22, 62667),

Gene: Ejimix\_109 Start: 65512, Stop: 65799, Start Num: 9

Candidate Starts for Ejimix\_109:

(Start: 9 @65512 has 25 MA's), (13, 65611), (22, 65755),

Gene: EricMillard\_108 Start: 64393, Stop: 64680, Start Num: 9

Candidate Starts for EricMillard\_108:

(Start: 9 @64393 has 25 MA's), (13, 64492), (22, 64636),

Gene: Halley\_117 Start: 65828, Stop: 66115, Start Num: 9

Candidate Starts for Halley\_117:

(Start: 9 @65828 has 25 MA's), (13, 65927), (22, 66071),

Gene: HokkenD\_105 Start: 63087, Stop: 63374, Start Num: 9

Candidate Starts for HokkenD\_105:

(Start: 9 @63087 has 25 MA's), (13, 63186), (22, 63330),

Gene: Hughesyang\_114 Start: 65284, Stop: 65571, Start Num: 9

Candidate Starts for Hughesyang\_114:

(Start: 9 @65284 has 25 MA's), (13, 65383), (22, 65527),

Gene: JuicyJay\_112 Start: 66953, Stop: 67240, Start Num: 9

Candidate Starts for JuicyJay\_112:

(Start: 9 @66953 has 25 MA's), (13, 67052), (22, 67196),

Gene: Kalah2\_108 Start: 64619, Stop: 64906, Start Num: 9

Candidate Starts for Kalah2\_108:

(Start: 9 @64619 has 25 MA's), (13, 64718), (22, 64862),

Gene: Mao1\_79 Start: 55415, Stop: 55702, Start Num: 9

Candidate Starts for Mao1\_79:

(1, 55244), (3, 55289), (7, 55364), (Start: 9 @55415 has 25 MA's), (12, 55493), (14, 55526), (15, 55532), (17, 55544), (23, 55664),

Gene: Marleymoo\_99 Start: 61945, Stop: 62232, Start Num: 9

Candidate Starts for Marleymoo\_99:

(Start: 9 @61945 has 25 MA's), (13, 62044), (22, 62188),

Gene: Mask\_79 Start: 57892, Stop: 58176, Start Num: 9

Candidate Starts for Mask\_79:

(4, 57772), (5, 57790), (6, 57829), (8, 57847), (Start: 9 @57892 has 25 MA's), (12, 57970), (14, 58003), (17, 58021), (23, 58141),

Gene: NihilNomen\_117 Start: 64905, Stop: 65192, Start Num: 9  
Candidate Starts for NihilNomen\_117:  
(Start: 9 @64905 has 25 MA's), (13, 65004), (22, 65148),

Gene: Odette\_117 Start: 64813, Stop: 65100, Start Num: 9  
Candidate Starts for Odette\_117:  
(Start: 9 @64813 has 25 MA's), (13, 64912), (22, 65056),

Gene: Phoebus\_116 Start: 66595, Stop: 66882, Start Num: 9  
Candidate Starts for Phoebus\_116:  
(Start: 9 @66595 has 25 MA's), (13, 66694), (22, 66838),

Gene: Redno2\_107 Start: 61609, Stop: 61896, Start Num: 9  
Candidate Starts for Redno2\_107:  
(Start: 9 @61609 has 25 MA's), (13, 61708), (22, 61852),

Gene: Schatzie\_110 Start: 63695, Stop: 63982, Start Num: 9  
Candidate Starts for Schatzie\_110:  
(Start: 9 @63695 has 25 MA's), (13, 63794), (22, 63938),

Gene: Sejanus\_80 Start: 56748, Stop: 57032, Start Num: 9  
Candidate Starts for Sejanus\_80:  
(2, 56619), (Start: 9 @56748 has 25 MA's), (12, 56826), (14, 56859), (17, 56877), (23, 56997),

Gene: Thonko\_61 Start: 53409, Stop: 53179, Start Num: 9  
Candidate Starts for Thonko\_61:  
(Start: 9 @53409 has 25 MA's), (10, 53346), (11, 53334), (14, 53298), (16, 53283), (18, 53238),

Gene: ThreeRngTarjay\_112 Start: 65851, Stop: 66138, Start Num: 9  
Candidate Starts for ThreeRngTarjay\_112:  
(Start: 9 @65851 has 25 MA's), (13, 65950), (22, 66094),

Gene: Zelink\_111 Start: 65798, Stop: 66085, Start Num: 9  
Candidate Starts for Zelink\_111:  
(Start: 9 @65798 has 25 MA's), (13, 65897), (22, 66041),