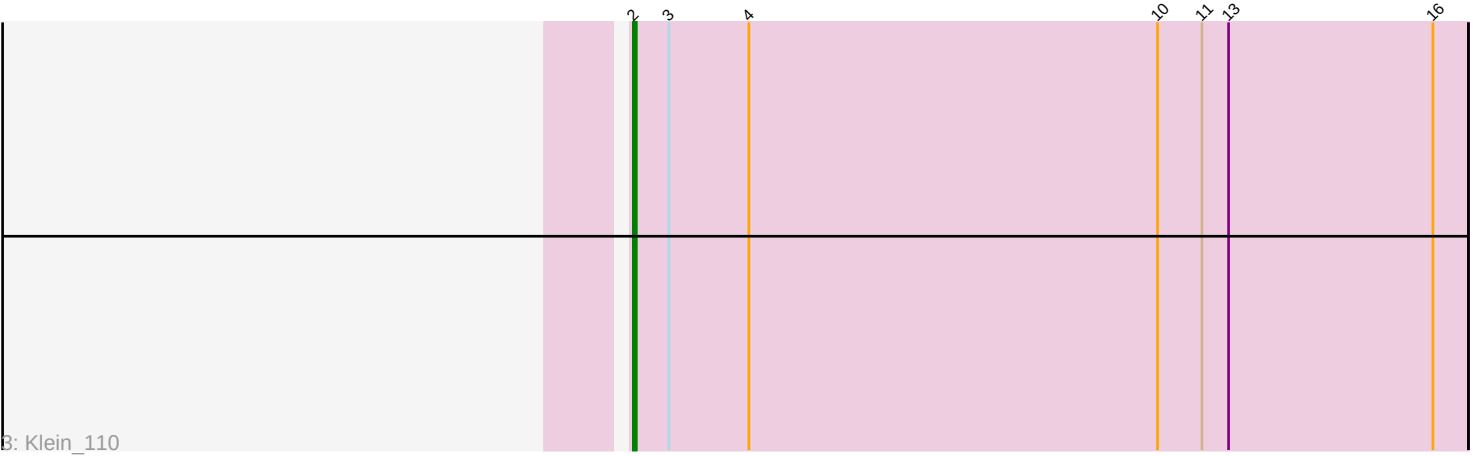
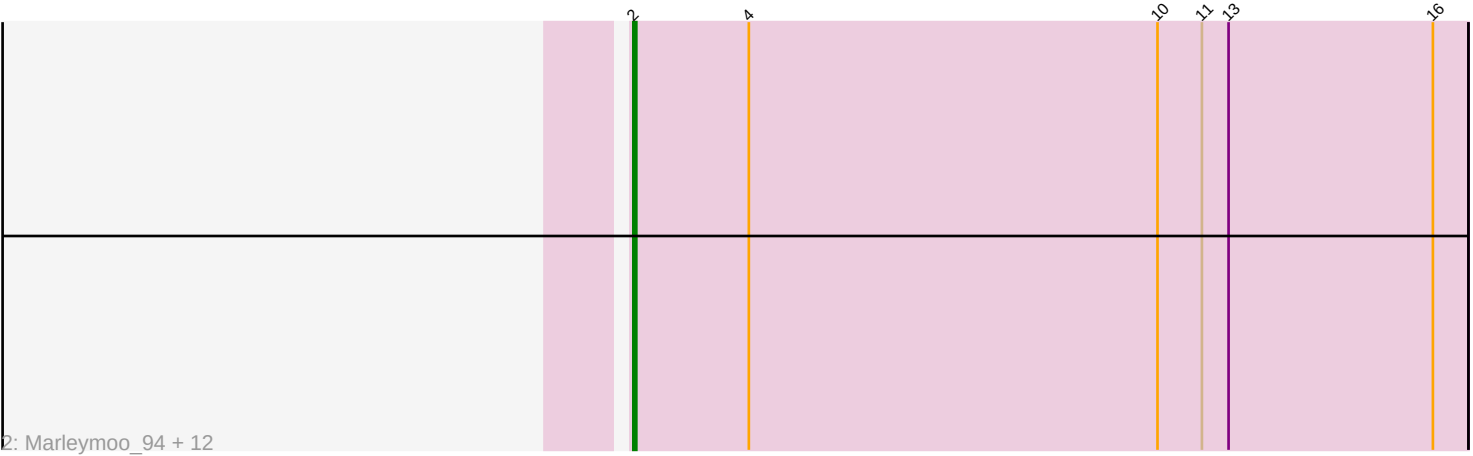
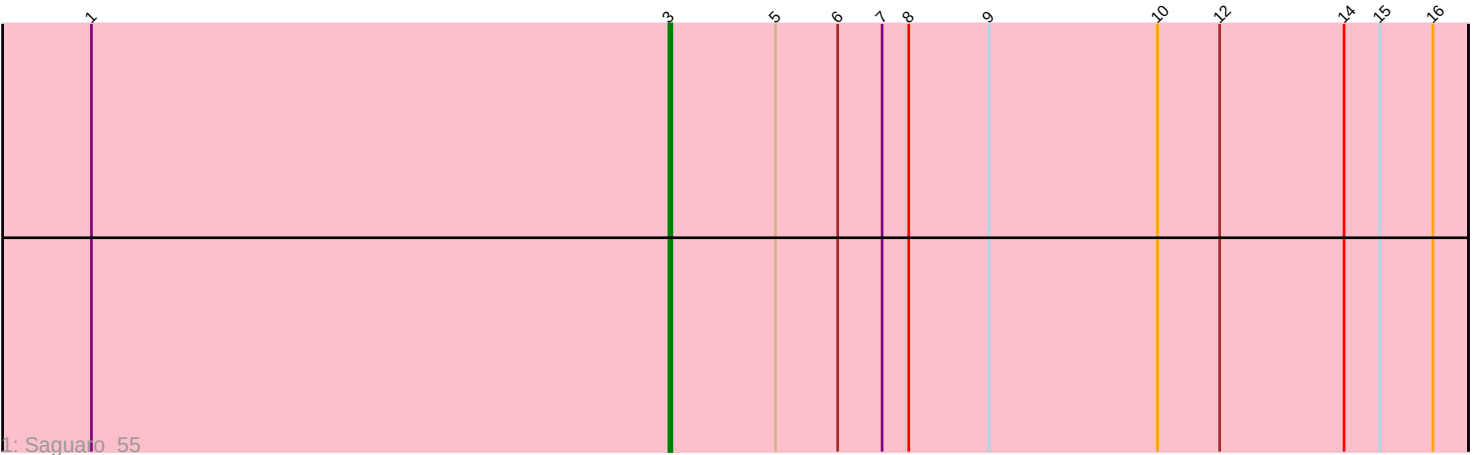




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 331368 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331368 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Saguaro\_55
- Track 2 : Marleymoo\_94, Optimus\_104, Bombitas\_99, BAKA\_111, Dove\_96, Wanda\_113, Pound\_102, Minerva\_110, NihilNomen\_112, Duke13\_106, HokkenD\_100, Schatzie\_105, Yeet\_102
- Track 3 : Klein\_110

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

The start number called the most often in the published annotations is 2, it was called in 13 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA\_111, Bombitas\_99, Dove\_96, Duke13\_106, HokkenD\_100, Klein\_110, Marleymoo\_94, Minerva\_110, NihilNomen\_112, Optimus\_104, Pound\_102, Schatzie\_105, Wanda\_113, Yeet\_102,

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

- 

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

- Saguaro\_55,

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

Start 2:

- Found in 14 of 15 ( 93.3% ) of genes in pham
- Manual Annotations of this start: 13 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA\_111 (J), Bombitas\_99 (J), Dove\_96 (J), Duke13\_106 (J), HokkenD\_100 (J), Klein\_110 (J), Marleymoo\_94 (J), Minerva\_110 (J), NihilNomen\_112 (J), Optimus\_104 (J), Pound\_102 (J), Schatzie\_105 (J), Wanda\_113 (J), Yeet\_102 (J),

Start 3:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Saguaro\_55 (B7),

### **Summary by clusters:**

There are 2 clusters represented in this pham: J, B7,

Info for manual annotations of cluster B7:

- Start number 3 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster J:

- Start number 2 was manually annotated 13 times for cluster J.

### **Gene Information:**

Gene: BAKA\_111 Start: 63801, Stop: 64082, Start Num: 2

Candidate Starts for BAKA\_111:

(Start: 2 @63801 has 13 MA's), (4, 63840), (10, 63978), (11, 63993), (13, 64002), (16, 64071),

Gene: Bombitas\_99 Start: 61026, Stop: 61307, Start Num: 2

Candidate Starts for Bombitas\_99:

(Start: 2 @61026 has 13 MA's), (4, 61065), (10, 61203), (11, 61218), (13, 61227), (16, 61296),

Gene: Dove\_96 Start: 59292, Stop: 59573, Start Num: 2

Candidate Starts for Dove\_96:

(Start: 2 @59292 has 13 MA's), (4, 59331), (10, 59469), (11, 59484), (13, 59493), (16, 59562),

Gene: Duke13\_106 Start: 61469, Stop: 61750, Start Num: 2

Candidate Starts for Duke13\_106:

(Start: 2 @61469 has 13 MA's), (4, 61508), (10, 61646), (11, 61661), (13, 61670), (16, 61739),

Gene: HokkenD\_100 Start: 62132, Stop: 62413, Start Num: 2

Candidate Starts for HokkenD\_100:

(Start: 2 @62132 has 13 MA's), (4, 62171), (10, 62309), (11, 62324), (13, 62333), (16, 62402),

Gene: Klein\_110 Start: 62530, Stop: 62811, Start Num: 2

Candidate Starts for Klein\_110:

(Start: 2 @62530 has 13 MA's), (Start: 3 @62542 has 1 MA's), (4, 62569), (10, 62707), (11, 62722), (13, 62731), (16, 62800),

Gene: Marleymoo\_94 Start: 60990, Stop: 61271, Start Num: 2

Candidate Starts for Marleymoo\_94:

(Start: 2 @60990 has 13 MA's), (4, 61029), (10, 61167), (11, 61182), (13, 61191), (16, 61260),

Gene: Minerva\_110 Start: 63809, Stop: 64090, Start Num: 2

Candidate Starts for Minerva\_110:

(Start: 2 @63809 has 13 MA's), (4, 63848), (10, 63986), (11, 64001), (13, 64010), (16, 64079),

Gene: NihilNomen\_112 Start: 63950, Stop: 64231, Start Num: 2

Candidate Starts for NihilNomen\_112:

(Start: 2 @63950 has 13 MA's), (4, 63989), (10, 64127), (11, 64142), (13, 64151), (16, 64220),

Gene: Optimus\_104 Start: 62481, Stop: 62762, Start Num: 2

Candidate Starts for Optimus\_104:

(Start: 2 @62481 has 13 MA's), (4, 62520), (10, 62658), (11, 62673), (13, 62682), (16, 62751),

Gene: Pound\_102 Start: 62827, Stop: 63108, Start Num: 2

Candidate Starts for Pound\_102:

(Start: 2 @62827 has 13 MA's), (4, 62866), (10, 63004), (11, 63019), (13, 63028), (16, 63097),

Gene: Saguaro\_55 Start: 49468, Stop: 49199, Start Num: 3

Candidate Starts for Saguaro\_55:

(1, 49663), (Start: 3 @49468 has 1 MA's), (5, 49432), (6, 49411), (7, 49396), (8, 49387), (9, 49360),  
(10, 49303), (12, 49282), (14, 49240), (15, 49228), (16, 49210),

Gene: Schatzie\_105 Start: 62740, Stop: 63021, Start Num: 2

Candidate Starts for Schatzie\_105:

(Start: 2 @62740 has 13 MA's), (4, 62779), (10, 62917), (11, 62932), (13, 62941), (16, 63010),

Gene: Wanda\_113 Start: 62807, Stop: 63088, Start Num: 2

Candidate Starts for Wanda\_113:

(Start: 2 @62807 has 13 MA's), (4, 62846), (10, 62984), (11, 62999), (13, 63008), (16, 63077),

Gene: Yeet\_102 Start: 61905, Stop: 62186, Start Num: 2

Candidate Starts for Yeet\_102:

(Start: 2 @61905 has 13 MA's), (4, 61944), (10, 62082), (11, 62097), (13, 62106), (16, 62175),