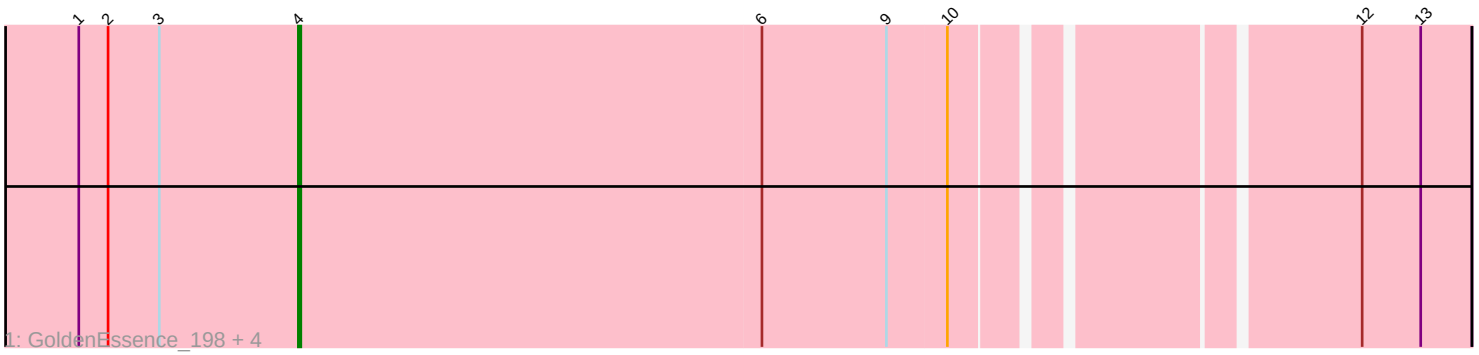
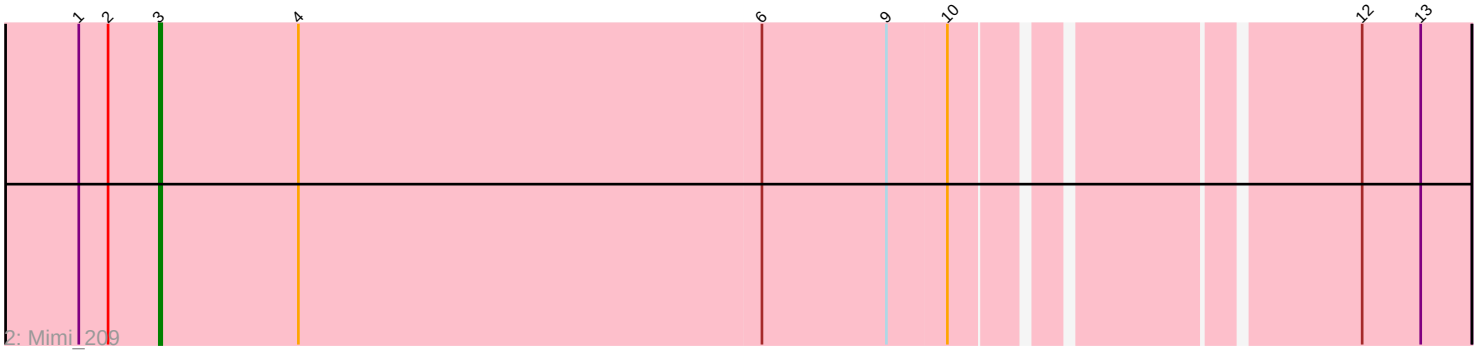
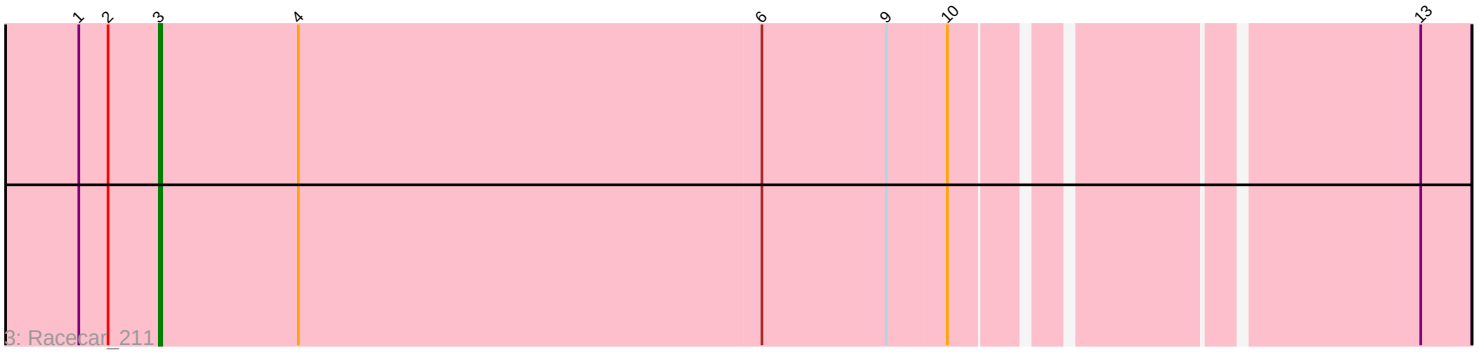
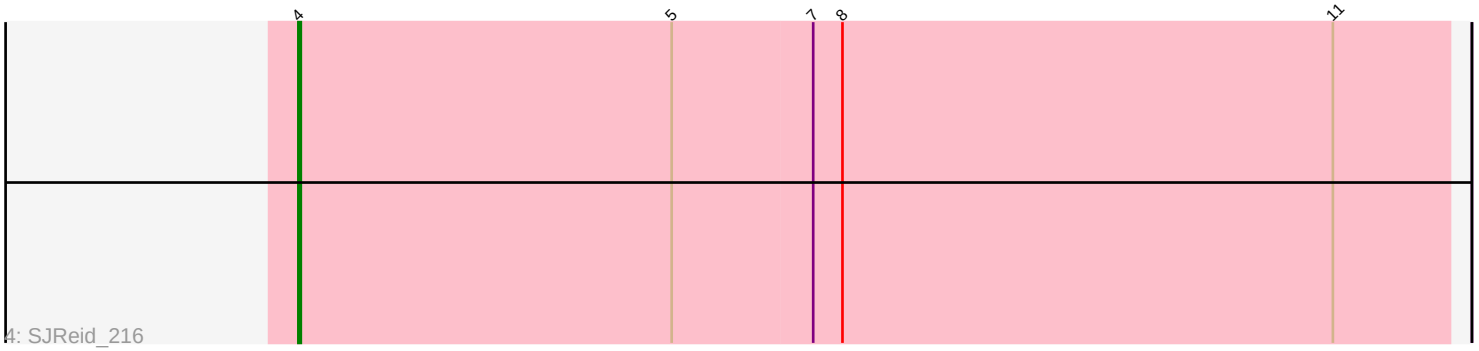
# Pham 348322


1
2
3
4
6
9
10
12
13
1: GoldenEssence_198 + 4


1
2
3
4
6
9
10
12
13
2: Mimi_209


1
2
3
4
6
9
10
13
3: Racecar_211


4
5
7
8
11
4: SJReid_216

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 348322 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348322 has 8 members, 1 are drafts.

Phages represented in each track:
• Track 1 : GoldenEssence_198, Talia1610_211, FrostedClock_211, Bloom_214, Patbob_207
• Track 2 : Mimi_209
• Track 3 : Racecar_211
• Track 4 : SJReid_216

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

The start number called the most often in the published annotations is 4, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_214, FrostedClock_211, GoldenEssence_198, Patbob_207, SJReid_216, Talia1610_211,

Genes that have the "Most Annotated" start but do not call it:
• Mimi_209, Racecar_211,

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

**Summary by start number:**

Start 3:
• Found in 7 of 8 ( 87.5% ) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Mimi_209 (FC), Racecar_211 (FC),

Start 4:
• Found in 8 of 8 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 5 of 7
• Called 75.0% of time when present

• Phage (with cluster) where this start called: Bloom_214 (FC), FrostedClock_211 (FC), GoldenEssence_198 (FC), Patbob_207 (FC), SJReid_216 (FC), Talia1610_211 (FC),

**Summary by clusters:**

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 3 was manually annotated 2 times for cluster FC.
•Start number 4 was manually annotated 5 times for cluster FC.

***Gene Information:***

Gene: Bloom_214 Start: 145192, Stop: 145647, Start Num: 4
Candidate Starts for Bloom_214:
(1, 145102), (2, 145114), (Start: 3 @145135 has 2 MA's), (Start: 4 @145192 has 5 MA's), (6, 145381), (9, 145432), (10, 145456), (12, 145603), (13, 145627),

Gene: FrostedClock_211 Start: 145112, Stop: 145567, Start Num: 4
Candidate Starts for FrostedClock_211:
(1, 145022), (2, 145034), (Start: 3 @145055 has 2 MA's), (Start: 4 @145112 has 5 MA's), (6, 145301), (9, 145352), (10, 145376), (12, 145523), (13, 145547),

Gene: GoldenEssence_198 Start: 139168, Stop: 139623, Start Num: 4
Candidate Starts for GoldenEssence_198:
(1, 139078), (2, 139090), (Start: 3 @139111 has 2 MA's), (Start: 4 @139168 has 5 MA's), (6, 139357), (9, 139408), (10, 139432), (12, 139579), (13, 139603),

Gene: Mimi_209 Start: 144510, Stop: 145022, Start Num: 3
Candidate Starts for Mimi_209:
(1, 144477), (2, 144489), (Start: 3 @144510 has 2 MA's), (Start: 4 @144567 has 5 MA's), (6, 144756), (9, 144807), (10, 144831), (12, 144978), (13, 145002),

Gene: Patbob_207 Start: 144965, Stop: 145420, Start Num: 4
Candidate Starts for Patbob_207:
(1, 144875), (2, 144887), (Start: 3 @144908 has 2 MA's), (Start: 4 @144965 has 5 MA's), (6, 145154), (9, 145205), (10, 145229), (12, 145376), (13, 145400),

Gene: Racecar_211 Start: 144890, Stop: 145402, Start Num: 3
Candidate Starts for Racecar_211:
(1, 144857), (2, 144869), (Start: 3 @144890 has 2 MA's), (Start: 4 @144947 has 5 MA's), (6, 145136), (9, 145187), (10, 145211), (13, 145382),

Gene: SJReid_216 Start: 138571, Stop: 139041, Start Num: 4
Candidate Starts for SJReid_216:
(Start: 4 @138571 has 5 MA's), (5, 138724), (7, 138781), (8, 138793), (11, 138994),

Gene: Talia1610_211 Start: 144976, Stop: 145431, Start Num: 4
Candidate Starts for Talia1610_211:

(1, 144886), (2, 144898), (Start: 3 @144919 has 2 MA's), (Start: 4 @144976 has 5 MA's), (6, 145165), (9, 145216), (10, 145240), (12, 145387), (13, 145411),