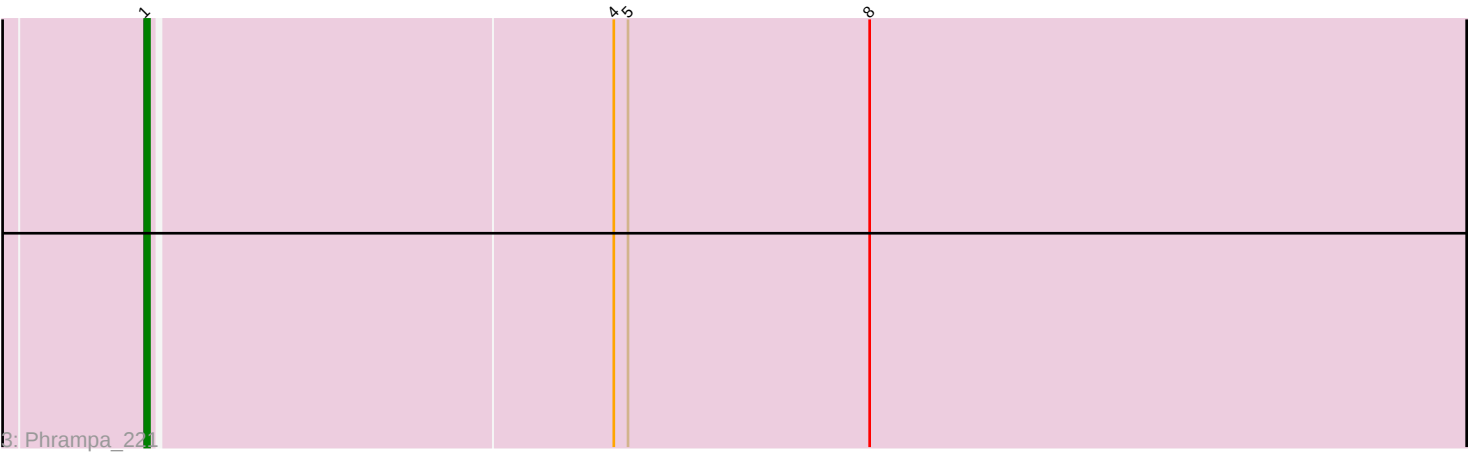
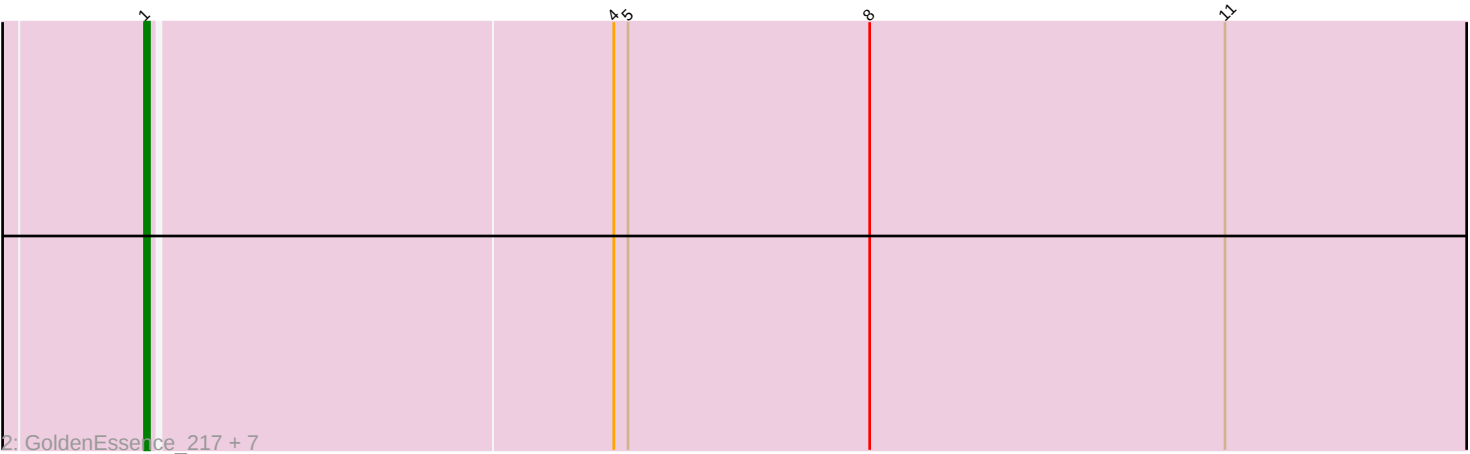
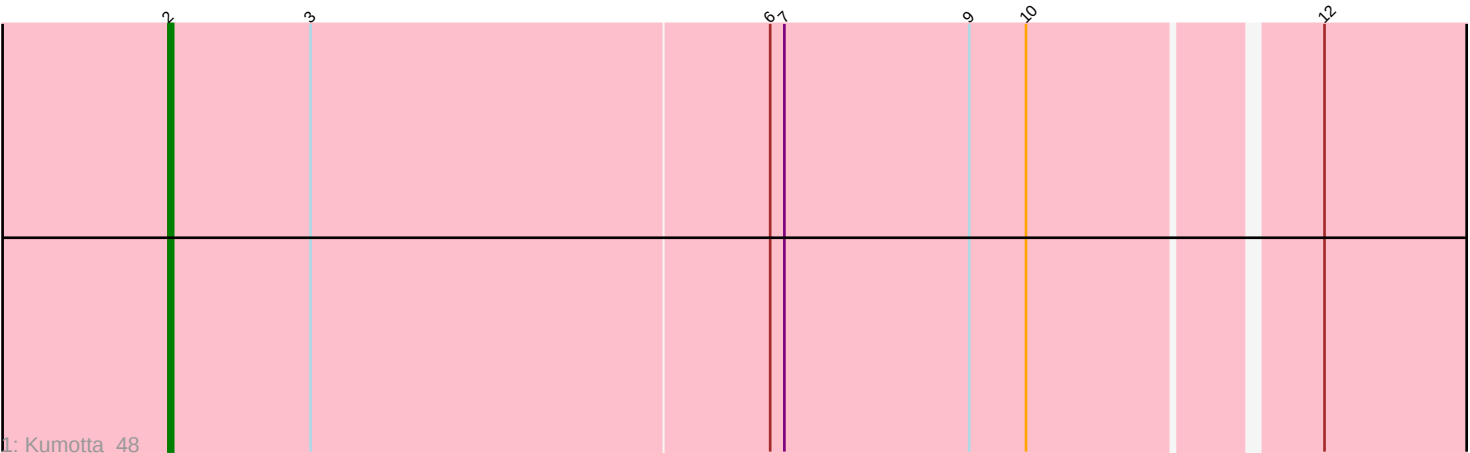




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 331495 Report

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

Pham number 331495 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Kumotta_48
- Track 2 : GoldenEssence_217, Bloom_232, Patbob_226, FrostedClock_232, Mimi_228, Talia1610_230, FloraSnap32_225, Racecar_230
- Track 3 : Phrampa_221

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom_232, FloraSnap32_225, FrostedClock_232, GoldenEssence_217, Mimi_228, Patbob_226, Phrampa_221, Racecar_230, Talia1610_230,

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

-

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

- Kumotta_48,

Summary by start number:

Start 1:

- Found in 9 of 10 (90.0%) of genes in pham
- Manual Annotations of this start: 6 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom_232 (FC), FloraSnap32_225 (FC), FrostedClock_232 (FC), GoldenEssence_217 (FC), Mimi_228 (FC), Patbob_226 (FC), Phrampa_221 (FC), Racecar_230 (FC), Talia1610_230 (FC),

Start 2:

- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Kumotta_48 (FB),

Summary by clusters:

There are 2 clusters represented in this pham: FB, FC,

Info for manual annotations of cluster FB:

- Start number 2 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 6 times for cluster FC.

Gene Information:

Gene: Bloom_232 Start: 152192, Stop: 152467, Start Num: 1

Candidate Starts for Bloom_232:

(Start: 1 @152192 has 6 MA's), (4, 152288), (5, 152291), (8, 152342), (11, 152417),

Gene: FloraSnap32_225 Start: 150352, Stop: 150627, Start Num: 1

Candidate Starts for FloraSnap32_225:

(Start: 1 @150352 has 6 MA's), (4, 150448), (5, 150451), (8, 150502), (11, 150577),

Gene: FrostedClock_232 Start: 152336, Stop: 152611, Start Num: 1

Candidate Starts for FrostedClock_232:

(Start: 1 @152336 has 6 MA's), (4, 152432), (5, 152435), (8, 152486), (11, 152561),

Gene: GoldenEssence_217 Start: 146169, Stop: 146444, Start Num: 1

Candidate Starts for GoldenEssence_217:

(Start: 1 @146169 has 6 MA's), (4, 146265), (5, 146268), (8, 146319), (11, 146394),

Gene: Kumotta_48 Start: 29690, Stop: 29956, Start Num: 2

Candidate Starts for Kumotta_48:

(Start: 2 @29690 has 1 MA's), (3, 29720), (6, 29816), (7, 29819), (9, 29858), (10, 29870), (12, 29927),

Gene: Mimi_228 Start: 151567, Stop: 151842, Start Num: 1

Candidate Starts for Mimi_228:

(Start: 1 @151567 has 6 MA's), (4, 151663), (5, 151666), (8, 151717), (11, 151792),

Gene: Patbob_226 Start: 151965, Stop: 152240, Start Num: 1

Candidate Starts for Patbob_226:

(Start: 1 @151965 has 6 MA's), (4, 152061), (5, 152064), (8, 152115), (11, 152190),

Gene: Phrampa_221 Start: 152824, Stop: 153102, Start Num: 1

Candidate Starts for Phrampa_221:

(Start: 1 @152824 has 6 MA's), (4, 152920), (5, 152923), (8, 152974),

Gene: Racecar_230 Start: 151946, Stop: 152221, Start Num: 1

Candidate Starts for Racecar_230:

(Start: 1 @151946 has 6 MA's), (4, 152042), (5, 152045), (8, 152096), (11, 152171),

Gene: Talia1610_230 Start: 151976, Stop: 152251, Start Num: 1

Candidate Starts for Talia1610_230:

(Start: 1 @151976 has 6 MA's), (4, 152072), (5, 152075), (8, 152126), (11, 152201),