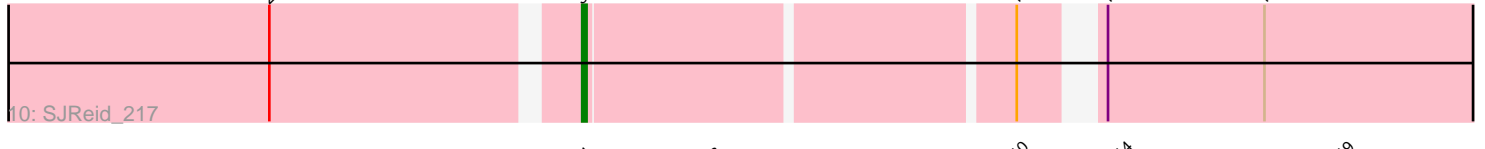
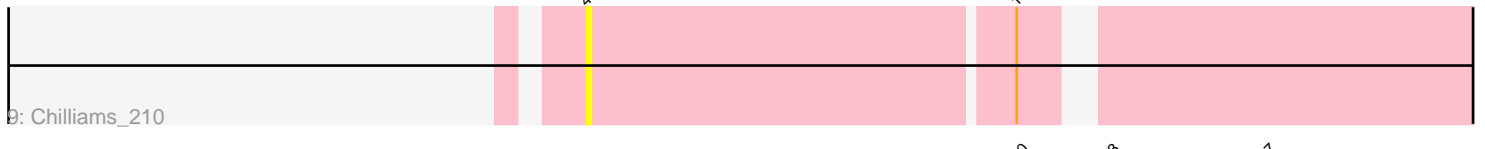
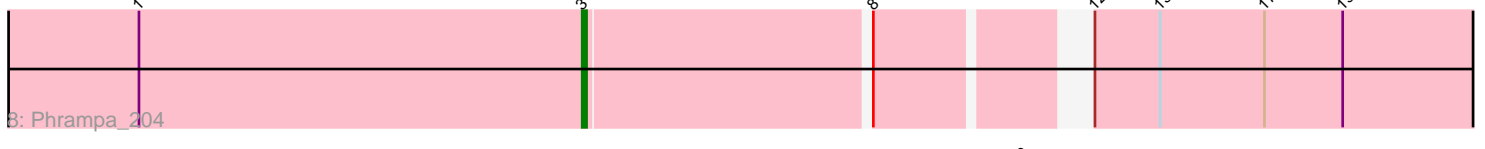
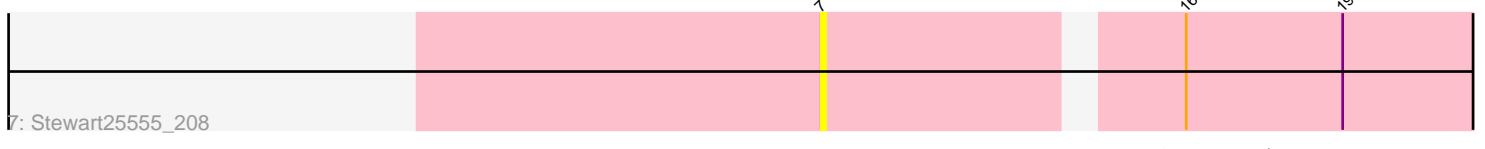
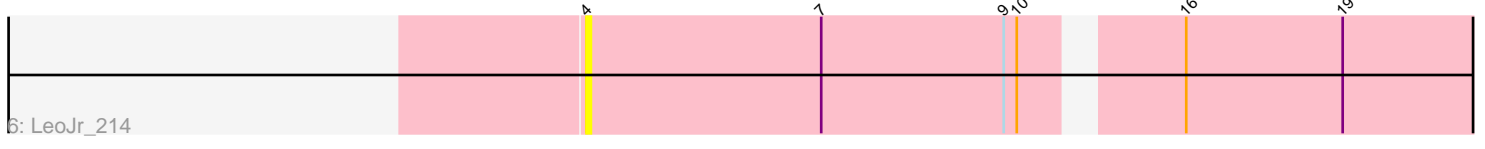
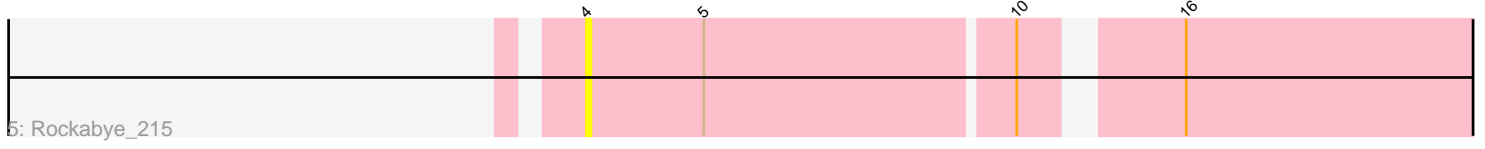
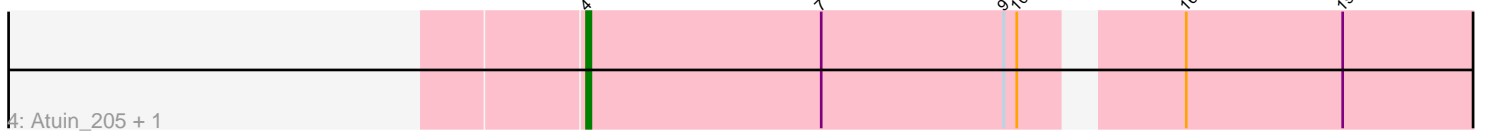
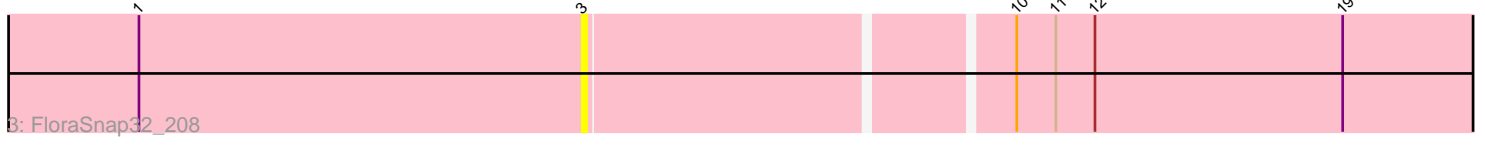
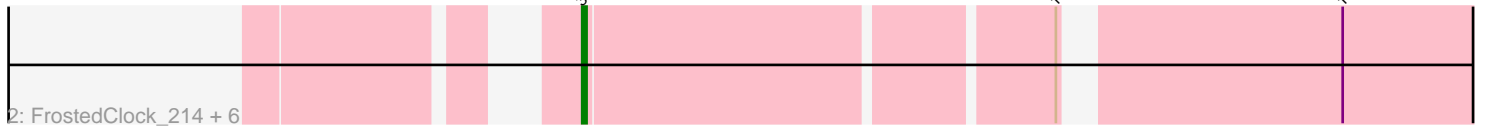
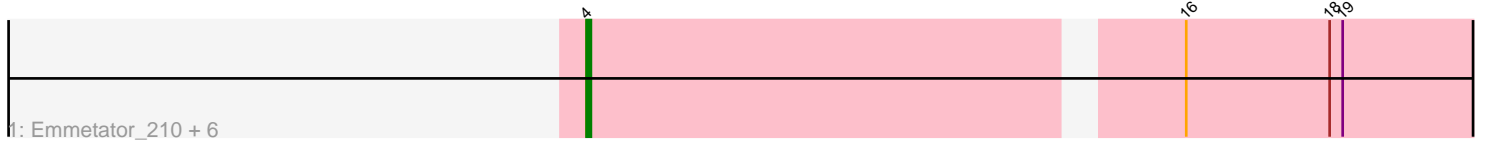


Pham 309194



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 309194 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309194 has 24 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Emmetator_210, Ellewin_205, DunneganBoMo_207, WaddleDee_202, BooTeria_215, Artu_208, KSunshine22_210
- Track 2 : FrostedClock_214, Bloom_215, Patbob_208, Racecar_212, GoldenEssence_199, Talia1610_212, Mimi_210
- Track 3 : FloraSnap32_208
- Track 4 : Atuin_205, ReginaGlobina_217
- Track 5 : Rockabye_215
- Track 6 : LeoJr_214
- Track 7 : Stewart25555_208
- Track 8 : Phrampa_204
- Track 9 : Chilliams_210
- Track 10 : SJReid_217
- Track 11 : Laure_216

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

The start number called the most often in the published annotations is 3, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom_215, FloraSnap32_208, FrostedClock_214, GoldenEssence_199, Mimi_210, Patbob_208, Phrampa_204, Racecar_212, SJReid_217, Talia1610_212,

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

-

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

- Artu_208, Atuin_205, BooTeria_215, Chilliams_210, DunneganBoMo_207, Ellewin_205, Emmetator_210, KSunshine22_210, Laure_216, LeoJr_214, ReginaGlobina_217, Rockabye_215, Stewart25555_208, WaddleDee_202,

Summary by start number:

Start 3:

- Found in 10 of 24 (41.7%) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom_215 (FC), FloraSnap32_208 (FC), FrostedClock_214 (FC), GoldenEssence_199 (FC), Mimi_210 (FC), Patbob_208 (FC), Phrampa_204 (FC), Racecar_212 (FC), SJReid_217 (FC), Talia1610_212 (FC),

Start 4:

- Found in 13 of 24 (54.2%) of genes in pham
- Manual Annotations of this start: 4 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu_208 (FC), Atuin_205 (FC), BooTeria_215 (FC), Chilliams_210 (FC), DunneganBoMo_207 (FC), Ellewin_205 (FC), Emmetator_210 (FC), KSunshine22_210 (FC), Laure_216 (UNK), LeoJr_214 (FC), ReginaGlobina_217 (FC), Rockabye_215 (FC), WaddleDee_202 (FC),

Start 7:

- Found in 4 of 24 (16.7%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Stewart25555_208 (FC),

Summary by clusters:

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

Info for manual annotations of cluster FC:

- Start number 3 was manually annotated 7 times for cluster FC.
- Start number 4 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: Artu_208 Start: 150537, Stop: 150752, Start Num: 4

Candidate Starts for Artu_208:

(Start: 4 @150537 has 4 MA's), (16, 150666), (18, 150699), (19, 150702),

Gene: Atuin_205 Start: 143766, Stop: 143978, Start Num: 4

Candidate Starts for Atuin_205:

(Start: 4 @143766 has 4 MA's), (7, 143820), (9, 143862), (10, 143865), (16, 143895), (19, 143931),

Gene: Bloom_215 Start: 145686, Stop: 145892, Start Num: 3

Candidate Starts for Bloom_215:

(Start: 3 @145686 has 7 MA's), (11, 145788), (19, 145845),

Gene: BooTeria_215 Start: 150047, Stop: 150259, Start Num: 4

Candidate Starts for BooTeria_215:

(Start: 4 @150047 has 4 MA's), (16, 150176), (18, 150209), (19, 150212),

Gene: Chilliams_210 Start: 141446, Stop: 141658, Start Num: 4

Candidate Starts for Chilliams_210:
(Start: 4 @141446 has 4 MA's), (10, 141542),

Gene: DunneganBoMo_207 Start: 149511, Stop: 149723, Start Num: 4
Candidate Starts for DunneganBoMo_207:
(Start: 4 @149511 has 4 MA's), (16, 149640), (18, 149673), (19, 149676),

Gene: Ellewin_205 Start: 148778, Stop: 148990, Start Num: 4
Candidate Starts for Ellewin_205:
(Start: 4 @148778 has 4 MA's), (16, 148907), (18, 148940), (19, 148943),

Gene: Emmetator_210 Start: 148907, Stop: 149122, Start Num: 4
Candidate Starts for Emmetator_210:
(Start: 4 @148907 has 4 MA's), (16, 149036), (18, 149069), (19, 149072),

Gene: FloraSnap32_208 Start: 143800, Stop: 144015, Start Num: 3
Candidate Starts for FloraSnap32_208:
(1, 143698), (Start: 3 @143800 has 7 MA's), (10, 143893), (11, 143902), (12, 143911), (19, 143968),

Gene: FrostedClock_214 Start: 145606, Stop: 145812, Start Num: 3
Candidate Starts for FrostedClock_214:
(Start: 3 @145606 has 7 MA's), (11, 145708), (19, 145765),

Gene: GoldenEssence_199 Start: 139662, Stop: 139868, Start Num: 3
Candidate Starts for GoldenEssence_199:
(Start: 3 @139662 has 7 MA's), (11, 139764), (19, 139821),

Gene: KSunshine22_210 Start: 148189, Stop: 148401, Start Num: 4
Candidate Starts for KSunshine22_210:
(Start: 4 @148189 has 4 MA's), (16, 148318), (18, 148351), (19, 148354),

Gene: Laure_216 Start: 134036, Stop: 134245, Start Num: 4
Candidate Starts for Laure_216:
(Start: 4 @134036 has 4 MA's), (6, 134066), (10, 134129), (14, 134144), (19, 134195),

Gene: LeoJr_214 Start: 143938, Stop: 144150, Start Num: 4
Candidate Starts for LeoJr_214:
(Start: 4 @143938 has 4 MA's), (7, 143992), (9, 144034), (10, 144037), (16, 144067), (19, 144103),

Gene: Mimi_210 Start: 145061, Stop: 145267, Start Num: 3
Candidate Starts for Mimi_210:
(Start: 3 @145061 has 7 MA's), (11, 145163), (19, 145220),

Gene: Patbob_208 Start: 145459, Stop: 145665, Start Num: 3
Candidate Starts for Patbob_208:
(Start: 3 @145459 has 7 MA's), (11, 145561), (19, 145618),

Gene: Phrampa_204 Start: 145926, Stop: 146132, Start Num: 3
Candidate Starts for Phrampa_204:
(1, 145824), (Start: 3 @145926 has 7 MA's), (8, 145989), (12, 146028), (15, 146043), (17, 146067),
(19, 146085),

Gene: Racecar_212 Start: 145441, Stop: 145647, Start Num: 3

Candidate Starts for Racecar_212:

(Start: 3 @145441 has 7 MA's), (11, 145543), (19, 145600),

Gene: ReginaGlobina_217 Start: 145222, Stop: 145434, Start Num: 4

Candidate Starts for ReginaGlobina_217:

(Start: 4 @145222 has 4 MA's), (7, 145276), (9, 145318), (10, 145321), (16, 145351), (19, 145387),

Gene: Rockabye_215 Start: 140078, Stop: 140290, Start Num: 4

Candidate Starts for Rockabye_215:

(Start: 4 @140078 has 4 MA's), (5, 140105), (10, 140174), (16, 140204),

Gene: SJReid_217 Start: 139091, Stop: 139300, Start Num: 3

Candidate Starts for SJReid_217:

(2, 139025), (Start: 3 @139091 has 7 MA's), (10, 139184), (13, 139196), (17, 139232),

Gene: Stewart25555_208 Start: 147487, Stop: 147645, Start Num: 7

Candidate Starts for Stewart25555_208:

(7, 147487), (16, 147562), (19, 147598),

Gene: Talia1610_212 Start: 145470, Stop: 145676, Start Num: 3

Candidate Starts for Talia1610_212:

(Start: 3 @145470 has 7 MA's), (11, 145572), (19, 145629),

Gene: WaddleDee_202 Start: 147972, Stop: 148184, Start Num: 4

Candidate Starts for WaddleDee_202:

(Start: 4 @147972 has 4 MA's), (16, 148101), (18, 148134), (19, 148137),