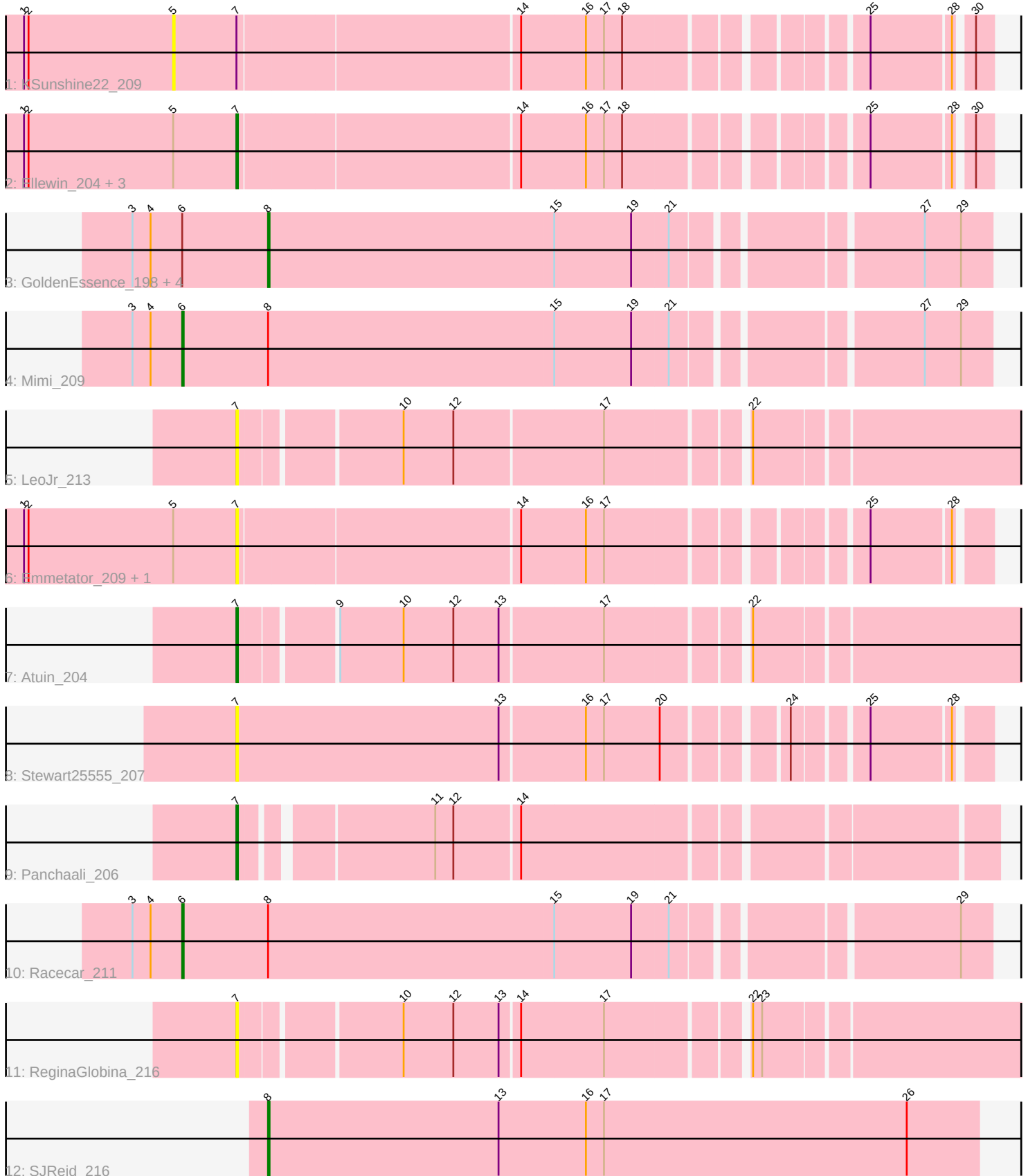


Pham 331254



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 331254 Report

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

Pham number 331254 has 20 members, 8 are drafts.

Phages represented in each track:

- Track 1 : KSunshine22_209
- Track 2 : Ellewin_204, BooTeria_204, DunneganBoMo_206, WaddleDee_201
- Track 3 : GoldenEssence_198, FrostedClock_213, Talia1610_211, Bloom_214, Patbob_207
- Track 4 : Mimi_209
- Track 5 : LeoJr_213
- Track 6 : Emmetator_209, Artu_207
- Track 7 : Atuin_204
- Track 8 : Stewart25555_207
- Track 9 : Panchaali_206
- Track 10 : Racecar_211
- Track 11 : ReginaGlobina_216
- Track 12 : 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 7, it was called in 6 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artu_207, Atuin_204, BooTeria_204, DunneganBoMo_206, Ellewin_204, Emmetator_209, LeoJr_213, Panchaali_206, ReginaGlobina_216, Stewart25555_207, WaddleDee_201,

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

- KSunshine22_209,

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

- Bloom_214, FrostedClock_213, GoldenEssence_198, Mimi_209, Patbob_207, Racecar_211, SJReid_216, Talia1610_211,

Summary by start number:

Start 5:

- Found in 7 of 20 (35.0%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: KSunshine22_209 (FC),

Start 6:

- Found in 7 of 20 (35.0%) of genes in pham
- Manual Annotations of this start: 2 of 12
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Mimi_209 (FC), Racecar_211 (FC),

Start 7:

- Found in 12 of 20 (60.0%) of genes in pham
- Manual Annotations of this start: 6 of 12
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Artu_207 (FC), Atuin_204 (FC), BooTeria_204 (FC), DunneganBoMo_206 (FC), Ellewin_204 (FC), Emmetator_209 (FC), LeoJr_213 (FC), Panchaali_206 (FC), ReginaGlobina_216 (FC), Stewart2555_207 (FC), WaddleDee_201 (FC),

Start 8:

- Found in 8 of 20 (40.0%) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Bloom_214 (FC), FrostedClock_213 (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 6 was manually annotated 2 times for cluster FC.
- Start number 7 was manually annotated 6 times for cluster FC.
- Start number 8 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: Artu_207 Start: 150040, Stop: 150492, Start Num: 7

Candidate Starts for Artu_207:

(1, 149899), (2, 149902), (5, 149998), (Start: 7 @150040 has 6 MA's), (14, 150220), (16, 150262), (17, 150274), (25, 150421), (28, 150472),

Gene: Atuin_204 Start: 143224, Stop: 143715, Start Num: 7

Candidate Starts for Atuin_204:

(Start: 7 @143224 has 6 MA's), (9, 143281), (10, 143323), (12, 143356), (13, 143386), (17, 143452), (22, 143536),

Gene: Bloom_214 Start: 145192, Stop: 145647, Start Num: 8

Candidate Starts for Bloom_214:

(3, 145102), (4, 145114), (Start: 6 @145135 has 2 MA's), (Start: 8 @145192 has 4 MA's), (15, 145381), (19, 145432), (21, 145456), (27, 145603), (29, 145627),

Gene: BooTeria_204 Start: 149550, Stop: 150002, Start Num: 7

Candidate Starts for BooTeria_204:

(1, 149409), (2, 149412), (5, 149508), (Start: 7 @149550 has 6 MA's), (14, 149730), (16, 149772), (17, 149784), (18, 149796), (25, 149931), (28, 149982), (30, 149991),

Gene: DunneganBoMo_206 Start: 149014, Stop: 149466, Start Num: 7

Candidate Starts for DunneganBoMo_206:

(1, 148873), (2, 148876), (5, 148972), (Start: 7 @149014 has 6 MA's), (14, 149194), (16, 149236), (17, 149248), (18, 149260), (25, 149395), (28, 149446), (30, 149455),

Gene: Ellewin_204 Start: 148281, Stop: 148733, Start Num: 7

Candidate Starts for Ellewin_204:

(1, 148140), (2, 148143), (5, 148239), (Start: 7 @148281 has 6 MA's), (14, 148461), (16, 148503), (17, 148515), (18, 148527), (25, 148662), (28, 148713), (30, 148722),

Gene: Emmetator_209 Start: 148410, Stop: 148862, Start Num: 7

Candidate Starts for Emmetator_209:

(1, 148269), (2, 148272), (5, 148368), (Start: 7 @148410 has 6 MA's), (14, 148590), (16, 148632), (17, 148644), (25, 148791), (28, 148842),

Gene: FrostedClock_213 Start: 145112, Stop: 145567, Start Num: 8

Candidate Starts for FrostedClock_213:

(3, 145022), (4, 145034), (Start: 6 @145055 has 2 MA's), (Start: 8 @145112 has 4 MA's), (15, 145301), (19, 145352), (21, 145376), (27, 145523), (29, 145547),

Gene: GoldenEssence_198 Start: 139168, Stop: 139623, Start Num: 8

Candidate Starts for GoldenEssence_198:

(3, 139078), (4, 139090), (Start: 6 @139111 has 2 MA's), (Start: 8 @139168 has 4 MA's), (15, 139357), (19, 139408), (21, 139432), (27, 139579), (29, 139603),

Gene: KSunshine22_209 Start: 147650, Stop: 148144, Start Num: 5

Candidate Starts for KSunshine22_209:

(1, 147551), (2, 147554), (5, 147650), (Start: 7 @147692 has 6 MA's), (14, 147872), (16, 147914), (17, 147926), (18, 147938), (25, 148073), (28, 148124), (30, 148133),

Gene: LeoJr_213 Start: 143395, Stop: 143886, Start Num: 7

Candidate Starts for LeoJr_213:

(Start: 7 @143395 has 6 MA's), (10, 143494), (12, 143527), (17, 143623), (22, 143707),

Gene: Mimi_209 Start: 144510, Stop: 145022, Start Num: 6

Candidate Starts for Mimi_209:

(3, 144477), (4, 144489), (Start: 6 @144510 has 2 MA's), (Start: 8 @144567 has 4 MA's), (15, 144756), (19, 144807), (21, 144831), (27, 144978), (29, 145002),

Gene: Panchaali_206 Start: 149616, Stop: 150074, Start Num: 7

Candidate Starts for Panchaali_206:

(Start: 7 @149616 has 6 MA's), (11, 149730), (12, 149742), (14, 149784),

Gene: Patbob_207 Start: 144965, Stop: 145420, Start Num: 8

Candidate Starts for Patbob_207:

(3, 144875), (4, 144887), (Start: 6 @144908 has 2 MA's), (Start: 8 @144965 has 4 MA's), (15, 145154), (19, 145205), (21, 145229), (27, 145376), (29, 145400),

Gene: Racecar_211 Start: 144890, Stop: 145402, Start Num: 6

Candidate Starts for Racecar_211:

(3, 144857), (4, 144869), (Start: 6 @144890 has 2 MA's), (Start: 8 @144947 has 4 MA's), (15, 145136), (19, 145187), (21, 145211), (29, 145382),

Gene: ReginaGlobina_216 Start: 144680, Stop: 145171, Start Num: 7

Candidate Starts for ReginaGlobina_216:

(Start: 7 @144680 has 6 MA's), (10, 144779), (12, 144812), (13, 144842), (14, 144854), (17, 144908), (22, 144992), (23, 144998),

Gene: SJReid_216 Start: 138571, Stop: 139041, Start Num: 8

Candidate Starts for SJReid_216:

(Start: 8 @138571 has 4 MA's), (13, 138724), (16, 138781), (17, 138793), (26, 138994),

Gene: Stewart25555_207 Start: 146925, Stop: 147383, Start Num: 7

Candidate Starts for Stewart25555_207:

(Start: 7 @146925 has 6 MA's), (13, 147099), (16, 147153), (17, 147165), (20, 147201), (24, 147270), (25, 147312), (28, 147363),

Gene: Talia1610_211 Start: 144976, Stop: 145431, Start Num: 8

Candidate Starts for Talia1610_211:

(3, 144886), (4, 144898), (Start: 6 @144919 has 2 MA's), (Start: 8 @144976 has 4 MA's), (15, 145165), (19, 145216), (21, 145240), (27, 145387), (29, 145411),

Gene: WaddleDee_201 Start: 147475, Stop: 147927, Start Num: 7

Candidate Starts for WaddleDee_201:

(1, 147334), (2, 147337), (5, 147433), (Start: 7 @147475 has 6 MA's), (14, 147655), (16, 147697), (17, 147709), (18, 147721), (25, 147856), (28, 147907), (30, 147916),