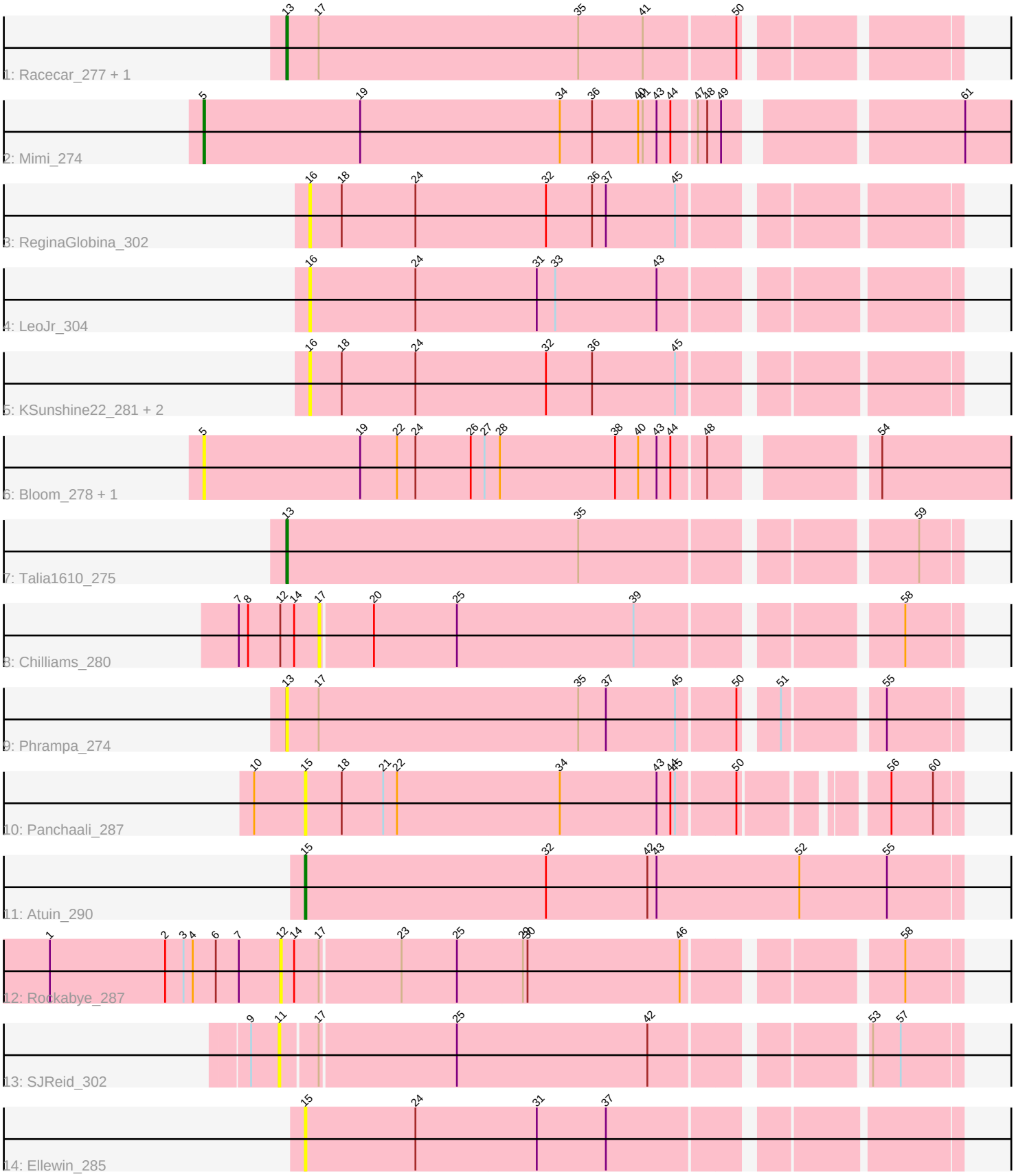
Pham 207245


1: Racecar_277 + 1
2: Mimi_274
3: ReginaGlobina_302
4: LeoJr_304
5: KSunshine22_281 + 2
6: Bloom_278 + 1
7: Talia1610_275
8: Chilliams_280
9: Phrampa_274
10: Panchaali_287
11: Atuin_290
12: Rockabye_287
13: SJReid_302
14: Ellewin_285

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 207245 Report

This analysis was run 02/22/25 on database version 588.

Pham number 207245 has 18 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Racecar_277, GoldenEssence_271
• Track 2 : Mimi_274
• Track 3 : ReginaGlobina_302
• Track 4 : LeoJr_304
• Track 5 : KSunshine22_281, WaddleDee_289, DunneganBoMo_290
• Track 6 : Bloom_278, Patbob_279
• Track 7 : Talia1610_275
• Track 8 : Chilliams_280
• Track 9 : Phrampa_274
• Track 10 : Panchaali_287
• Track 11 : Atuin_290
• Track 12 : Rockabye_287
• Track 13 : SJReid_302
• Track 14 : Ellewin_285

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

The start number called the most often in the published annotations is 13, it was called in 2 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• GoldenEssence_271, Phrampa_274, Racecar_277, Talia1610_275,

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

Genes that do not have the "Most Annotated" start:
• Atuin_290, Bloom_278, Chilliams_280, DunneganBoMo_290, Ellewin_285, KSunshine22_281, LeoJr_304, Mimi_274, Panchaali_287, Patbob_279, ReginaGlobina_302, Rockabye_287, SJReid_302, WaddleDee_289,

Summary by start number:

Start 5:

• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_278 (FC), Mimi_274 (FC), Patbob_279 (FC),

Start 11:
• Found in 1 of 18 (5.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_302 (FC),

Start 12:
• Found in 2 of 18 (11.1%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Rockabye_287 (FC),

Start 13:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 2 of 4
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GoldenEssence_271 (FC), Phrampa_274 (FC), Racecar_277 (FC), Talia1610_275 (FC),

Start 15:
• Found in 3 of 18 (16.7%) of genes in pham
• Manual Annotations of this start: 1 of 4
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_290 (FC), Ellewin_285 (FC), Panchaali_287 (FC),

Start 16:
• Found in 5 of 18 (27.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_290 (FC), KSunshine22_281 (FC), LeoJr_304 (FC), ReginaGlobina_302 (FC), WaddleDee_289 (FC),

Start 17:
• Found in 6 of 18 (33.3%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Chilliams_280 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:
•Start number 5 was manually annotated 1 time for cluster FC.
•Start number 13 was manually annotated 2 times for cluster FC.

•Start number 15 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Atuin_290 Start: 172986, Stop: 173411, Start Num: 15
Candidate Starts for Atuin_290:
(Start: 15 @172986 has 1 MA's), (32, 173142), (42, 173208), (43, 173214), (52, 173307), (55, 173364),

Gene: Bloom_278 Start: 169076, Stop: 169582, Start Num: 5
Candidate Starts for Bloom_278:
(Start: 5 @169076 has 1 MA's), (19, 169178), (22, 169202), (24, 169214), (26, 169250), (27, 169259), (28, 169268), (38, 169343), (40, 169358), (43, 169370), (44, 169379), (48, 169400), (54, 169490),

Gene: Chilliams_280 Start: 167840, Stop: 168226, Start Num: 17
Candidate Starts for Chilliams_280:
(7, 167789), (8, 167795), (12, 167816), (14, 167825), (17, 167840), (20, 167873), (25, 167927), (39, 168041), (58, 168191),

Gene: DunneganBoMo_290 Start: 174194, Stop: 174592, Start Num: 16
Candidate Starts for DunneganBoMo_290:
(16, 174194), (18, 174215), (24, 174263), (32, 174347), (36, 174377), (45, 174431),

Gene: Ellewin_285 Start: 173573, Stop: 173974, Start Num: 15
Candidate Starts for Ellewin_285:
(Start: 15 @173573 has 1 MA's), (24, 173645), (31, 173723), (37, 173768),

Gene: GoldenEssence_271 Start: 166279, Stop: 166689, Start Num: 13
Candidate Starts for GoldenEssence_271:
(Start: 13 @166279 has 2 MA's), (17, 166300), (35, 166468), (41, 166510), (50, 166567),

Gene: KSunshine22_281 Start: 172412, Stop: 172810, Start Num: 16
Candidate Starts for KSunshine22_281:
(16, 172412), (18, 172433), (24, 172481), (32, 172565), (36, 172595), (45, 172649),

Gene: LeoJr_304 Start: 173401, Stop: 173799, Start Num: 16
Candidate Starts for LeoJr_304:
(16, 173401), (24, 173470), (31, 173548), (33, 173560), (43, 173626),

Gene: Mimi_274 Start: 168451, Stop: 168963, Start Num: 5
Candidate Starts for Mimi_274:
(Start: 5 @168451 has 1 MA's), (19, 168553), (34, 168682), (36, 168703), (40, 168733), (41, 168736), (43, 168745), (44, 168754), (47, 168769), (48, 168775), (49, 168784), (61, 168919),

Gene: Panchaali_287 Start: 174205, Stop: 174603, Start Num: 15
Candidate Starts for Panchaali_287:
(10, 174172), (Start: 15 @174205 has 1 MA's), (18, 174229), (21, 174256), (22, 174265), (34, 174370), (43, 174433), (44, 174442), (45, 174445), (50, 174481), (56, 174559), (60, 174586),

Gene: Patbob_279 Start: 171060, Stop: 171566, Start Num: 5
Candidate Starts for Patbob_279:

(Start: 5 @171060 has 1 MA's), (19, 171162), (22, 171186), (24, 171198), (26, 171234), (27, 171243), (28, 171252), (38, 171327), (40, 171342), (43, 171354), (44, 171363), (48, 171384), (54, 171474),

Gene: Phrampa_274 Start: 171981, Stop: 172391, Start Num: 13
Candidate Starts for Phrampa_274:
(Start: 13 @171981 has 2 MA's), (17, 172002), (35, 172170), (37, 172188), (45, 172233), (50, 172269), (51, 172287), (55, 172344),

Gene: Racecar_277 Start: 169373, Stop: 169783, Start Num: 13
Candidate Starts for Racecar_277:
(Start: 13 @169373 has 2 MA's), (17, 169394), (35, 169562), (41, 169604), (50, 169661),

Gene: ReginaGlobina_302 Start: 173539, Stop: 173937, Start Num: 16
Candidate Starts for ReginaGlobina_302:
(16, 173539), (18, 173560), (24, 173608), (32, 173692), (36, 173722), (37, 173731), (45, 173776),

Gene: Rockabye_287 Start: 167857, Stop: 168267, Start Num: 12
Candidate Starts for Rockabye_287:
(1, 167707), (2, 167782), (3, 167794), (4, 167800), (6, 167815), (7, 167830), (12, 167857), (14, 167866), (17, 167881), (23, 167932), (25, 167968), (29, 168010), (30, 168013), (46, 168112), (58, 168232),

Gene: SJReid_302 Start: 169164, Stop: 169571, Start Num: 11
Candidate Starts for SJReid_302:
(9, 169146), (11, 169164), (17, 169185), (25, 169272), (42, 169395), (53, 169515), (57, 169533),

Gene: Talia1610_275 Start: 170280, Stop: 170690, Start Num: 13
Candidate Starts for Talia1610_275:
(Start: 13 @170280 has 2 MA's), (35, 170469), (59, 170664),

Gene: WaddleDee_289 Start: 172978, Stop: 173376, Start Num: 16
Candidate Starts for WaddleDee_289:
(16, 172978), (18, 172999), (24, 173047), (32, 173131), (36, 173161), (45, 173215),