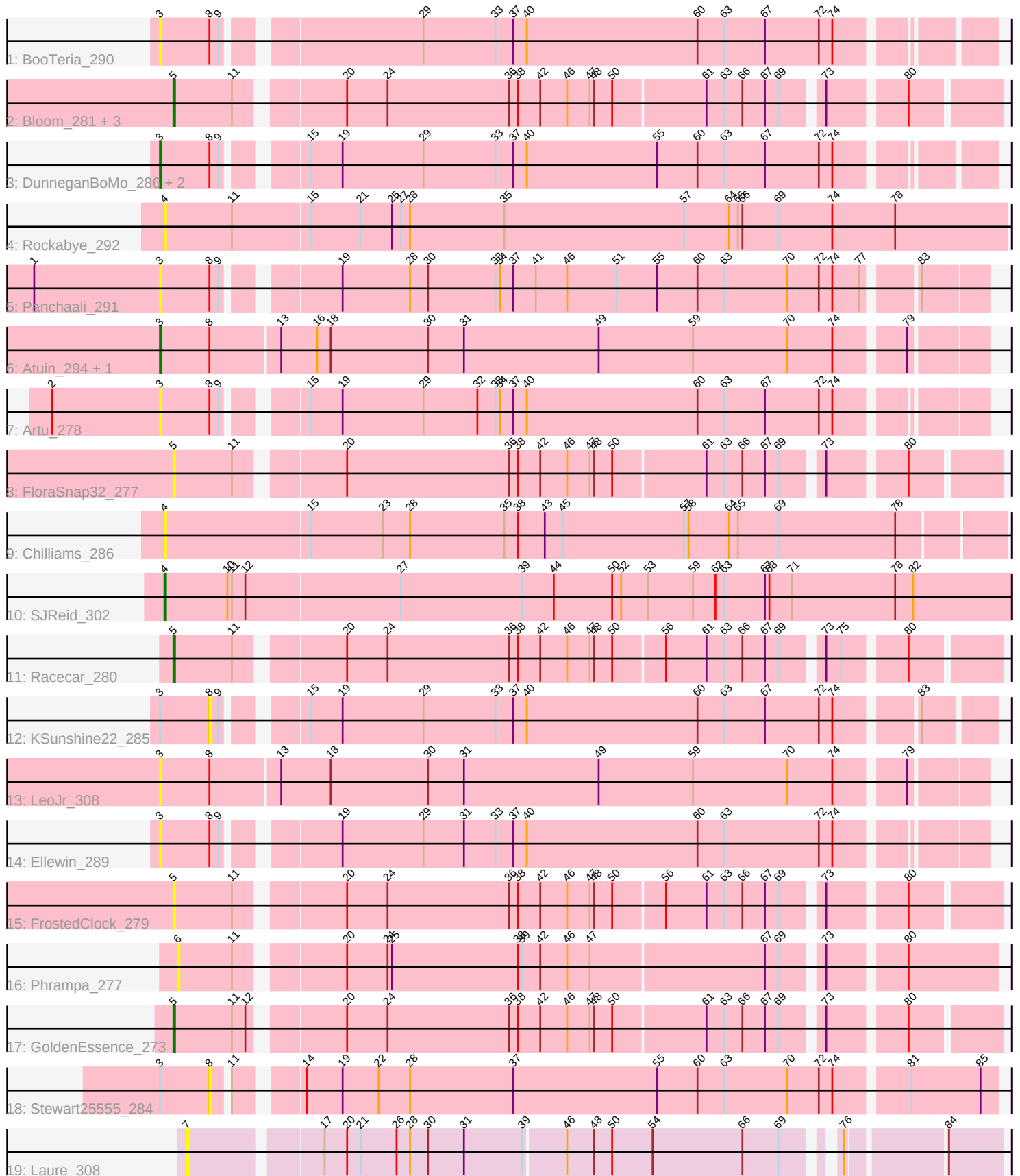


Pham 247386



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 247386 Report

This analysis was run 02/07/26 on database version 634.

Pham number 247386 has 25 members, 17 are drafts.

Phages represented in each track:

- Track 1 : BooTeria_290
- Track 2 : Bloom_281, Patbob_282, Mimi_277, Talia1610_278
- Track 3 : DunneganBoMo_286, Emmetator_285, WaddleDee_282
- Track 4 : Rockabye_292
- Track 5 : Panchaali_291
- Track 6 : Atuin_294, ReginaGlobina_306
- Track 7 : Artu_278
- Track 8 : FloraSnap32_277
- Track 9 : Chilliams_286
- Track 10 : SJReid_302
- Track 11 : Racecar_280
- Track 12 : KSunshine22_285
- Track 13 : LeoJr_308
- Track 14 : Ellewin_289
- Track 15 : FrostedClock_279
- Track 16 : Phrampa_277
- Track 17 : GoldenEssence_273
- Track 18 : Stewart25555_284
- Track 19 : Laure_308

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

The start number called the most often in the published annotations is 5, it was called in 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom_281, FloraSnap32_277, FrostedClock_279, GoldenEssence_273, Mimi_277, Patbob_282, Racecar_280, Talia1610_278,

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

-

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

- Artu_278, Atuin_294, BooTeria_290, Chilliams_286, DunneganBoMo_286, Ellewin_289, Emmetator_285, KSunshine22_285, Laure_308, LeoJr_308, Panchaali_291, Phrampa_277, ReginaGlobina_306, Rockabye_292, SJReid_302, Stewart25555_284, WaddleDee_282,

Summary by start number:

Start 3:

- Found in 12 of 25 (48.0%) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Artu_278 (FC), Atuin_294 (FC), BooTeria_290 (FC), DunneganBoMo_286 (FC), Ellewin_289 (FC), Emmetator_285 (FC), LeoJr_308 (FC), Panchaali_291 (FC), ReginaGlobina_306 (FC), WaddleDee_282 (FC),

Start 4:

- Found in 3 of 25 (12.0%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chilliams_286 (FC), Rockabye_292 (FC), SJReid_302 (FC),

Start 5:

- Found in 8 of 25 (32.0%) of genes in pham
- Manual Annotations of this start: 4 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom_281 (FC), FloraSnap32_277 (FC), FrostedClock_279 (FC), GoldenEssence_273 (FC), Mimi_277 (FC), Patbob_282 (FC), Racecar_280 (FC), Talia1610_278 (FC),

Start 6:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrampa_277 (FC),

Start 7:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Laure_308 (UNK),

Start 8:

- Found in 12 of 25 (48.0%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: KSunshine22_285 (FC), Stewart25555_284 (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 3 times for cluster FC.
- Start number 4 was manually annotated 1 time for cluster FC.
- Start number 5 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: Artu_278 Start: 175613, Stop: 176128, Start Num: 3

Candidate Starts for Artu_278:

(2, 175541), (Start: 3 @175613 has 3 MA's), (8, 175646), (9, 175652), (15, 175694), (19, 175715), (29, 175769), (32, 175805), (33, 175817), (34, 175820), (37, 175829), (40, 175838), (60, 175952), (63, 175970), (67, 175997), (72, 176033), (74, 176042),

Gene: Atuin_294 Start: 174462, Stop: 174995, Start Num: 3

Candidate Starts for Atuin_294:

(Start: 3 @174462 has 3 MA's), (8, 174495), (13, 174540), (16, 174564), (18, 174573), (30, 174636), (31, 174660), (49, 174750), (59, 174813), (70, 174876), (74, 174906), (79, 174948),

Gene: Bloom_281 Start: 170408, Stop: 170920, Start Num: 5

Candidate Starts for Bloom_281:

(Start: 5 @170408 has 4 MA's), (11, 170447), (20, 170510), (24, 170537), (36, 170618), (38, 170624), (42, 170639), (46, 170657), (47, 170672), (48, 170675), (50, 170687), (61, 170747), (63, 170759), (66, 170771), (67, 170786), (69, 170795), (73, 170819), (80, 170864),

Gene: BooTeria_290 Start: 175443, Stop: 175961, Start Num: 3

Candidate Starts for BooTeria_290:

(Start: 3 @175443 has 3 MA's), (8, 175476), (9, 175482), (29, 175599), (33, 175647), (37, 175659), (40, 175668), (60, 175782), (63, 175800), (67, 175827), (72, 175863), (74, 175872),

Gene: Chilliams_286 Start: 169605, Stop: 170159, Start Num: 4

Candidate Starts for Chilliams_286:

(Start: 4 @169605 has 1 MA's), (15, 169701), (23, 169749), (28, 169767), (35, 169830), (38, 169839), (43, 169857), (45, 169869), (57, 169950), (58, 169953), (64, 169980), (65, 169986), (69, 170013), (78, 170091),

Gene: DunneganBoMo_286 Start: 175945, Stop: 176463, Start Num: 3

Candidate Starts for DunneganBoMo_286:

(Start: 3 @175945 has 3 MA's), (8, 175978), (9, 175984), (15, 176026), (19, 176047), (29, 176101), (33, 176149), (37, 176161), (40, 176170), (55, 176257), (60, 176284), (63, 176302), (67, 176329), (72, 176365), (74, 176374),

Gene: Ellewin_289 Start: 175375, Stop: 175890, Start Num: 3

Candidate Starts for Ellewin_289:

(Start: 3 @175375 has 3 MA's), (8, 175408), (9, 175414), (19, 175477), (29, 175531), (31, 175558), (33, 175579), (37, 175591), (40, 175600), (60, 175714), (63, 175732), (72, 175795), (74, 175804),

Gene: Emmetator_285 Start: 174834, Stop: 175352, Start Num: 3

Candidate Starts for Emmetator_285:

(Start: 3 @174834 has 3 MA's), (8, 174867), (9, 174873), (15, 174915), (19, 174936), (29, 174990), (33, 175038), (37, 175050), (40, 175059), (55, 175146), (60, 175173), (63, 175191), (67, 175218), (72, 175254), (74, 175263),

Gene: FloraSnap32_277 Start: 171176, Stop: 171688, Start Num: 5

Candidate Starts for FloraSnap32_277:

(Start: 5 @171176 has 4 MA's), (11, 171215), (20, 171278), (36, 171386), (38, 171392), (42, 171407), (46, 171425), (47, 171440), (48, 171443), (50, 171455), (61, 171515), (63, 171527), (66, 171539), (67, 171554), (69, 171563), (73, 171587), (80, 171632),

Gene: FrostedClock_279 Start: 170940, Stop: 171452, Start Num: 5

Candidate Starts for FrostedClock_279:

(Start: 5 @170940 has 4 MA's), (11, 170979), (20, 171042), (24, 171069), (36, 171150), (38, 171156), (42, 171171), (46, 171189), (47, 171204), (48, 171207), (50, 171219), (56, 171252), (61, 171279), (63, 171291), (66, 171303), (67, 171318), (69, 171327), (73, 171351), (80, 171396),

Gene: GoldenEssence_273 Start: 167627, Stop: 168139, Start Num: 5

Candidate Starts for GoldenEssence_273:

(Start: 5 @167627 has 4 MA's), (11, 167666), (12, 167675), (20, 167729), (24, 167756), (36, 167837), (38, 167843), (42, 167858), (46, 167876), (47, 167891), (48, 167894), (50, 167906), (61, 167966), (63, 167978), (66, 167990), (67, 168005), (69, 168014), (73, 168038), (80, 168083),

Gene: KSunshine22_285 Start: 174196, Stop: 174684, Start Num: 8

Candidate Starts for KSunshine22_285:

(Start: 3 @174163 has 3 MA's), (8, 174196), (9, 174202), (15, 174244), (19, 174265), (29, 174319), (33, 174367), (37, 174379), (40, 174388), (60, 174502), (63, 174520), (67, 174547), (72, 174583), (74, 174592), (83, 174640),

Gene: Laure_308 Start: 165373, Stop: 165876, Start Num: 7

Candidate Starts for Laure_308:

(7, 165373), (17, 165454), (20, 165469), (21, 165478), (26, 165502), (28, 165511), (30, 165523), (31, 165547), (39, 165586), (46, 165613), (48, 165631), (50, 165643), (54, 165670), (66, 165730), (69, 165754), (76, 165781), (84, 165841),

Gene: LeoJr_308 Start: 175177, Stop: 175710, Start Num: 3

Candidate Starts for LeoJr_308:

(Start: 3 @175177 has 3 MA's), (8, 175210), (13, 175255), (18, 175288), (30, 175351), (31, 175375), (49, 175465), (59, 175528), (70, 175591), (74, 175621), (79, 175663),

Gene: Mimi_277 Start: 169804, Stop: 170316, Start Num: 5

Candidate Starts for Mimi_277:

(Start: 5 @169804 has 4 MA's), (11, 169843), (20, 169906), (24, 169933), (36, 170014), (38, 170020), (42, 170035), (46, 170053), (47, 170068), (48, 170071), (50, 170083), (61, 170143), (63, 170155), (66, 170167), (67, 170182), (69, 170191), (73, 170215), (80, 170260),

Gene: Panchaali_291 Start: 175674, Stop: 176192, Start Num: 3

Candidate Starts for Panchaali_291:

(1, 175590), (Start: 3 @175674 has 3 MA's), (8, 175707), (9, 175713), (19, 175776), (28, 175821), (30, 175833), (33, 175878), (34, 175881), (37, 175890), (41, 175905), (46, 175926), (51, 175959), (55, 175986), (60, 176013), (63, 176031), (70, 176073), (72, 176094), (74, 176103), (77, 176121), (83, 176151),

Gene: Patbob_282 Start: 172392, Stop: 172904, Start Num: 5

Candidate Starts for Patbob_282:

(Start: 5 @172392 has 4 MA's), (11, 172431), (20, 172494), (24, 172521), (36, 172602), (38, 172608), (42, 172623), (46, 172641), (47, 172656), (48, 172659), (50, 172671), (61, 172731), (63, 172743), (66, 172755), (67, 172770), (69, 172779), (73, 172803), (80, 172848),

Gene: Phrampa_277 Start: 173338, Stop: 173850, Start Num: 6

Candidate Starts for Phrampa_277:

(6, 173338), (11, 173374), (20, 173437), (24, 173464), (25, 173467), (38, 173551), (39, 173554), (42, 173566), (46, 173584), (47, 173599), (67, 173713), (69, 173722), (73, 173746), (80, 173791),

Gene: Racecar_280 Start: 170642, Stop: 171154, Start Num: 5

Candidate Starts for Racecar_280:

(Start: 5 @170642 has 4 MA's), (11, 170681), (20, 170744), (24, 170771), (36, 170852), (38, 170858), (42, 170873), (46, 170891), (47, 170906), (48, 170909), (50, 170921), (56, 170954), (61, 170981), (63, 170993), (66, 171005), (67, 171020), (69, 171029), (73, 171053), (75, 171062), (80, 171098),

Gene: ReginaGlobina_306 Start: 175321, Stop: 175854, Start Num: 3

Candidate Starts for ReginaGlobina_306:

(Start: 3 @175321 has 3 MA's), (8, 175354), (13, 175399), (16, 175423), (18, 175432), (30, 175495), (31, 175519), (49, 175609), (59, 175672), (70, 175735), (74, 175765), (79, 175807),

Gene: Rockabye_292 Start: 169497, Stop: 170057, Start Num: 4

Candidate Starts for Rockabye_292:

(Start: 4 @169497 has 1 MA's), (11, 169542), (15, 169593), (21, 169626), (25, 169647), (27, 169653), (28, 169659), (35, 169722), (57, 169842), (64, 169872), (65, 169878), (66, 169881), (69, 169905), (74, 169941), (78, 169983),

Gene: SJReid_302 Start: 170349, Stop: 170912, Start Num: 4

Candidate Starts for SJReid_302:

(Start: 4 @170349 has 1 MA's), (10, 170391), (11, 170394), (12, 170403), (27, 170505), (39, 170586), (44, 170607), (50, 170646), (52, 170652), (53, 170670), (59, 170700), (62, 170715), (63, 170721), (67, 170748), (68, 170751), (71, 170766), (78, 170835), (82, 170847),

Gene: Stewart25555_284 Start: 174948, Stop: 175445, Start Num: 8

Candidate Starts for Stewart25555_284:

(Start: 3 @174915 has 3 MA's), (8, 174948), (11, 174957), (14, 174993), (19, 175017), (22, 175041), (28, 175062), (37, 175131), (55, 175227), (60, 175254), (63, 175272), (70, 175314), (72, 175335), (74, 175344), (81, 175389), (85, 175434),

Gene: Talia1610_278 Start: 171613, Stop: 172125, Start Num: 5

Candidate Starts for Talia1610_278:

(Start: 5 @171613 has 4 MA's), (11, 171652), (20, 171715), (24, 171742), (36, 171823), (38, 171829), (42, 171844), (46, 171862), (47, 171877), (48, 171880), (50, 171892), (61, 171952), (63, 171964), (66, 171976), (67, 171991), (69, 172000), (73, 172024), (80, 172069),

Gene: WaddleDee_282 Start: 174729, Stop: 175247, Start Num: 3

Candidate Starts for WaddleDee_282:

(Start: 3 @174729 has 3 MA's), (8, 174762), (9, 174768), (15, 174810), (19, 174831), (29, 174885), (33, 174933), (37, 174945), (40, 174954), (55, 175041), (60, 175068), (63, 175086), (67, 175113), (72, 175149), (74, 175158),