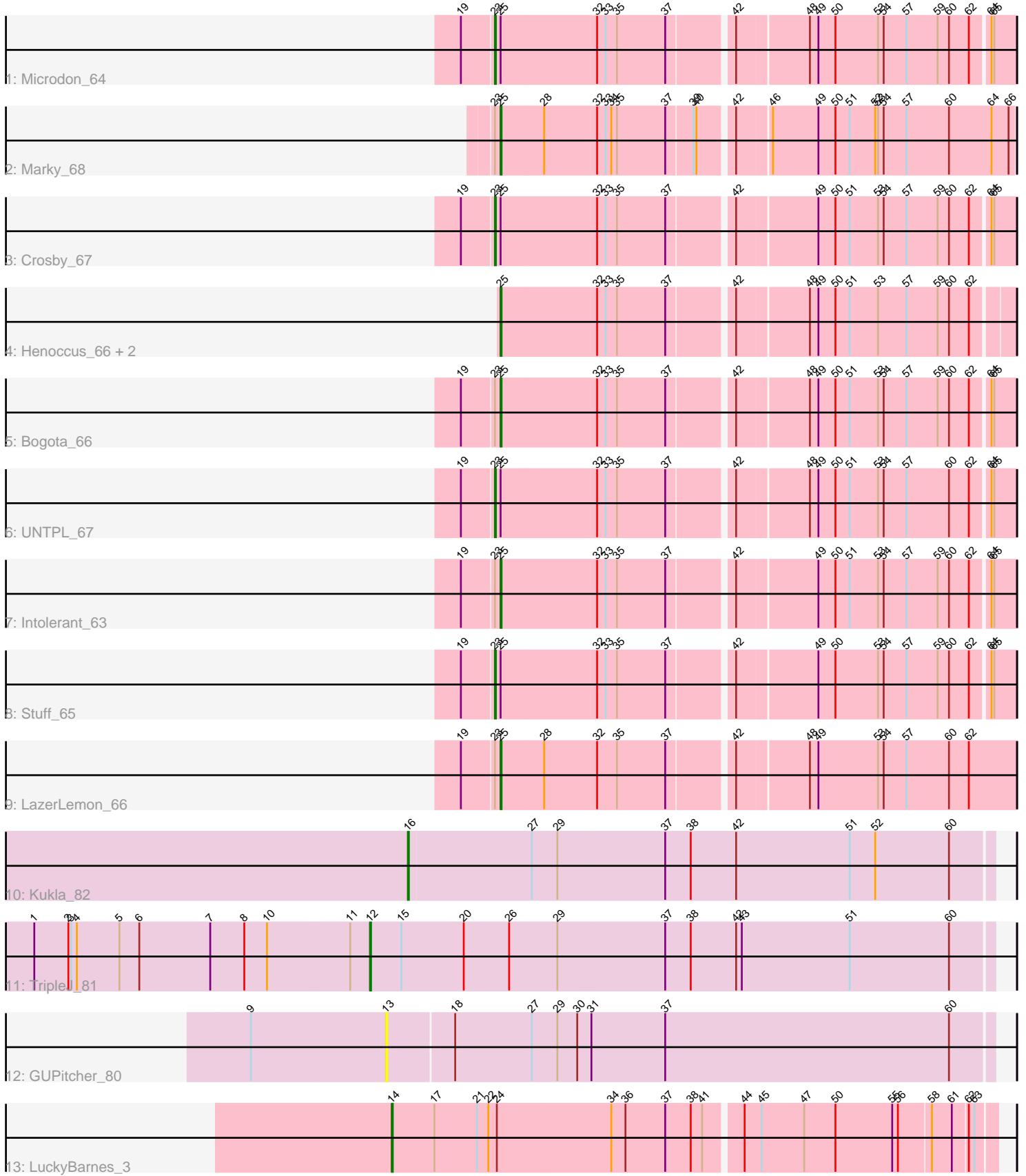


Pham 203413



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 203413 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203413 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Microdon_64
- Track 2 : Marky_68
- Track 3 : Crosby_67
- Track 4 : Henoccus_66, JackieB_66, Araceli_65
- Track 5 : Bogota_66
- Track 6 : UNTPL_67
- Track 7 : Intolerant_63
- Track 8 : Stuff_65
- Track 9 : LazerLemon_66
- Track 10 : Kukla_82
- Track 11 : TripleJ_81
- Track 12 : GUPitcher_80
- Track 13 : LuckyBarnes_3

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

The start number called the most often in the published annotations is 25, it was called in 7 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Araceli_65, Bogota_66, Henoccus_66, Intolerant_63, JackieB_66, LazerLemon_66, Marky_68,

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

- Crosby_67, Microdon_64, Stuff_65, UNTPL_67,

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

- GUPitcher_80, Kukla_82, LuckyBarnes_3, TripleJ_81,

Summary by start number:

Start 12:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 14

- Called 100.0% of time when present
- Phage (with cluster) where this start called: TripleJ_81 (FJ),

Start 13:

- Found in 1 of 15 (6.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GUPitcher_80 (FJ),

Start 14:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LuckyBarnes_3 (singleton),

Start 16:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kukla_82 (FJ),

Start 23:

- Found in 8 of 15 (53.3%) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Crosby_67 (BH), Microdon_64 (BH), Stuff_65 (BH), UNTPL_67 (BH),

Start 25:

- Found in 11 of 15 (73.3%) of genes in pham
- Manual Annotations of this start: 7 of 14
- Called 63.6% of time when present
- Phage (with cluster) where this start called: Araceli_65 (BH), Bogota_66 (BH), Henoccus_66 (BH), Intolerant_63 (BH), JackieB_66 (BH), LazerLemon_66 (BH), Marky_68 (BH),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, BH, FJ,

Info for manual annotations of cluster BH:

- Start number 23 was manually annotated 4 times for cluster BH.
- Start number 25 was manually annotated 7 times for cluster BH.

Info for manual annotations of cluster FJ:

- Start number 12 was manually annotated 1 time for cluster FJ.
- Start number 16 was manually annotated 1 time for cluster FJ.

Gene Information:

Gene: Araceli_65 Start: 47314, Stop: 47829, Start Num: 25

Candidate Starts for Araceli_65:

(Start: 25 @47314 has 7 MA's), (32, 47413), (33, 47422), (35, 47434), (37, 47485), (42, 47548), (48, 47620), (49, 47629), (50, 47647), (51, 47662), (53, 47692), (57, 47722), (59, 47755), (60, 47767), (62, 47788),

Gene: Bogota_66 Start: 47563, Stop: 48081, Start Num: 25

Candidate Starts for Bogota_66:

(19, 47524), (Start: 23 @47557 has 4 MA's), (Start: 25 @47563 has 7 MA's), (32, 47662), (33, 47671), (35, 47683), (37, 47734), (42, 47797), (48, 47869), (49, 47878), (50, 47896), (51, 47911), (53, 47941), (54, 47947), (57, 47971), (59, 48004), (60, 48016), (62, 48037), (64, 48055), (65, 48058),

Gene: Crosby_67 Start: 47571, Stop: 48095, Start Num: 23

Candidate Starts for Crosby_67:

(19, 47538), (Start: 23 @47571 has 4 MA's), (Start: 25 @47577 has 7 MA's), (32, 47676), (33, 47685), (35, 47697), (37, 47748), (42, 47811), (49, 47892), (50, 47910), (51, 47925), (53, 47955), (54, 47961), (57, 47985), (59, 48018), (60, 48030), (62, 48051), (64, 48069), (65, 48072),

Gene: GUPitcher_80 Start: 44251, Stop: 44880, Start Num: 13

Candidate Starts for GUPitcher_80:

(9, 44110), (13, 44251), (18, 44320), (27, 44401), (29, 44428), (30, 44449), (31, 44461), (37, 44539), (60, 44839),

Gene: Henoccus_66 Start: 47326, Stop: 47841, Start Num: 25

Candidate Starts for Henoccus_66:

(Start: 25 @47326 has 7 MA's), (32, 47425), (33, 47434), (35, 47446), (37, 47497), (42, 47560), (48, 47632), (49, 47641), (50, 47659), (51, 47674), (53, 47704), (57, 47734), (59, 47767), (60, 47779), (62, 47800),

Gene: Intolerant_63 Start: 47268, Stop: 47786, Start Num: 25

Candidate Starts for Intolerant_63:

(19, 47229), (Start: 23 @47262 has 4 MA's), (Start: 25 @47268 has 7 MA's), (32, 47367), (33, 47376), (35, 47388), (37, 47439), (42, 47502), (49, 47583), (50, 47601), (51, 47616), (53, 47646), (54, 47652), (57, 47676), (59, 47709), (60, 47721), (62, 47742), (64, 47760), (65, 47763),

Gene: JackieB_66 Start: 47164, Stop: 47679, Start Num: 25

Candidate Starts for JackieB_66:

(Start: 25 @47164 has 7 MA's), (32, 47263), (33, 47272), (35, 47284), (37, 47335), (42, 47398), (48, 47470), (49, 47479), (50, 47497), (51, 47512), (53, 47542), (57, 47572), (59, 47605), (60, 47617), (62, 47638),

Gene: Kukla_82 Start: 44547, Stop: 45155, Start Num: 16

Candidate Starts for Kukla_82:

(Start: 16 @44547 has 1 MA's), (27, 44676), (29, 44703), (37, 44814), (38, 44841), (42, 44889), (51, 45009), (52, 45036), (60, 45114),

Gene: LazerLemon_66 Start: 48016, Stop: 48540, Start Num: 25

Candidate Starts for LazerLemon_66:

(19, 47977), (Start: 23 @48010 has 4 MA's), (Start: 25 @48016 has 7 MA's), (28, 48061), (32, 48115), (35, 48136), (37, 48187), (42, 48250), (48, 48322), (49, 48331), (53, 48394), (54, 48400), (57, 48424), (60, 48469), (62, 48490),

Gene: LuckyBarnes_3 Start: 726, Stop: 1346, Start Num: 14

Candidate Starts for LuckyBarnes_3:

(Start: 14 @726 has 1 MA's), (17, 771), (21, 816), (22, 828), (24, 837), (34, 957), (36, 972), (37, 1014), (38, 1041), (41, 1053), (44, 1089), (45, 1107), (47, 1152), (50, 1185), (55, 1245), (56, 1251), (58, 1284), (61, 1305), (62, 1320), (63, 1326),

Gene: Marky_68 Start: 47686, Stop: 48207, Start Num: 25

Candidate Starts for Marky_68:

(Start: 23 @47680 has 4 MA's), (Start: 25 @47686 has 7 MA's), (28, 47731), (32, 47785), (33, 47794), (34, 47800), (35, 47806), (37, 47857), (39, 47884), (40, 47887), (42, 47920), (46, 47953), (49, 48001), (50, 48019), (51, 48034), (52, 48061), (53, 48064), (54, 48070), (57, 48094), (60, 48139), (64, 48184), (66, 48202),

Gene: Microdon_64 Start: 46831, Stop: 47355, Start Num: 23

Candidate Starts for Microdon_64:

(19, 46798), (Start: 23 @46831 has 4 MA's), (Start: 25 @46837 has 7 MA's), (32, 46936), (33, 46945), (35, 46957), (37, 47008), (42, 47071), (48, 47143), (49, 47152), (50, 47170), (53, 47215), (54, 47221), (57, 47245), (59, 47278), (60, 47290), (62, 47311), (64, 47329), (65, 47332),

Gene: Stuff_65 Start: 47538, Stop: 48062, Start Num: 23

Candidate Starts for Stuff_65:

(19, 47505), (Start: 23 @47538 has 4 MA's), (Start: 25 @47544 has 7 MA's), (32, 47643), (33, 47652), (35, 47664), (37, 47715), (42, 47778), (49, 47859), (50, 47877), (53, 47922), (54, 47928), (57, 47952), (59, 47985), (60, 47997), (62, 48018), (64, 48036), (65, 48039),

Gene: TripleJ_81 Start: 43166, Stop: 43816, Start Num: 12

Candidate Starts for TripleJ_81:

(1, 42815), (2, 42851), (3, 42854), (4, 42860), (5, 42905), (6, 42926), (7, 43001), (8, 43037), (10, 43061), (11, 43145), (Start: 12 @43166 has 1 MA's), (15, 43199), (20, 43265), (26, 43313), (29, 43364), (37, 43475), (38, 43502), (42, 43550), (43, 43556), (51, 43670), (60, 43775),

Gene: UNTPL_67 Start: 47592, Stop: 48116, Start Num: 23

Candidate Starts for UNTPL_67:

(19, 47559), (Start: 23 @47592 has 4 MA's), (Start: 25 @47598 has 7 MA's), (32, 47697), (33, 47706), (35, 47718), (37, 47769), (42, 47832), (48, 47904), (49, 47913), (50, 47931), (51, 47946), (53, 47976), (54, 47982), (57, 48006), (60, 48051), (62, 48072), (64, 48090), (65, 48093),