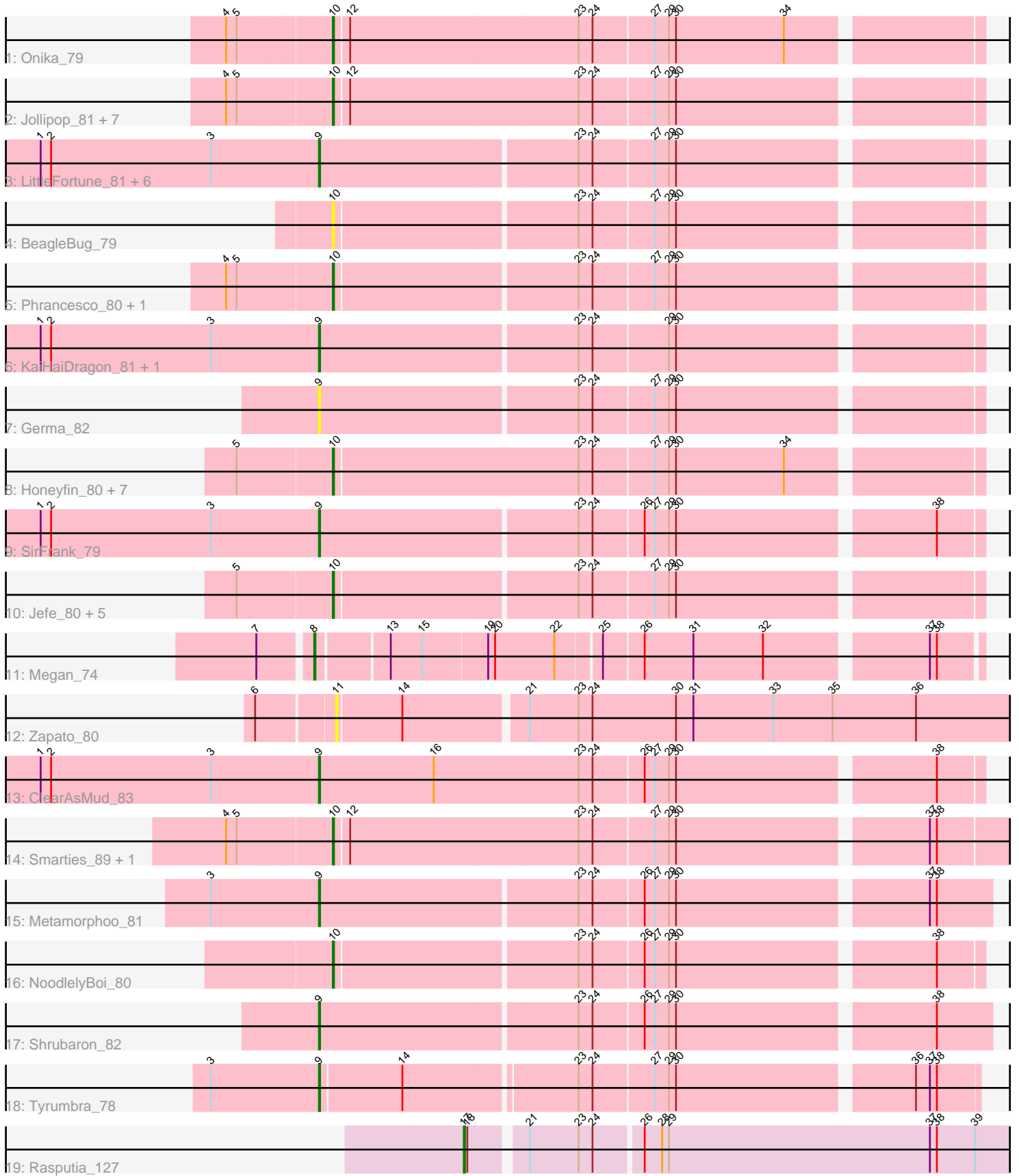


Pham 308796



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 308796 Report

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

Pham number 308796 has 47 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Onika_79
- Track 2 : Jollipop_81, Piperis_81, Paschalis_80, Glorp_81, Ganandorf_78, Selwyn23_81, Busephilis_79, Antares_80
- Track 3 : LittleFortune_81, CrazyRich_78, PhedwardCullen_78, Crisis_81, Savannah_79, Pulchra_82, Lucretia_80
- Track 4 : BeagleBug_79
- Track 5 : Phrancesco_80, Phorgeous_80
- Track 6 : KaiHaiDragon_81, EarickHC_81
- Track 7 : Germa_82
- Track 8 : Honeyfin_80, Ramiel05_79, Kowalski_79, Rockwell_79, Shotgun_79, Hermeonysus_80, Quhwah_84, BrazzalePHS_79
- Track 9 : SirFrank_79
- Track 10 : Jefe_80, Cranjiss_81, PiperSansNom_81, Scumberland_82, Yeti_81, PierreOrion_79
- Track 11 : Megan_74
- Track 12 : Zapato_80
- Track 13 : ClearAsMud_83
- Track 14 : Smarties_89, Ariadne_89
- Track 15 : Metamorphoo_81
- Track 16 : NoodlelyBoi_80
- Track 17 : Shrubaron_82
- Track 18 : Tyumbra_78
- Track 19 : Rasputia_127

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

The start number called the most often in the published annotations is 10, it was called in 27 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_80, Ariadne_89, BeagleBug_79, BrazzalePHS_79, Busephilis_79, Cranjiss_81, Ganandorf_78, Glorp_81, Hermeonysus_80, Honeyfin_80, Jefe_80, Jollipop_81, Kowalski_79, NoodlelyBoi_80, Onika_79, Paschalis_80, Phorgeous_80, Phrancesco_80, PierreOrion_79, PiperSansNom_81, Piperis_81, Quhwah_84,

Ramiel05_79, Rockwell_79, Scumberland_82, Selwyn23_81, Shotgun_79, Smarties_89, Yeti_81,

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

-

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

- ClearAsMud_83, CrazyRich_78, Crisis_81, EarickHC_81, Germa_82, KaiHaiDragon_81, LittleFortune_81, Lucretia_80, Megan_74, Metamorphoo_81, PhedwardCullen_78, Pulchra_82, Rasputia_127, Savannah_79, Shrubaron_82, SirFrank_79, Tyrumbra_78, Zapato_80,

Summary by start number:

Start 8:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_74 (EC),

Start 9:

- Found in 15 of 47 (31.9%) of genes in pham
- Manual Annotations of this start: 13 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ClearAsMud_83 (EC), CrazyRich_78 (EC), Crisis_81 (EC), EarickHC_81 (EC), Germa_82 (EC), KaiHaiDragon_81 (EC), LittleFortune_81 (EC), Lucretia_80 (EC), Metamorphoo_81 (EC), PhedwardCullen_78 (EC), Pulchra_82 (EC), Savannah_79 (EC), Shrubaron_82 (EC), SirFrank_79 (EC), Tyrumbra_78 (EC),

Start 10:

- Found in 29 of 47 (61.7%) of genes in pham
- Manual Annotations of this start: 27 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_80 (EC), Ariadne_89 (EC), BeagleBug_79 (EC), BrazzalePHS_79 (EC), Busephilis_79 (EC), Cranjis_81 (EC), Ganandorf_78 (EC), Glorp_81 (EC), Hermeonysus_80 (EC), Honeyfin_80 (EC), Jefe_80 (EC), Jollipop_81 (EC), Kowalski_79 (EC), NoodlelyBoi_80 (EC), Onika_79 (EC), Paschalis_80 (EC), Phorgeous_80 (EC), Phrancesco_80 (EC), PierreOrion_79 (EC), PiperSansNom_81 (EC), Piperis_81 (EC), Quhwah_84 (EC), Ramiel05_79 (EC), Rockwell_79 (EC), Scumberland_82 (EC), Selwyn23_81 (EC), Shotgun_79 (EC), Smarties_89 (EC), Yeti_81 (EC),

Start 11:

- Found in 1 of 47 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zapato_80 (EC),

Start 17:

- Found in 1 of 47 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Rasputia_127 (GC),

Summary by clusters:

There are 2 clusters represented in this pham: GC, EC,

Info for manual annotations of cluster EC:

- Start number 8 was manually annotated 1 time for cluster EC.
- Start number 9 was manually annotated 13 times for cluster EC.
- Start number 10 was manually annotated 27 times for cluster EC.

Info for manual annotations of cluster GC:

- Start number 17 was manually annotated 1 time for cluster GC.

Gene Information:

Gene: Antares_80 Start: 46864, Stop: 47400, Start Num: 10

Candidate Starts for Antares_80:

(4, 46777), (5, 46786), (Start: 10 @46864 has 27 MA's), (12, 46876), (23, 47071), (24, 47083), (27, 47134), (29, 47146), (30, 47152),

Gene: Ariadne_89 Start: 47748, Stop: 48305, Start Num: 10

Candidate Starts for Ariadne_89:

(4, 47661), (5, 47670), (Start: 10 @47748 has 27 MA's), (12, 47760), (23, 47955), (24, 47967), (27, 48018), (29, 48030), (30, 48036), (37, 48240), (38, 48246),

Gene: BeagleBug_79 Start: 46673, Stop: 47203, Start Num: 10

Candidate Starts for BeagleBug_79:

(Start: 10 @46673 has 27 MA's), (23, 46874), (24, 46886), (27, 46937), (29, 46949), (30, 46955),

Gene: BrazzalePHS_79 Start: 46662, Stop: 47198, Start Num: 10

Candidate Starts for BrazzalePHS_79:

(5, 46584), (Start: 10 @46662 has 27 MA's), (23, 46869), (24, 46881), (27, 46932), (29, 46944), (30, 46950), (34, 47043),

Gene: Busephilis_79 Start: 46571, Stop: 47107, Start Num: 10

Candidate Starts for Busephilis_79:

(4, 46484), (5, 46493), (Start: 10 @46571 has 27 MA's), (12, 46583), (23, 46778), (24, 46790), (27, 46841), (29, 46853), (30, 46859),

Gene: ClearAsMud_83 Start: 46877, Stop: 47428, Start Num: 9

Candidate Starts for ClearAsMud_83:

(1, 46637), (2, 46646), (3, 46784), (Start: 9 @46877 has 13 MA's), (16, 46976), (23, 47099), (24, 47111), (26, 47153), (27, 47162), (29, 47174), (30, 47180), (38, 47390),

Gene: Cranjis_81 Start: 46855, Stop: 47385, Start Num: 10

Candidate Starts for Cranjis_81:

(5, 46777), (Start: 10 @46855 has 27 MA's), (23, 47056), (24, 47068), (27, 47119), (29, 47131), (30, 47137),

Gene: CrazyRich_78 Start: 46350, Stop: 46895, Start Num: 9

Candidate Starts for CrazyRich_78:

(1, 46110), (2, 46119), (3, 46257), (Start: 9 @46350 has 13 MA's), (23, 46566), (24, 46578), (27, 46629), (29, 46641), (30, 46647),

Gene: Crisis_81 Start: 46796, Stop: 47341, Start Num: 9

Candidate Starts for Crisis_81:

(1, 46556), (2, 46565), (3, 46703), (Start: 9 @46796 has 13 MA's), (23, 47012), (24, 47024), (27, 47075), (29, 47087), (30, 47093),

Gene: EarickHC_81 Start: 46718, Stop: 47263, Start Num: 9

Candidate Starts for EarickHC_81:

(1, 46478), (2, 46487), (3, 46625), (Start: 9 @46718 has 13 MA's), (23, 46934), (24, 46946), (29, 47009), (30, 47015),

Gene: Ganandorf_78 Start: 46213, Stop: 46749, Start Num: 10

Candidate Starts for Ganandorf_78:

(4, 46126), (5, 46135), (Start: 10 @46213 has 27 MA's), (12, 46225), (23, 46420), (24, 46432), (27, 46483), (29, 46495), (30, 46501),

Gene: Germa_82 Start: 46650, Stop: 47195, Start Num: 9

Candidate Starts for Germa_82:

(Start: 9 @46650 has 13 MA's), (23, 46866), (24, 46878), (27, 46929), (29, 46941), (30, 46947),

Gene: Glorp_81 Start: 46616, Stop: 47152, Start Num: 10

Candidate Starts for Glorp_81:

(4, 46529), (5, 46538), (Start: 10 @46616 has 27 MA's), (12, 46628), (23, 46823), (24, 46835), (27, 46886), (29, 46898), (30, 46904),

Gene: Hermeonysus_80 Start: 46570, Stop: 47106, Start Num: 10

Candidate Starts for Hermeonysus_80:

(5, 46492), (Start: 10 @46570 has 27 MA's), (23, 46777), (24, 46789), (27, 46840), (29, 46852), (30, 46858), (34, 46951),

Gene: Honeyfin_80 Start: 46403, Stop: 46939, Start Num: 10

Candidate Starts for Honeyfin_80:

(5, 46325), (Start: 10 @46403 has 27 MA's), (23, 46610), (24, 46622), (27, 46673), (29, 46685), (30, 46691), (34, 46784),

Gene: Jefe_80 Start: 46631, Stop: 47161, Start Num: 10

Candidate Starts for Jefe_80:

(5, 46553), (Start: 10 @46631 has 27 MA's), (23, 46832), (24, 46844), (27, 46895), (29, 46907), (30, 46913),

Gene: Jollipop_81 Start: 46990, Stop: 47526, Start Num: 10

Candidate Starts for Jollipop_81:

(4, 46903), (5, 46912), (Start: 10 @46990 has 27 MA's), (12, 47002), (23, 47197), (24, 47209), (27, 47260), (29, 47272), (30, 47278),

Gene: KaiHaiDragon_81 Start: 46718, Stop: 47263, Start Num: 9

Candidate Starts for KaiHaiDragon_81:

(1, 46478), (2, 46487), (3, 46625), (Start: 9 @46718 has 13 MA's), (23, 46934), (24, 46946), (29, 47009), (30, 47015),

Gene: Kowalski_79 Start: 46657, Stop: 47193, Start Num: 10

Candidate Starts for Kowalski_79:

(5, 46579), (Start: 10 @46657 has 27 MA's), (23, 46864), (24, 46876), (27, 46927), (29, 46939), (30, 46945), (34, 47038),

Gene: LittleFortune_81 Start: 46637, Stop: 47182, Start Num: 9

Candidate Starts for LittleFortune_81:

(1, 46397), (2, 46406), (3, 46544), (Start: 9 @46637 has 13 MA's), (23, 46853), (24, 46865), (27, 46916), (29, 46928), (30, 46934),

Gene: Lucretia_80 Start: 46690, Stop: 47235, Start Num: 9

Candidate Starts for Lucretia_80:

(1, 46450), (2, 46459), (3, 46597), (Start: 9 @46690 has 13 MA's), (23, 46906), (24, 46918), (27, 46969), (29, 46981), (30, 46987),

Gene: Megan_74 Start: 48952, Stop: 49488, Start Num: 8

Candidate Starts for Megan_74:

(7, 48910), (Start: 8 @48952 has 1 MA's), (13, 49009), (15, 49036), (19, 49090), (20, 49096), (22, 49147), (25, 49183), (26, 49216), (31, 49258), (32, 49318), (37, 49447), (38, 49453),

Gene: Metamorphoo_81 Start: 47366, Stop: 47920, Start Num: 9

Candidate Starts for Metamorphoo_81:

(3, 47273), (Start: 9 @47366 has 13 MA's), (23, 47582), (24, 47594), (26, 47636), (27, 47645), (29, 47657), (30, 47663), (37, 47867), (38, 47873),

Gene: NoodlelyBoi_80 Start: 47003, Stop: 47533, Start Num: 10

Candidate Starts for NoodlelyBoi_80:

(Start: 10 @47003 has 27 MA's), (23, 47204), (24, 47216), (26, 47258), (27, 47267), (29, 47279), (30, 47285), (38, 47495),

Gene: Onika_79 Start: 46630, Stop: 47166, Start Num: 10

Candidate Starts for Onika_79:

(4, 46543), (5, 46552), (Start: 10 @46630 has 27 MA's), (12, 46642), (23, 46837), (24, 46849), (27, 46900), (29, 46912), (30, 46918), (34, 47011),

Gene: Paschalis_80 Start: 46655, Stop: 47191, Start Num: 10

Candidate Starts for Paschalis_80:

(4, 46568), (5, 46577), (Start: 10 @46655 has 27 MA's), (12, 46667), (23, 46862), (24, 46874), (27, 46925), (29, 46937), (30, 46943),

Gene: PhedwardCullen_78 Start: 46097, Stop: 46642, Start Num: 9

Candidate Starts for PhedwardCullen_78:

(1, 45857), (2, 45866), (3, 46004), (Start: 9 @46097 has 13 MA's), (23, 46313), (24, 46325), (27, 46376), (29, 46388), (30, 46394),

Gene: Phorgeous_80 Start: 46450, Stop: 46980, Start Num: 10

Candidate Starts for Phorgeous_80:

(4, 46363), (5, 46372), (Start: 10 @46450 has 27 MA's), (23, 46651), (24, 46663), (27, 46714), (29, 46726), (30, 46732),

Gene: Phrancesco_80 Start: 46761, Stop: 47291, Start Num: 10

Candidate Starts for Phrancesco_80:

(4, 46674), (5, 46683), (Start: 10 @46761 has 27 MA's), (23, 46962), (24, 46974), (27, 47025), (29, 47037), (30, 47043),

Gene: PierreOrion_79 Start: 46470, Stop: 47000, Start Num: 10

Candidate Starts for PierreOrion_79:

(5, 46392), (Start: 10 @46470 has 27 MA's), (23, 46671), (24, 46683), (27, 46734), (29, 46746), (30, 46752),

Gene: PiperSansNom_81 Start: 46970, Stop: 47500, Start Num: 10

Candidate Starts for PiperSansNom_81:

(5, 46892), (Start: 10 @46970 has 27 MA's), (23, 47171), (24, 47183), (27, 47234), (29, 47246), (30, 47252),

Gene: Piperis_81 Start: 46563, Stop: 47099, Start Num: 10

Candidate Starts for Piperis_81:

(4, 46476), (5, 46485), (Start: 10 @46563 has 27 MA's), (12, 46575), (23, 46770), (24, 46782), (27, 46833), (29, 46845), (30, 46851),

Gene: Pulchra_82 Start: 47121, Stop: 47666, Start Num: 9

Candidate Starts for Pulchra_82:

(1, 46881), (2, 46890), (3, 47028), (Start: 9 @47121 has 13 MA's), (23, 47337), (24, 47349), (27, 47400), (29, 47412), (30, 47418),

Gene: Quhwah_84 Start: 47284, Stop: 47820, Start Num: 10

Candidate Starts for Quhwah_84:

(5, 47206), (Start: 10 @47284 has 27 MA's), (23, 47491), (24, 47503), (27, 47554), (29, 47566), (30, 47572), (34, 47665),

Gene: Ramiel05_79 Start: 46657, Stop: 47193, Start Num: 10

Candidate Starts for Ramiel05_79:

(5, 46579), (Start: 10 @46657 has 27 MA's), (23, 46864), (24, 46876), (27, 46927), (29, 46939), (30, 46945), (34, 47038),

Gene: Rasputia_127 Start: 81149, Stop: 81685, Start Num: 17

Candidate Starts for Rasputia_127:

(Start: 17 @81149 has 1 MA's), (18, 81152), (21, 81194), (23, 81236), (24, 81248), (26, 81287), (28, 81302), (29, 81308), (37, 81533), (38, 81539), (39, 81572),

Gene: Rockwell_79 Start: 46681, Stop: 47217, Start Num: 10

Candidate Starts for Rockwell_79:

(5, 46603), (Start: 10 @46681 has 27 MA's), (23, 46888), (24, 46900), (27, 46951), (29, 46963), (30, 46969), (34, 47062),

Gene: Savannah_79 Start: 46840, Stop: 47385, Start Num: 9

Candidate Starts for Savannah_79:

(1, 46600), (2, 46609), (3, 46747), (Start: 9 @46840 has 13 MA's), (23, 47056), (24, 47068), (27, 47119), (29, 47131), (30, 47137),

Gene: Scumberland_82 Start: 46909, Stop: 47439, Start Num: 10

Candidate Starts for Scumberland_82:

(5, 46831), (Start: 10 @46909 has 27 MA's), (23, 47110), (24, 47122), (27, 47173), (29, 47185), (30, 47191),

Gene: Selwyn23_81 Start: 46790, Stop: 47326, Start Num: 10

Candidate Starts for Selwyn23_81:

(4, 46703), (5, 46712), (Start: 10 @46790 has 27 MA's), (12, 46802), (23, 46997), (24, 47009), (27, 47060), (29, 47072), (30, 47078),

Gene: Shotgun_79 Start: 46159, Stop: 46695, Start Num: 10

Candidate Starts for Shotgun_79:

(5, 46081), (Start: 10 @46159 has 27 MA's), (23, 46366), (24, 46378), (27, 46429), (29, 46441), (30, 46447), (34, 46540),

Gene: Shrubaron_82 Start: 47247, Stop: 47801, Start Num: 9

Candidate Starts for Shrubaron_82:

(Start: 9 @47247 has 13 MA's), (23, 47463), (24, 47475), (26, 47517), (27, 47526), (29, 47538), (30, 47544), (38, 47754),

Gene: SirFrank_79 Start: 46575, Stop: 47120, Start Num: 9

Candidate Starts for SirFrank_79:

(1, 46335), (2, 46344), (3, 46482), (Start: 9 @46575 has 13 MA's), (23, 46791), (24, 46803), (26, 46845), (27, 46854), (29, 46866), (30, 46872), (38, 47082),

Gene: Smarties_89 Start: 47745, Stop: 48302, Start Num: 10

Candidate Starts for Smarties_89:

(4, 47658), (5, 47667), (Start: 10 @47745 has 27 MA's), (12, 47757), (23, 47952), (24, 47964), (27, 48015), (29, 48027), (30, 48033), (37, 48237), (38, 48243),

Gene: Tyrumbra_78 Start: 47284, Stop: 47820, Start Num: 9

Candidate Starts for Tyrumbra_78:

(3, 47191), (Start: 9 @47284 has 13 MA's), (14, 47353), (23, 47494), (24, 47506), (27, 47557), (29, 47569), (30, 47575), (36, 47767), (37, 47779), (38, 47785),

Gene: Yeti_81 Start: 46191, Stop: 46721, Start Num: 10

Candidate Starts for Yeti_81:

(5, 46113), (Start: 10 @46191 has 27 MA's), (23, 46392), (24, 46404), (27, 46455), (29, 46467), (30, 46473),

Gene: Zapato_80 Start: 47036, Stop: 47608, Start Num: 11

Candidate Starts for Zapato_80:

(6, 46973), (11, 47036), (14, 47090), (21, 47189), (23, 47231), (24, 47243), (30, 47315), (31, 47330), (33, 47399), (35, 47450), (36, 47522),