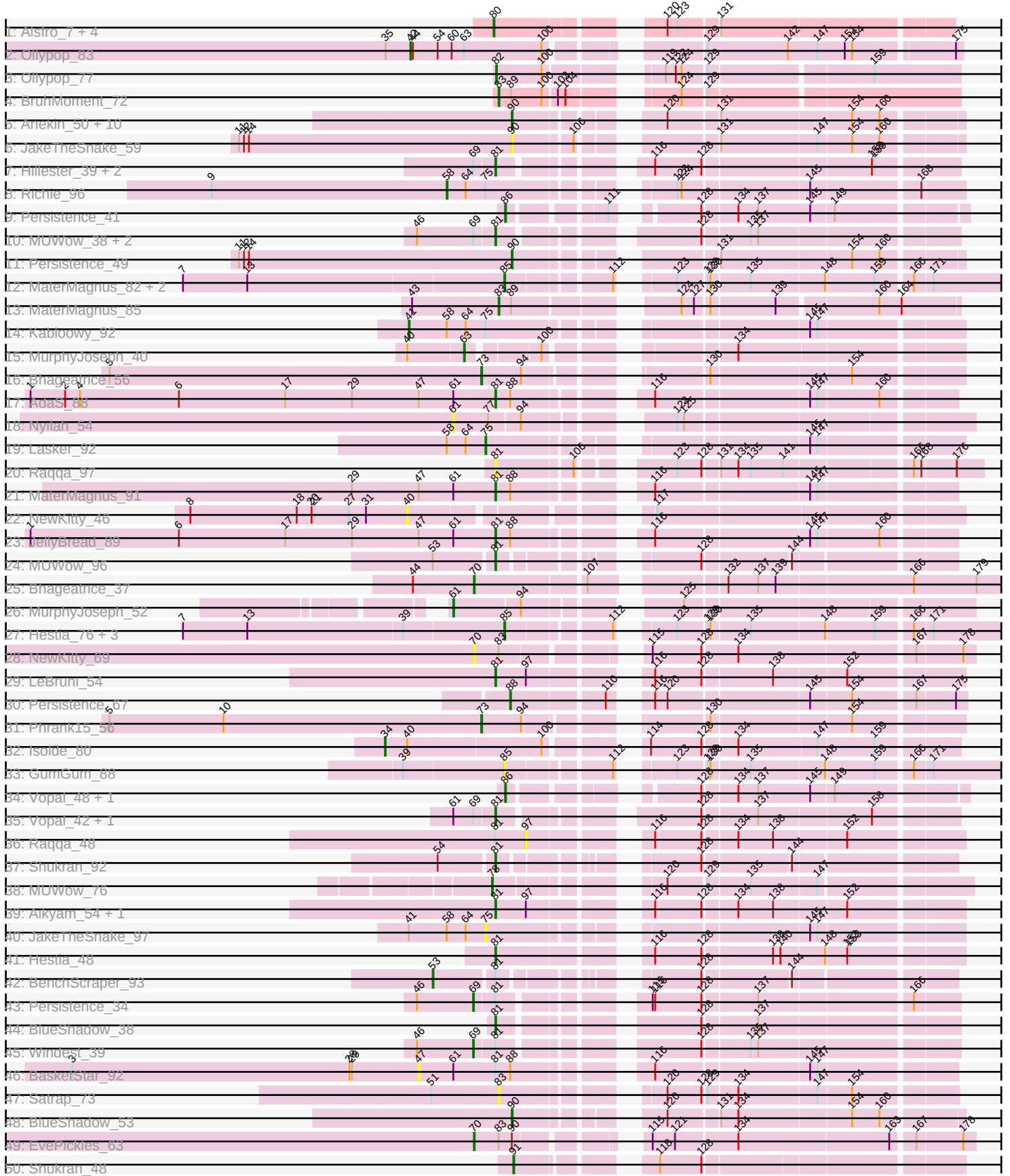
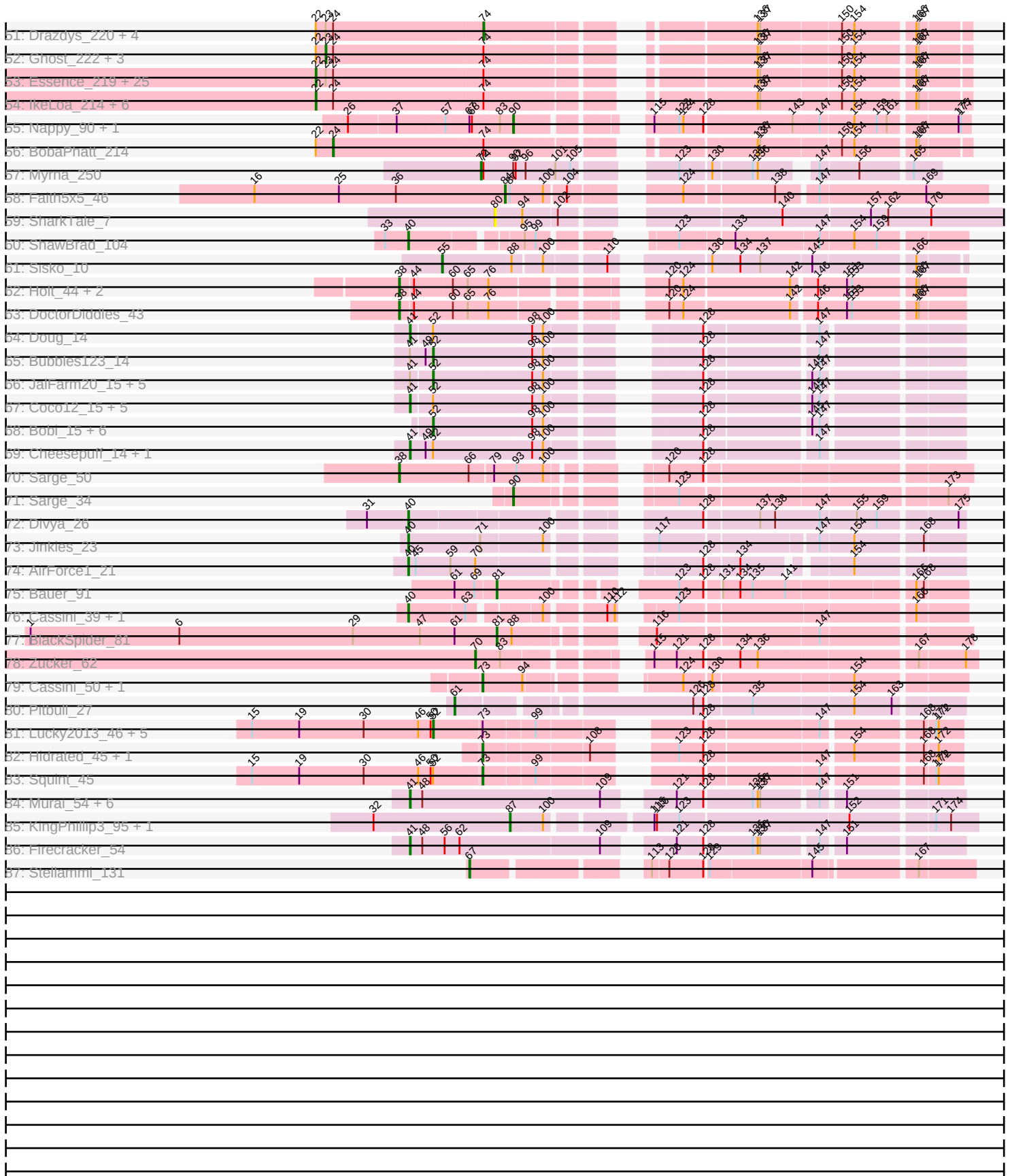


Pham 330513



Pham 330513



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 330513 Report

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

Pham number 330513 has 186 members, 22 are drafts.

Phages represented in each track:

- Track 1 : Alsfro_7, Watermelon_6, Trouble_4, Tripl3t_5, Peterson_6
- Track 2 : Ollypop_83
- Track 3 : Ollypop_77
- Track 4 : BruhMoment_72
- Track 5 : Anekin_50, Faja_54, RadFad_57, BenchScraper_52, BasketStar_55, Raqqa_45, Vopal_56, BillyTP_55, Crescenzo_53, Hillester_57, MidnightRain_57
- Track 6 : JakeTheSnake_59
- Track 7 : Hillester_39, RadFad_39, Cassini_30
- Track 8 : Richie_96
- Track 9 : Persistence_41
- Track 10 : MUWow_38, Phrank15_38, SonDevVon_39
- Track 11 : Persistence_49
- Track 12 : MaterMagnus_82, BlueShadow_80, Aikyam_81
- Track 13 : MaterMagnus_85
- Track 14 : Kabloowy_92
- Track 15 : MurphyJoseph_40
- Track 16 : Bhageatrice_56
- Track 17 : AdaS_88
- Track 18 : Nyilah_54
- Track 19 : Lasker_92
- Track 20 : Raqqa_97
- Track 21 : MaterMagnus_91
- Track 22 : NewKitty_46
- Track 23 : JellyBread_89
- Track 24 : MUWow_96
- Track 25 : Bhageatrice_37
- Track 26 : MurphyJoseph_52
- Track 27 : Hestia_76, BillyTP_83, Lawnathon_84, MurphyJoseph_81
- Track 28 : NewKitty_69
- Track 29 : LeBruni_54
- Track 30 : Persistence_67
- Track 31 : Phrank15_56
- Track 32 : Isolde_80
- Track 33 : GumGum_88
- Track 34 : Vopal_48, Tiff81_42
- Track 35 : Vopal_42, BillyTP_41
- Track 36 : Raqqa_48

- Track 37 : Shukran_92
- Track 38 : MUWow_76
- Track 39 : Aikyam_54, MaterMagnus_56
- Track 40 : JakeTheSnake_97
- Track 41 : Hestia_48
- Track 42 : BenchScraper_93
- Track 43 : Persistence_34
- Track 44 : BlueShadow_38
- Track 45 : Windest_39
- Track 46 : BasketStar_92
- Track 47 : Satrap_73
- Track 48 : BlueShadow_53
- Track 49 : EvePickles_63
- Track 50 : Shukran_48
- Track 51 : Drazdys_220, ShiaLabeouf_219, Nappy_223, Ading_223, Jemmno_221
- Track 52 : Ghost_222, DTDevon_224, ArcherS7_222, Tyke_220
- Track 53 : Essence_219, JPickles_218, Patter_223, ChaylaJr_220, Quasimodo_224, Spec_216, SmallFry_222, Shnickers_220, Jedediah_222, Derek_219, Rahel_223, Salacia_222, Jaygup_218, Phusco_220, Ngannou_219, Sauce_218, Teardrop_219, YoungMoneyMata_221, Chomp_222, EmmaElysia_226, LifeSavor_221, Bangla1971_222, Adlitam_221, Dessert_222, Guwapp_217, Cactojaque_217
- Track 54 : IkeLoa_214, Fixie_213, Shifa_199, McGee_221, Blackbrain_219, BeanWater_214, HyRo_210
- Track 55 : Nappy_90, Cane17_77
- Track 56 : BobaPhatt_214
- Track 57 : Myrna_250
- Track 58 : Faith5x5_46
- Track 59 : SharkTale_7
- Track 60 : ShawBrad_104
- Track 61 : Sisko_10
- Track 62 : Holt_44, Sunshine924_65, Flabslab_17
- Track 63 : DoctorDiddles_43
- Track 64 : Doug_14
- Track 65 : Bubbles123_14
- Track 66 : JalFarm20_15, Alexphander_15, Polka14_14, DaWorst_15, OwlsT2W_15, Phasih_14
- Track 67 : Coco12_15, Job42_15, Minnie_14, BuzzLyseyear_15, SuperGrey_14, Violac_14
- Track 68 : Bobi_15, Wee_14, Phatniss_14, Sandalphon_14, Rialto_15, Firehouse51_14, Moonbeam_14
- Track 69 : Cheesepuff_14, Latretium_14
- Track 70 : Sarge_50
- Track 71 : Sarge_34
- Track 72 : Divya_26
- Track 73 : Jinkies_23
- Track 74 : AirForce1_21
- Track 75 : Bauer_91
- Track 76 : Cassini_39, MidnightRain_47
- Track 77 : BlackSpider_81
- Track 78 : Zucker_62
- Track 79 : Cassini_50, SpicyFrank_59
- Track 80 : Pitbull_27

- Track 81 : Lucky2013_46, Courthouse_46, Ariel_46, Porcelain_45, Superphikiman_46, MiaZeal_46
- Track 82 : Hidrated_45, Bobby_46
- Track 83 : Squint_45
- Track 84 : Murai_54, Corndog_56, Smooch_56, YungJamal_57, Ashwin_55, Vorrrps_53, Mori_53
- Track 85 : KingPhillip3_95, Bora_94
- Track 86 : Firecracker_54
- Track 87 : Stellammi_131

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

The start number called the most often in the published annotations is 22, it was called in 33 of the 164 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adlitam_221, Bangla1971_222, BeanWater_214, Blackbrain_219, Cactojaque_217, ChaylaJr_220, Chomp_222, Derek_219, Dessert_222, EmmaElysia_226, Essence_219, Fixie_213, Guwapp_217, HyRo_210, IkeLoa_214, JPickles_218, Jaygup_218, Jedediah_222, LifeSavor_221, McGee_221, Ngannou_219, Patter_223, Phusco_220, Quasimodo_224, Rahel_223, Salacia_222, Sauce_218, Shifa_199, Shnickers_220, SmallFry_222, Spec_216, Teardrop_219, YoungMoneyMata_221,

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

- Ading_223, ArcherS7_222, BobaPhatt_214, DTDevon_224, Drazdys_220, Ghost_222, Jemmno_221, Nappy_223, ShiaLabeouf_219, Tyke_220,

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

- AdaS_88, Aikyam_54, Aikyam_81, AirForce1_21, Alexphander_15, Alsfro_7, Anekin_50, Ariel_46, Ashwin_55, BasketStar_55, BasketStar_92, Bauer_91, BenchScraper_52, BenchScraper_93, Bhageatrice_37, Bhageatrice_56, BillyTP_41, BillyTP_55, BillyTP_83, BlackSpider_81, BlueShadow_38, BlueShadow_53, BlueShadow_80, Bobby_46, Bobi_15, Bora_94, BruhMoment_72, Bubbles123_14, BuzzLyseyear_15, Cane17_77, Cassini_30, Cassini_39, Cassini_50, Cheesepuff_14, Coco12_15, Corndog_56, Courthouse_46, Crescenzo_53, DaWorst_15, Divya_26, DoctorDiddles_43, Doug_14, EvePickles_63, Faith5x5_46, Faja_54, Firecracker_54, Firehouse51_14, Flabslab_17, GumGum_88, Hestia_48, Hestia_76, Hidrated_45, Hillester_39, Hillester_57, Holt_44, Isolde_80, JakeTheSnake_59, JakeTheSnake_97, JalFarm20_15, JellyBread_89, Jinkies_23, Job42_15, Kabloowy_92, KingPhillip3_95, Lasker_92, Latretium_14, Lawnathon_84, LeBruni_54, Lucky2013_46, MUWow_38, MUWow_76, MUWow_96, MaterMagnus_56, MaterMagnus_82, MaterMagnus_85, MaterMagnus_91, MiaZeal_46, MidnightRain_47, MidnightRain_57, Minnie_14, Moonbeam_14, Mori_53, Murai_54, MurphyJoseph_40, MurphyJoseph_52, MurphyJoseph_81, Myrna_250, Nappy_90, NewKitty_46, NewKitty_69, Nyilah_54, Ollypop_77, Ollypop_83, OwlsT2W_15, Persistence_34, Persistence_41, Persistence_49, Persistence_67, Peterson_6, Phasih_14, Phatniss_14, Phrank15_38, Phrank15_56, Pitbull_27, Polka14_14, Porcelain_45, RadFad_39, RadFad_57, Raqqa_45, Raqqa_48, Raqqa_97, Rialto_15, Richie_96, Sandalphon_14, Sarge_34, Sarge_50, Satrap_73, SharkTale_7, ShawBrad_104, Shukran_48, Shukran_92, Sisko_10,

Smooch_56, SonDevVon_39, SpicyFrank_59, Squint_45, Stellammi_131, Sunshine924_65, SuperGrey_14, Superphikiman_46, Tiff81_42, Tripl3t_5, Trouble_4, Violac_14, Vopal_42, Vopal_48, Vopal_56, Vorrrps_53, Watermelon_6, Wee_14, Windest_39, YungJamal_57, Zucker_62,

Summary by start number:

Start 22:

- Found in 43 of 186 (23.1%) of genes in pham
- Manual Annotations of this start: 33 of 164
- Called 76.7% of time when present
- Phage (with cluster) where this start called: Adlitam_221 (C1), Bangla1971_222 (C1), BeanWater_214 (C1), Blackbrain_219 (C1), Cactojaque_217 (C1), ChaylaJr_220 (C1), Chomp_222 (C1), Derek_219 (C1), Dessert_222 (C1), EmmaElysia_226 (C1), Essence_219 (C1), Fixie_213 (C1), Guwapp_217 (C1), HyRo_210 (C1), IkeLoa_214 (C1), JPickles_218 (C1), Jaygup_218 (C1), Jedediah_222 (C1), LifeSavor_221 (C1), McGee_221 (C1), Ngannou_219 (C1), Patter_223 (C1), Phusco_220 (C1), Quasimodo_224 (C1), Rahel_223 (C1), Salacia_222 (C1), Sauce_218 (C1), Shifa_199 (C1), Shnickers_220 (C1), SmallFry_222 (C1), Spec_216 (C1), Teardrop_219 (C1), YoungMoneyMata_221 (C1),

Start 23:

- Found in 35 of 186 (18.8%) of genes in pham
- Manual Annotations of this start: 4 of 164
- Called 11.4% of time when present
- Phage (with cluster) where this start called: ArcherS7_222 (C1), DTDevon_224 (C1), Ghost_222 (C1), Tyke_220 (C1),

Start 24:

- Found in 43 of 186 (23.1%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 2.3% of time when present
- Phage (with cluster) where this start called: BobaPhatt_214 (C1),

Start 34:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Isolde_80 (AY),

Start 38:

- Found in 5 of 186 (2.7%) of genes in pham
- Manual Annotations of this start: 5 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DoctorDiddles_43 (E), Flabslab_17 (C1), Holt_44 (E), Sarge_50 (FB), Sunshine924_65 (A1),

Start 40:

- Found in 9 of 186 (4.8%) of genes in pham
- Manual Annotations of this start: 5 of 164
- Called 77.8% of time when present

- Phage (with cluster) where this start called: AirForce1_21 (FL), Cassini_39 (FN), Divya_26 (FL), Jinkies_23 (FL), MidnightRain_47 (AY), NewKitty_46 (AY), ShawBrad_104 (DN1),

Start 41:

- Found in 26 of 186 (14.0%) of genes in pham
- Manual Annotations of this start: 18 of 164
- Called 69.2% of time when present
- Phage (with cluster) where this start called: Ashwin_55 (O), BuzzLyseyear_15 (F1), Cheesepuff_14 (F1), Coco12_15 (F1), Corndog_56 (O), Doug_14 (F1), Firecracker_54 (O), Job42_15 (F1), Kabloowy_92 (AY), Latretium_14 (F1), Minnie_14 (F1), Mori_53 (O), Murai_54 (O), Smooch_56 (O), SuperGrey_14 (F1), Violac_14 (F1), Vorrrps_53 (O), YungJamal_57 (O),

Start 42:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ollypop_83 (AP2),

Start 47:

- Found in 5 of 186 (2.7%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: BasketStar_92 (AY),

Start 52:

- Found in 30 of 186 (16.1%) of genes in pham
- Manual Annotations of this start: 20 of 164
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Alexphander_15 (F1), Ariel_46 (J), Bobi_15 (F1), Bubbles123_14 (F1), Courthouse_46 (J), DaWorst_15 (F1), Firehouse51_14 (F1), JalFarm20_15 (F1), Lucky2013_46 (J), MiaZeal_46 (J), Moonbeam_14 (F1), OwlsT2W_15 (F1), Phasih_14 (F1), Phatniss_14 (F1), Polka14_14 (F1), Porcelain_45 (J), Rialto_15 (F1), Sandalphon_14 (F1), Superphikiman_46 (J), Wee_14 (F1),

Start 53:

- Found in 2 of 186 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BenchScraper_93 (AY),

Start 55:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sisko_10 (DR),

Start 58:

- Found in 4 of 186 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 25.0% of time when present

- Phage (with cluster) where this start called: Richie_96 (AY),

Start 61:

- Found in 11 of 186 (5.9%) of genes in pham
- Manual Annotations of this start: 2 of 164
- Called 27.3% of time when present
- Phage (with cluster) where this start called: MurphyJoseph_52 (AY), Nyilah_54 (AY), Pitbull_27 (FQ1),

Start 63:

- Found in 4 of 186 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 25.0% of time when present
- Phage (with cluster) where this start called: MurphyJoseph_40 (AY),

Start 67:

- Found in 3 of 186 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Stellammi_131 (UNK),

Start 69:

- Found in 11 of 186 (5.9%) of genes in pham
- Manual Annotations of this start: 2 of 164
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Persistence_34 (AY), Windest_39 (AY),

Start 70:

- Found in 5 of 186 (2.7%) of genes in pham
- Manual Annotations of this start: 3 of 164
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Bhageatrice_37 (AY), EvePickles_63 (AY), NewKitty_69 (AY), Zucker_62 (FN),

Start 72:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Myrna_250 (C2),

Start 73:

- Found in 13 of 186 (7.0%) of genes in pham
- Manual Annotations of this start: 6 of 164
- Called 53.8% of time when present
- Phage (with cluster) where this start called: Bhageatrice_56 (AY), Bobby_46 (J), Cassini_50 (FN), Hidrated_45 (J), Phrank15_56 (AY), SpicyFrank_59 (AY), Squint_45 (J),

Start 74:

- Found in 44 of 186 (23.7%) of genes in pham
- Manual Annotations of this start: 5 of 164
- Called 11.4% of time when present

- Phage (with cluster) where this start called: Ading_223 (C1), Drazdys_220 (C1), Jemmno_221 (C1), Nappy_223 (C1), ShiaLabeouf_219 (C1),

Start 75:

- Found in 4 of 186 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 50.0% of time when present
- Phage (with cluster) where this start called: JakeTheSnake_97 (AY), Lasker_92 (AY),

Start 78:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MUWow_76 (AY),

Start 80:

- Found in 6 of 186 (3.2%) of genes in pham
- Manual Annotations of this start: 5 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alsfro_7 (A1), Peterson_6 (A1), SharkTale_7 (DC1), Tripl3t_5 (A1), Trouble_4 (A1), Watermelon_6 (A1),

Start 81:

- Found in 26 of 186 (14.0%) of genes in pham
- Manual Annotations of this start: 16 of 164
- Called 80.8% of time when present
- Phage (with cluster) where this start called: AdaS_88 (AY), Aikyam_54 (AY), Bauer_91 (FN), BillyTP_41 (AY), BlackSpider_81 (FN), BlueShadow_38 (AY), Cassini_30 (FN), Hestia_48 (AY), Hillester_39 (AY), JellyBread_89 (AY), LeBruni_54 (AY), MUWow_38 (AY), MUWow_96 (AY), MaterMagnus_56 (AY), MaterMagnus_91 (AY), Phrank15_38 (AY), RadFad_39 (AY), Raqqa_97 (AY), Shukran_92 (AY), SonDevVon_39 (AY), Vopal_42 (AY),

Start 82:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ollypop_77 (AP2),

Start 83:

- Found in 8 of 186 (4.3%) of genes in pham
- Manual Annotations of this start: 2 of 164
- Called 37.5% of time when present
- Phage (with cluster) where this start called: BruhMoment_72 (AP3), MaterMagnus_85 (AY), Satrap_73 (AY),

Start 84:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faith5x5_46 (CZ6),

Start 85:

- Found in 8 of 186 (4.3%) of genes in pham
- Manual Annotations of this start: 6 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam_81 (AY), BillyTP_83 (AY), BlueShadow_80 (AY), GumGum_88 (AY), Hestia_76 (AY), Lawnathon_84 (AY), MaterMagnus_82 (AY), MurphyJoseph_81 (AY),

Start 86:

- Found in 3 of 186 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Persistence_41 (AY), Tiff81_42 (AY), Vopal_48 (AY),

Start 87:

- Found in 3 of 186 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 164
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Bora_94 (O), KingPhillip3_95 (O),

Start 88:

- Found in 7 of 186 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Persistence_67 (AY),

Start 90:

- Found in 19 of 186 (10.2%) of genes in pham
- Manual Annotations of this start: 13 of 164
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Anekin_50 (AY), BasketStar_55 (AY), BenchScraper_52 (AY), BillyTP_55 (AY), BlueShadow_53 (AY), Cane17_77 (C1), Crescenzo_53 (AY), Faja_54 (AY), Hillester_57 (AY), JakeTheSnake_59 (AY), MidnightRain_57 (AY), Nappy_90 (C1), Persistence_49 (AY), RadFad_57 (AY), Raqqa_45 (AY), Sarge_34 (FB), Vopal_56 (AY),

Start 91:

- Found in 1 of 186 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shukran_48 (AY),

Start 97:

- Found in 4 of 186 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Raqqa_48 (AY),

Summary by clusters:

There are 19 clusters represented in this pham: F1, UNK, E, AP2, FL, J, CZ6, O, A1, FB, DN1, AP3, AY, C2, C1, FQ1, DR, FN, DC1,

Info for manual annotations of cluster A1:

- Start number 38 was manually annotated 1 time for cluster A1.
- Start number 80 was manually annotated 5 times for cluster A1.

Info for manual annotations of cluster AP2:

- Start number 42 was manually annotated 1 time for cluster AP2.
- Start number 82 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 83 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AY:

- Start number 34 was manually annotated 1 time for cluster AY.
- Start number 40 was manually annotated 1 time for cluster AY.
- Start number 41 was manually annotated 1 time for cluster AY.
- Start number 53 was manually annotated 1 time for cluster AY.
- Start number 58 was manually annotated 1 time for cluster AY.
- Start number 61 was manually annotated 1 time for cluster AY.
- Start number 63 was manually annotated 1 time for cluster AY.
- Start number 69 was manually annotated 2 times for cluster AY.
- Start number 70 was manually annotated 2 times for cluster AY.
- Start number 73 was manually annotated 3 times for cluster AY.
- Start number 75 was manually annotated 1 time for cluster AY.
- Start number 78 was manually annotated 1 time for cluster AY.
- Start number 81 was manually annotated 14 times for cluster AY.
- Start number 83 was manually annotated 1 time for cluster AY.
- Start number 85 was manually annotated 6 times for cluster AY.
- Start number 86 was manually annotated 2 times for cluster AY.
- Start number 88 was manually annotated 1 time for cluster AY.
- Start number 90 was manually annotated 10 times for cluster AY.
- Start number 91 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster C1:

- Start number 22 was manually annotated 33 times for cluster C1.
- Start number 23 was manually annotated 4 times for cluster C1.
- Start number 24 was manually annotated 1 time for cluster C1.
- Start number 38 was manually annotated 1 time for cluster C1.
- Start number 74 was manually annotated 5 times for cluster C1.
- Start number 90 was manually annotated 2 times for cluster C1.

Info for manual annotations of cluster C2:

- Start number 72 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CZ6:

- Start number 84 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DN1:

- Start number 40 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DR:

- Start number 55 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster E:

- Start number 38 was manually annotated 2 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 41 was manually annotated 9 times for cluster F1.
- Start number 52 was manually annotated 14 times for cluster F1.

Info for manual annotations of cluster FB:

- Start number 38 was manually annotated 1 time for cluster FB.
- Start number 90 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FL:

- Start number 40 was manually annotated 3 times for cluster FL.

Info for manual annotations of cluster FN:

- Start number 70 was manually annotated 1 time for cluster FN.
- Start number 81 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FQ1:

- Start number 61 was manually annotated 1 time for cluster FQ1.

Info for manual annotations of cluster J:

- Start number 52 was manually annotated 6 times for cluster J.
- Start number 73 was manually annotated 3 times for cluster J.

Info for manual annotations of cluster O:

- Start number 41 was manually annotated 8 times for cluster O.
- Start number 87 was manually annotated 2 times for cluster O.

Info for manual annotations of cluster UNK:

- Start number 67 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: AdaS_88 Start: 48513, Stop: 48998, Start Num: 81

Candidate Starts for AdaS_88:

(1, 47952), (2, 47994), (4, 48012), (6, 48132), (17, 48261), (29, 48342), (47, 48423), (Start: 61 @48465 has 2 MA's), (Start: 81 @48513 has 16 MA's), (Start: 88 @48531 has 1 MA's), (116, 48660), (145, 48834), (147, 48843), (160, 48915),

Gene: Ading_223 Start: 126625, Stop: 127119, Start Num: 74

Candidate Starts for Ading_223:

(Start: 22 @126424 has 33 MA's), (Start: 23 @126436 has 4 MA's), (Start: 24 @126445 has 1 MA's), (Start: 74 @126625 has 5 MA's), (136, 126883), (137, 126886), (150, 126979), (154, 126994), (166, 127060), (167, 127063),

Gene: Adlitam_221 Start: 125028, Stop: 125723, Start Num: 22

Candidate Starts for Adlitam_221:

(Start: 22 @125028 has 33 MA's), (Start: 23 @125040 has 4 MA's), (Start: 24 @125049 has 1 MA's), (Start: 74 @125229 has 5 MA's), (136, 125487), (137, 125490), (150, 125583), (154, 125598), (166,

125664), (167, 125667),

Gene: Aikyam_54 Start: 31109, Stop: 31600, Start Num: 81

Candidate Starts for Aikyam_54:

(Start: 81 @31109 has 16 MA's), (97, 31145), (116, 31256), (128, 31307), (134, 31343), (138, 31385), (152, 31469),

Gene: Aikyam_81 Start: 44887, Stop: 45402, Start Num: 85

Candidate Starts for Aikyam_81:

(7, 44503), (13, 44581), (Start: 85 @44887 has 6 MA's), (112, 44995), (123, 45037), (129, 45067), (130, 45070), (135, 45115), (148, 45202), (159, 45259), (166, 45298), (171, 45319),

Gene: AirForce1_21 Start: 17126, Stop: 16560, Start Num: 40

Candidate Starts for AirForce1_21:

(Start: 40 @17126 has 5 MA's), (45, 17117), (59, 17075), (Start: 70 @17045 has 3 MA's), (128, 16829), (134, 16793), (154, 16682),

Gene: Alexphander_15 Start: 9340, Stop: 9879, Start Num: 52

Candidate Starts for Alexphander_15:

(Start: 41 @9319 has 18 MA's), (Start: 52 @9340 has 20 MA's), (98, 9457), (100, 9469), (128, 9601), (145, 9715), (147, 9724),

Gene: Alsfro_7 Start: 2250, Stop: 2729, Start Num: 80

Candidate Starts for Alsfro_7:

(Start: 80 @2250 has 5 MA's), (120, 2409), (123, 2421), (131, 2463),

Gene: Anekin_50 Start: 31927, Stop: 32388, Start Num: 90

Candidate Starts for Anekin_50:

(Start: 90 @31927 has 13 MA's), (120, 32059), (131, 32113), (154, 32266), (160, 32299),

Gene: ArcherS7_222 Start: 125894, Stop: 126577, Start Num: 23

Candidate Starts for ArcherS7_222:

(Start: 22 @125882 has 33 MA's), (Start: 23 @125894 has 4 MA's), (Start: 24 @125903 has 1 MA's), (Start: 74 @126083 has 5 MA's), (136, 126341), (137, 126344), (150, 126437), (154, 126452), (166, 126518), (167, 126521),

Gene: Ariel_46 Start: 36674, Stop: 37219, Start Num: 52

Candidate Starts for Ariel_46:

(15, 36455), (19, 36512), (30, 36590), (46, 36656), (50, 36671), (Start: 52 @36674 has 20 MA's), (Start: 73 @36731 has 6 MA's), (99, 36788), (128, 36938), (147, 37067), (168, 37175), (171, 37187), (172, 37190),

Gene: Ashwin_55 Start: 26608, Stop: 27207, Start Num: 41

Candidate Starts for Ashwin_55:

(Start: 41 @26608 has 18 MA's), (48, 26623), (109, 26833), (121, 26896), (128, 26926), (135, 26980), (136, 26986), (137, 26989), (147, 27052), (151, 27076),

Gene: Bangla1971_222 Start: 124846, Stop: 125541, Start Num: 22

Candidate Starts for Bangla1971_222:

(Start: 22 @124846 has 33 MA's), (Start: 23 @124858 has 4 MA's), (Start: 24 @124867 has 1 MA's), (Start: 74 @125047 has 5 MA's), (136, 125305), (137, 125308), (150, 125401), (154, 125416), (166, 125482), (167, 125485),

Gene: BasketStar_55 Start: 32988, Stop: 33449, Start Num: 90

Candidate Starts for BasketStar_55:

(Start: 90 @32988 has 13 MA's), (120, 33120), (131, 33174), (154, 33327), (160, 33360),

Gene: BasketStar_92 Start: 50831, Stop: 51406, Start Num: 47

Candidate Starts for BasketStar_92:

(3, 50411), (28, 50747), (29, 50750), (47, 50831), (Start: 61 @50873 has 2 MA's), (Start: 81 @50921 has 16 MA's), (Start: 88 @50939 has 1 MA's), (116, 51068), (145, 51242), (147, 51251),

Gene: Bauer_91 Start: 48793, Stop: 49275, Start Num: 81

Candidate Starts for Bauer_91:

(Start: 61 @48748 has 2 MA's), (Start: 69 @48769 has 2 MA's), (Start: 81 @48793 has 16 MA's), (123, 48958), (128, 48985), (131, 49000), (134, 49021), (135, 49036), (141, 49075), (166, 49216), (168, 49225),

Gene: BeanWater_214 Start: 123873, Stop: 124568, Start Num: 22

Candidate Starts for BeanWater_214:

(Start: 22 @123873 has 33 MA's), (Start: 24 @123894 has 1 MA's), (Start: 74 @124074 has 5 MA's), (136, 124332), (137, 124335), (150, 124428), (154, 124443), (166, 124509), (167, 124512),

Gene: BenchScraper_52 Start: 31813, Stop: 32274, Start Num: 90

Candidate Starts for BenchScraper_52:

(Start: 90 @31813 has 13 MA's), (120, 31945), (131, 31999), (154, 32152), (160, 32185),

Gene: BenchScraper_93 Start: 49693, Stop: 50208, Start Num: 53

Candidate Starts for BenchScraper_93:

(Start: 53 @49693 has 1 MA's), (Start: 81 @49759 has 16 MA's), (128, 49933), (144, 50029),

Gene: Bhageatrice_56 Start: 34427, Stop: 34927, Start Num: 73

Candidate Starts for Bhageatrice_56:

(5, 33977), (Start: 73 @34427 has 6 MA's), (94, 34475), (130, 34640), (154, 34802),

Gene: Bhageatrice_37 Start: 26729, Stop: 27340, Start Num: 70

Candidate Starts for Bhageatrice_37:

(44, 26657), (Start: 70 @26729 has 3 MA's), (107, 26855), (132, 26984), (137, 27020), (139, 27041), (166, 27203), (179, 27278),

Gene: BillyTP_83 Start: 47477, Stop: 47989, Start Num: 85

Candidate Starts for BillyTP_83:

(7, 47093), (13, 47171), (39, 47357), (Start: 85 @47477 has 6 MA's), (112, 47585), (123, 47627), (129, 47657), (130, 47660), (135, 47705), (148, 47792), (159, 47849), (166, 47888), (171, 47909),

Gene: BillyTP_55 Start: 33684, Stop: 34145, Start Num: 90

Candidate Starts for BillyTP_55:

(Start: 90 @33684 has 13 MA's), (120, 33816), (131, 33870), (154, 34023), (160, 34056),

Gene: BillyTP_41 Start: 27467, Stop: 27946, Start Num: 81

Candidate Starts for BillyTP_41:

(Start: 61 @27422 has 2 MA's), (Start: 69 @27443 has 2 MA's), (Start: 81 @27467 has 16 MA's), (128, 27659), (137, 27719), (158, 27851),

Gene: BlackSpider_81 Start: 48788, Stop: 49288, Start Num: 81

Candidate Starts for BlackSpider_81:

(1, 48227), (6, 48407), (29, 48617), (47, 48698), (Start: 61 @48740 has 2 MA's), (Start: 81 @48788 has 16 MA's), (Start: 88 @48806 has 1 MA's), (116, 48935), (147, 49118),

Gene: Blackbrain_219 Start: 124432, Stop: 125127, Start Num: 22

Candidate Starts for Blackbrain_219:

(Start: 22 @124432 has 33 MA's), (Start: 24 @124453 has 1 MA's), (Start: 74 @124633 has 5 MA's), (136, 124891), (137, 124894), (150, 124987), (154, 125002), (166, 125068), (167, 125071),

Gene: BlueShadow_80 Start: 46732, Stop: 47244, Start Num: 85

Candidate Starts for BlueShadow_80:

(7, 46348), (13, 46426), (Start: 85 @46732 has 6 MA's), (112, 46840), (123, 46882), (129, 46912), (130, 46915), (135, 46960), (148, 47047), (159, 47104), (166, 47143), (171, 47164),

Gene: BlueShadow_38 Start: 26032, Stop: 26511, Start Num: 81

Candidate Starts for BlueShadow_38:

(Start: 81 @26032 has 16 MA's), (128, 26224), (137, 26284),

Gene: BlueShadow_53 Start: 32474, Stop: 32935, Start Num: 90

Candidate Starts for BlueShadow_53:

(Start: 90 @32474 has 13 MA's), (120, 32606), (131, 32660), (134, 32681), (154, 32813), (160, 32846),

Gene: BobaPhatt_214 Start: 123572, Stop: 124246, Start Num: 24

Candidate Starts for BobaPhatt_214:

(Start: 22 @123551 has 33 MA's), (Start: 24 @123572 has 1 MA's), (Start: 74 @123752 has 5 MA's), (136, 124010), (137, 124013), (150, 124106), (154, 124121), (166, 124187), (167, 124190),

Gene: Bobby_46 Start: 39072, Stop: 39560, Start Num: 73

Candidate Starts for Bobby_46:

(Start: 73 @39072 has 6 MA's), (108, 39189), (123, 39252), (128, 39279), (154, 39441), (168, 39516), (172, 39531),

Gene: Bobi_15 Start: 9361, Stop: 9900, Start Num: 52

Candidate Starts for Bobi_15:

(Start: 52 @9361 has 20 MA's), (98, 9478), (100, 9490), (128, 9622), (145, 9736), (147, 9745),

Gene: Bora_94 Start: 59313, Stop: 58804, Start Num: 87

Candidate Starts for Bora_94:

(32, 59475), (Start: 87 @59313 has 2 MA's), (100, 59277), (115, 59169), (116, 59166), (123, 59139), (152, 58947), (171, 58854), (174, 58836),

Gene: BruhMoment_72 Start: 48708, Stop: 48223, Start Num: 83

Candidate Starts for BruhMoment_72:

(Start: 83 @48708 has 2 MA's), (89, 48693), (100, 48657), (103, 48642), (104, 48633), (124, 48540), (129, 48513),

Gene: Bubbles123_14 Start: 9517, Stop: 10056, Start Num: 52

Candidate Starts for Bubbles123_14:

(Start: 41 @9490 has 18 MA's), (49, 9508), (Start: 52 @9517 has 20 MA's), (98, 9634), (100, 9646), (128, 9778), (147, 9901),

Gene: BuzzLyseyear_15 Start: 9319, Stop: 9879, Start Num: 41

Candidate Starts for BuzzLyseyear_15:

(Start: 41 @9319 has 18 MA's), (Start: 52 @9340 has 20 MA's), (98, 9457), (100, 9469), (128, 9601), (145, 9715), (147, 9724),

Gene: Cactojaque_217 Start: 123379, Stop: 124074, Start Num: 22

Candidate Starts for Cactojaque_217:

(Start: 22 @123379 has 33 MA's), (Start: 23 @123391 has 4 MA's), (Start: 24 @123400 has 1 MA's), (Start: 74 @123580 has 5 MA's), (136, 123838), (137, 123841), (150, 123934), (154, 123949), (166, 124015), (167, 124018),

Gene: Cane17_77 Start: 32003, Stop: 32473, Start Num: 90

Candidate Starts for Cane17_77:

(26, 31814), (37, 31868), (57, 31925), (Start: 67 @31952 has 1 MA's), (68, 31955), (Start: 83 @31988 has 2 MA's), (Start: 90 @32003 has 13 MA's), (115, 32117), (123, 32147), (124, 32150), (128, 32174), (143, 32276), (147, 32306), (154, 32345), (159, 32372), (161, 32384), (175, 32459), (177, 32462),

Gene: Cassini_39 Start: 27297, Stop: 26728, Start Num: 40

Candidate Starts for Cassini_39:

(Start: 40 @27297 has 5 MA's), (Start: 63 @27231 has 1 MA's), (100, 27159), (110, 27099), (112, 27090), (123, 27048), (166, 26787),

Gene: Cassini_30 Start: 23657, Stop: 24136, Start Num: 81

Candidate Starts for Cassini_30:

(Start: 69 @23633 has 2 MA's), (Start: 81 @23657 has 16 MA's), (116, 23795), (128, 23849), (158, 24041), (159, 24044),

Gene: Cassini_50 Start: 31783, Stop: 32283, Start Num: 73

Candidate Starts for Cassini_50:

(Start: 73 @31783 has 6 MA's), (94, 31831), (124, 31966), (130, 31996), (154, 32158),

Gene: ChaylaJr_220 Start: 124047, Stop: 124742, Start Num: 22

Candidate Starts for ChaylaJr_220:

(Start: 22 @124047 has 33 MA's), (Start: 23 @124059 has 4 MA's), (Start: 24 @124068 has 1 MA's), (Start: 74 @124248 has 5 MA's), (136, 124506), (137, 124509), (150, 124602), (154, 124617), (166, 124683), (167, 124686),

Gene: Cheesepuff_14 Start: 9481, Stop: 10047, Start Num: 41

Candidate Starts for Cheesepuff_14:

(Start: 41 @9481 has 18 MA's), (49, 9499), (Start: 52 @9508 has 20 MA's), (98, 9625), (100, 9637), (128, 9769), (147, 9892),

Gene: Chomp_222 Start: 126129, Stop: 126824, Start Num: 22

Candidate Starts for Chomp_222:

(Start: 22 @126129 has 33 MA's), (Start: 23 @126141 has 4 MA's), (Start: 24 @126150 has 1 MA's), (Start: 74 @126330 has 5 MA's), (136, 126588), (137, 126591), (150, 126684), (154, 126699), (166, 126765), (167, 126768),

Gene: Coco12_15 Start: 9318, Stop: 9878, Start Num: 41

Candidate Starts for Coco12_15:

(Start: 41 @9318 has 18 MA's), (Start: 52 @9339 has 20 MA's), (98, 9456), (100, 9468), (128, 9600), (145, 9714), (147, 9723),

Gene: Corndog_56 Start: 27158, Stop: 27757, Start Num: 41

Candidate Starts for Corndog_56:

(Start: 41 @27158 has 18 MA's), (48, 27173), (109, 27383), (121, 27446), (128, 27476), (135, 27530), (136, 27536), (137, 27539), (147, 27602), (151, 27626),

Gene: Courthouse_46 Start: 37078, Stop: 37623, Start Num: 52

Candidate Starts for Courthouse_46:

(15, 36859), (19, 36916), (30, 36994), (46, 37060), (50, 37075), (Start: 52 @37078 has 20 MA's), (Start: 73 @37135 has 6 MA's), (99, 37192), (128, 37342), (147, 37471), (168, 37579), (171, 37591), (172, 37594),

Gene: Crescenzo_53 Start: 32978, Stop: 33439, Start Num: 90

Candidate Starts for Crescenzo_53:

(Start: 90 @32978 has 13 MA's), (120, 33110), (131, 33164), (154, 33317), (160, 33350),

Gene: DTDevon_224 Start: 126890, Stop: 127573, Start Num: 23

Candidate Starts for DTDevon_224:

(Start: 22 @126878 has 33 MA's), (Start: 23 @126890 has 4 MA's), (Start: 24 @126899 has 1 MA's), (Start: 74 @127079 has 5 MA's), (136, 127337), (137, 127340), (150, 127433), (154, 127448), (166, 127514), (167, 127517),

Gene: DaWorst_15 Start: 9345, Stop: 9884, Start Num: 52

Candidate Starts for DaWorst_15:

(Start: 41 @9324 has 18 MA's), (Start: 52 @9345 has 20 MA's), (98, 9462), (100, 9474), (128, 9606), (145, 9720), (147, 9729),

Gene: Derek_219 Start: 125406, Stop: 126101, Start Num: 22

Candidate Starts for Derek_219:

(Start: 22 @125406 has 33 MA's), (Start: 23 @125418 has 4 MA's), (Start: 24 @125427 has 1 MA's), (Start: 74 @125607 has 5 MA's), (136, 125865), (137, 125868), (150, 125961), (154, 125976), (166, 126042), (167, 126045),

Gene: Dessert_222 Start: 124406, Stop: 125101, Start Num: 22

Candidate Starts for Dessert_222:

(Start: 22 @124406 has 33 MA's), (Start: 23 @124418 has 4 MA's), (Start: 24 @124427 has 1 MA's), (Start: 74 @124607 has 5 MA's), (136, 124865), (137, 124868), (150, 124961), (154, 124976), (166, 125042), (167, 125045),

Gene: Divya_26 Start: 21127, Stop: 20543, Start Num: 40

Candidate Starts for Divya_26:

(31, 21172), (Start: 40 @21127 has 5 MA's), (128, 20836), (137, 20776), (138, 20758), (147, 20704), (155, 20662), (159, 20638), (175, 20551),

Gene: DoctorDiddles_43 Start: 34776, Stop: 34189, Start Num: 38

Candidate Starts for DoctorDiddles_43:

(Start: 38 @34776 has 5 MA's), (44, 34761), (60, 34716), (65, 34698), (76, 34674), (120, 34515), (124, 34500), (142, 34377), (146, 34353), (151, 34320), (153, 34314), (166, 34245), (167, 34242),

Gene: Doug_14 Start: 9472, Stop: 10032, Start Num: 41

Candidate Starts for Doug_14:

(Start: 41 @9472 has 18 MA's), (Start: 52 @9493 has 20 MA's), (98, 9610), (100, 9622), (128, 9754), (147, 9877),

Gene: Drazdys_220 Start: 125724, Stop: 126218, Start Num: 74

Candidate Starts for Drazdys_220:

(Start: 22 @125523 has 33 MA's), (Start: 23 @125535 has 4 MA's), (Start: 24 @125544 has 1 MA's), (Start: 74 @125724 has 5 MA's), (136, 125982), (137, 125985), (150, 126078), (154, 126093), (166, 126159), (167, 126162),

Gene: EmmaElysia_226 Start: 126285, Stop: 126980, Start Num: 22

Candidate Starts for EmmaElysia_226:

(Start: 22 @126285 has 33 MA's), (Start: 23 @126297 has 4 MA's), (Start: 24 @126306 has 1 MA's), (Start: 74 @126486 has 5 MA's), (136, 126744), (137, 126747), (150, 126840), (154, 126855), (166, 126921), (167, 126924),

Gene: Essence_219 Start: 124735, Stop: 125430, Start Num: 22

Candidate Starts for Essence_219:

(Start: 22 @124735 has 33 MA's), (Start: 23 @124747 has 4 MA's), (Start: 24 @124756 has 1 MA's), (Start: 74 @124936 has 5 MA's), (136, 125194), (137, 125197), (150, 125290), (154, 125305), (166, 125371), (167, 125374),

Gene: EvePickles_63 Start: 35612, Stop: 36130, Start Num: 70

Candidate Starts for EvePickles_63:

(Start: 70 @35612 has 3 MA's), (Start: 83 @35642 has 2 MA's), (Start: 90 @35657 has 13 MA's), (115, 35768), (121, 35795), (134, 35861), (163, 36038), (167, 36062), (178, 36116),

Gene: Faith5x5_46 Start: 31732, Stop: 32244, Start Num: 84

Candidate Starts for Faith5x5_46:

(16, 31432), (25, 31534), (36, 31603), (Start: 84 @31732 has 1 MA's), (Start: 87 @31738 has 2 MA's), (100, 31777), (104, 31801), (124, 31897), (138, 31999), (147, 32044), (169, 32170),

Gene: Faja_54 Start: 33652, Stop: 34113, Start Num: 90

Candidate Starts for Faja_54:

(Start: 90 @33652 has 13 MA's), (120, 33784), (131, 33838), (154, 33991), (160, 34024),

Gene: Firecracker_54 Start: 26311, Stop: 26910, Start Num: 41

Candidate Starts for Firecracker_54:

(Start: 41 @26311 has 18 MA's), (48, 26326), (56, 26353), (62, 26371), (109, 26536), (121, 26599), (128, 26629), (135, 26683), (136, 26689), (137, 26692), (147, 26755), (151, 26779),

Gene: Firehouse51_14 Start: 9532, Stop: 10071, Start Num: 52

Candidate Starts for Firehouse51_14:

(Start: 52 @9532 has 20 MA's), (98, 9649), (100, 9661), (128, 9793), (145, 9907), (147, 9916),

Gene: Fixie_213 Start: 125515, Stop: 126210, Start Num: 22

Candidate Starts for Fixie_213:

(Start: 22 @125515 has 33 MA's), (Start: 24 @125536 has 1 MA's), (Start: 74 @125716 has 5 MA's), (136, 125974), (137, 125977), (150, 126070), (154, 126085), (166, 126151), (167, 126154),

Gene: Flabslab_17 Start: 5449, Stop: 6036, Start Num: 38

Candidate Starts for Flabslab_17:

(Start: 38 @5449 has 5 MA's), (44, 5464), (60, 5509), (65, 5527), (76, 5551), (120, 5710), (124, 5725), (142, 5848), (146, 5872), (151, 5905), (153, 5911), (166, 5980), (167, 5983),

Gene: Ghost_222 Start: 124763, Stop: 125446, Start Num: 23

Candidate Starts for Ghost_222:

(Start: 22 @124751 has 33 MA's), (Start: 23 @124763 has 4 MA's), (Start: 24 @124772 has 1 MA's), (Start: 74 @124952 has 5 MA's), (136, 125210), (137, 125213), (150, 125306), (154, 125321), (166,

125387), (167, 125390),

Gene: GumGum_88 Start: 47517, Stop: 48029, Start Num: 85

Candidate Starts for GumGum_88:

(39, 47397), (Start: 85 @47517 has 6 MA's), (112, 47625), (123, 47667), (129, 47697), (130, 47700), (135, 47745), (148, 47832), (159, 47889), (166, 47928), (171, 47949),

Gene: Guwapp_217 Start: 123585, Stop: 124280, Start Num: 22

Candidate Starts for Guwapp_217:

(Start: 22 @123585 has 33 MA's), (Start: 23 @123597 has 4 MA's), (Start: 24 @123606 has 1 MA's), (Start: 74 @123786 has 5 MA's), (136, 124044), (137, 124047), (150, 124140), (154, 124155), (166, 124221), (167, 124224),

Gene: Hestia_76 Start: 44223, Stop: 44738, Start Num: 85

Candidate Starts for Hestia_76:

(7, 43839), (13, 43917), (39, 44103), (Start: 85 @44223 has 6 MA's), (112, 44331), (123, 44373), (129, 44403), (130, 44406), (135, 44451), (148, 44538), (159, 44595), (166, 44634), (171, 44655),

Gene: Hestia_48 Start: 30332, Stop: 30823, Start Num: 81

Candidate Starts for Hestia_48:

(Start: 81 @30332 has 16 MA's), (116, 30479), (128, 30530), (138, 30608), (140, 30617), (148, 30668), (152, 30692), (153, 30695),

Gene: Hidrated_45 Start: 40264, Stop: 40752, Start Num: 73

Candidate Starts for Hidrated_45:

(Start: 73 @40264 has 6 MA's), (108, 40381), (123, 40444), (128, 40471), (154, 40633), (168, 40708), (172, 40723),

Gene: Hillester_39 Start: 26218, Stop: 26697, Start Num: 81

Candidate Starts for Hillester_39:

(Start: 69 @26194 has 2 MA's), (Start: 81 @26218 has 16 MA's), (116, 26356), (128, 26410), (158, 26602), (159, 26605),

Gene: Hillester_57 Start: 33410, Stop: 33871, Start Num: 90

Candidate Starts for Hillester_57:

(Start: 90 @33410 has 13 MA's), (120, 33542), (131, 33596), (154, 33749), (160, 33782),

Gene: Holt_44 Start: 34891, Stop: 34304, Start Num: 38

Candidate Starts for Holt_44:

(Start: 38 @34891 has 5 MA's), (44, 34876), (60, 34831), (65, 34813), (76, 34789), (120, 34630), (124, 34615), (142, 34492), (146, 34468), (151, 34435), (153, 34429), (166, 34360), (167, 34357),

Gene: HyRo_210 Start: 124092, Stop: 124787, Start Num: 22

Candidate Starts for HyRo_210:

(Start: 22 @124092 has 33 MA's), (Start: 24 @124113 has 1 MA's), (Start: 74 @124293 has 5 MA's), (136, 124551), (137, 124554), (150, 124647), (154, 124662), (166, 124728), (167, 124731),

Gene: IkeLoa_214 Start: 124483, Stop: 125178, Start Num: 22

Candidate Starts for IkeLoa_214:

(Start: 22 @124483 has 33 MA's), (Start: 24 @124504 has 1 MA's), (Start: 74 @124684 has 5 MA's), (136, 124942), (137, 124945), (150, 125038), (154, 125053), (166, 125119), (167, 125122),

Gene: Isolde_80 Start: 46237, Stop: 46845, Start Num: 34

Candidate Starts for Isolde_80:

(Start: 34 @46237 has 1 MA's), (Start: 40 @46264 has 5 MA's), (100, 46420), (114, 46501), (128, 46558), (134, 46594), (147, 46687), (159, 46753),

Gene: JPickles_218 Start: 123489, Stop: 124184, Start Num: 22

Candidate Starts for JPickles_218:

(Start: 22 @123489 has 33 MA's), (Start: 23 @123501 has 4 MA's), (Start: 24 @123510 has 1 MA's), (Start: 74 @123690 has 5 MA's), (136, 123948), (137, 123951), (150, 124044), (154, 124059), (166, 124125), (167, 124128),

Gene: JakeTheSnake_59 Start: 34511, Stop: 34972, Start Num: 90

Candidate Starts for JakeTheSnake_59:

(11, 34181), (12, 34187), (14, 34193), (Start: 90 @34511 has 13 MA's), (106, 34574), (131, 34697), (147, 34811), (154, 34850), (160, 34883),

Gene: JakeTheSnake_97 Start: 53567, Stop: 54058, Start Num: 75

Candidate Starts for JakeTheSnake_97:

(Start: 41 @53477 has 18 MA's), (Start: 58 @53522 has 1 MA's), (64, 53543), (Start: 75 @53567 has 1 MA's), (145, 53885), (147, 53894),

Gene: JalFarm20_15 Start: 9339, Stop: 9878, Start Num: 52

Candidate Starts for JalFarm20_15:

(Start: 41 @9318 has 18 MA's), (Start: 52 @9339 has 20 MA's), (98, 9456), (100, 9468), (128, 9600), (145, 9714), (147, 9723),

Gene: Jaygup_218 Start: 124550, Stop: 125245, Start Num: 22

Candidate Starts for Jaygup_218:

(Start: 22 @124550 has 33 MA's), (Start: 23 @124562 has 4 MA's), (Start: 24 @124571 has 1 MA's), (Start: 74 @124751 has 5 MA's), (136, 125009), (137, 125012), (150, 125105), (154, 125120), (166, 125186), (167, 125189),

Gene: Jedediah_222 Start: 125603, Stop: 126298, Start Num: 22

Candidate Starts for Jedediah_222:

(Start: 22 @125603 has 33 MA's), (Start: 23 @125615 has 4 MA's), (Start: 24 @125624 has 1 MA's), (Start: 74 @125804 has 5 MA's), (136, 126062), (137, 126065), (150, 126158), (154, 126173), (166, 126239), (167, 126242),

Gene: JellyBread_89 Start: 51228, Stop: 51713, Start Num: 81

Candidate Starts for JellyBread_89:

(1, 50667), (6, 50847), (17, 50976), (29, 51057), (47, 51138), (Start: 61 @51180 has 2 MA's), (Start: 81 @51228 has 16 MA's), (Start: 88 @51246 has 1 MA's), (116, 51375), (145, 51549), (147, 51558), (160, 51630),

Gene: Jemmno_221 Start: 124633, Stop: 125127, Start Num: 74

Candidate Starts for Jemmno_221:

(Start: 22 @124432 has 33 MA's), (Start: 23 @124444 has 4 MA's), (Start: 24 @124453 has 1 MA's), (Start: 74 @124633 has 5 MA's), (136, 124891), (137, 124894), (150, 124987), (154, 125002), (166, 125068), (167, 125071),

Gene: Jinkies_23 Start: 19784, Stop: 19203, Start Num: 40

Candidate Starts for Jinkies_23:

(Start: 40 @19784 has 5 MA's), (71, 19700), (100, 19628), (117, 19538), (147, 19364), (154, 19325), (168, 19250),

Gene: Job42_15 Start: 9341, Stop: 9901, Start Num: 41

Candidate Starts for Job42_15:

(Start: 41 @9341 has 18 MA's), (Start: 52 @9362 has 20 MA's), (98, 9479), (100, 9491), (128, 9623), (145, 9737), (147, 9746),

Gene: Kabloowy_92 Start: 51624, Stop: 52205, Start Num: 41

Candidate Starts for Kabloowy_92:

(Start: 41 @51624 has 18 MA's), (Start: 58 @51669 has 1 MA's), (64, 51690), (Start: 75 @51714 has 1 MA's), (145, 52032), (147, 52041),

Gene: KingPhillip3_95 Start: 59234, Stop: 58725, Start Num: 87

Candidate Starts for KingPhillip3_95:

(32, 59396), (Start: 87 @59234 has 2 MA's), (100, 59198), (115, 59090), (116, 59087), (123, 59060), (152, 58868), (171, 58775), (174, 58757),

Gene: Lasker_92 Start: 52381, Stop: 52872, Start Num: 75

Candidate Starts for Lasker_92:

(Start: 58 @52336 has 1 MA's), (64, 52357), (Start: 75 @52381 has 1 MA's), (145, 52699), (147, 52708),

Gene: Latretium_14 Start: 9454, Stop: 10020, Start Num: 41

Candidate Starts for Latretium_14:

(Start: 41 @9454 has 18 MA's), (49, 9472), (Start: 52 @9481 has 20 MA's), (98, 9598), (100, 9610), (128, 9742), (147, 9865),

Gene: Lawnathon_84 Start: 46589, Stop: 47101, Start Num: 85

Candidate Starts for Lawnathon_84:

(7, 46205), (13, 46283), (39, 46469), (Start: 85 @46589 has 6 MA's), (112, 46697), (123, 46739), (129, 46769), (130, 46772), (135, 46817), (148, 46904), (159, 46961), (166, 47000), (171, 47021),

Gene: LeBruni_54 Start: 32055, Stop: 32546, Start Num: 81

Candidate Starts for LeBruni_54:

(Start: 81 @32055 has 16 MA's), (97, 32091), (116, 32202), (128, 32253), (138, 32331), (152, 32415),

Gene: LifeSavor_221 Start: 125365, Stop: 126060, Start Num: 22

Candidate Starts for LifeSavor_221:

(Start: 22 @125365 has 33 MA's), (Start: 23 @125377 has 4 MA's), (Start: 24 @125386 has 1 MA's), (Start: 74 @125566 has 5 MA's), (136, 125824), (137, 125827), (150, 125920), (154, 125935), (166, 126001), (167, 126004),

Gene: Lucky2013_46 Start: 37214, Stop: 37759, Start Num: 52

Candidate Starts for Lucky2013_46:

(15, 36995), (19, 37052), (30, 37130), (46, 37196), (50, 37211), (Start: 52 @37214 has 20 MA's), (Start: 73 @37271 has 6 MA's), (99, 37328), (128, 37478), (147, 37607), (168, 37715), (171, 37727), (172, 37730),

Gene: MUWow_38 Start: 26240, Stop: 26719, Start Num: 81

Candidate Starts for MUWow_38:

(46, 26150), (Start: 69 @26216 has 2 MA's), (Start: 81 @26240 has 16 MA's), (128, 26432), (135, 26483), (137, 26492),

Gene: MUWow_96 Start: 53176, Stop: 53625, Start Num: 81

Candidate Starts for MUWow_96:

(Start: 53 @53110 has 1 MA's), (Start: 81 @53176 has 16 MA's), (128, 53350), (144, 53446),

Gene: MUWow_76 Start: 40648, Stop: 41133, Start Num: 78

Candidate Starts for MUWow_76:

(Start: 78 @40648 has 1 MA's), (120, 40795), (129, 40837), (135, 40885), (147, 40963),

Gene: MaterMagnus_82 Start: 47059, Stop: 47574, Start Num: 85

Candidate Starts for MaterMagnus_82:

(7, 46675), (13, 46753), (Start: 85 @47059 has 6 MA's), (112, 47167), (123, 47209), (129, 47239),
(130, 47242), (135, 47287), (148, 47374), (159, 47431), (166, 47470), (171, 47491),

Gene: MaterMagnus_85 Start: 48532, Stop: 49020, Start Num: 83

Candidate Starts for MaterMagnus_85:

(43, 48427), (Start: 83 @48532 has 2 MA's), (89, 48547), (124, 48706), (127, 48721), (130, 48736),
(139, 48811), (160, 48925), (164, 48952),

Gene: MaterMagnus_91 Start: 51277, Stop: 51762, Start Num: 81

Candidate Starts for MaterMagnus_91:

(29, 51106), (47, 51187), (Start: 61 @51229 has 2 MA's), (Start: 81 @51277 has 16 MA's), (Start: 88
@51295 has 1 MA's), (116, 51424), (145, 51598), (147, 51607),

Gene: MaterMagnus_56 Start: 33281, Stop: 33772, Start Num: 81

Candidate Starts for MaterMagnus_56:

(Start: 81 @33281 has 16 MA's), (97, 33317), (116, 33428), (128, 33479), (134, 33515), (138, 33557),
(152, 33641),

Gene: McGee_221 Start: 124476, Stop: 125171, Start Num: 22

Candidate Starts for McGee_221:

(Start: 22 @124476 has 33 MA's), (Start: 24 @124497 has 1 MA's), (Start: 74 @124677 has 5 MA's),
(136, 124935), (137, 124938), (150, 125031), (154, 125046), (166, 125112), (167, 125115),

Gene: MiaZeal_46 Start: 36889, Stop: 37434, Start Num: 52

Candidate Starts for MiaZeal_46:

(15, 36670), (19, 36727), (30, 36805), (46, 36871), (50, 36886), (Start: 52 @36889 has 20 MA's),
(Start: 73 @36946 has 6 MA's), (99, 37003), (128, 37153), (147, 37282), (168, 37390), (171, 37402),
(172, 37405),

Gene: MidnightRain_47 Start: 30287, Stop: 29718, Start Num: 40

Candidate Starts for MidnightRain_47:

(Start: 40 @30287 has 5 MA's), (Start: 63 @30221 has 1 MA's), (100, 30149), (110, 30089), (112,
30080), (123, 30038), (166, 29777),

Gene: MidnightRain_57 Start: 33591, Stop: 34052, Start Num: 90

Candidate Starts for MidnightRain_57:

(Start: 90 @33591 has 13 MA's), (120, 33723), (131, 33777), (154, 33930), (160, 33963),

Gene: Minnie_14 Start: 9482, Stop: 10042, Start Num: 41

Candidate Starts for Minnie_14:

(Start: 41 @9482 has 18 MA's), (Start: 52 @9503 has 20 MA's), (98, 9620), (100, 9632), (128, 9764),
(145, 9878), (147, 9887),

Gene: Moonbeam_14 Start: 9494, Stop: 10033, Start Num: 52

Candidate Starts for Moonbeam_14:

(Start: 52 @9494 has 20 MA's), (98, 9611), (100, 9623), (128, 9755), (145, 9869), (147, 9878),

Gene: Mori_53 Start: 26286, Stop: 26885, Start Num: 41

Candidate Starts for Mori_53:

(Start: 41 @26286 has 18 MA's), (48, 26301), (109, 26511), (121, 26574), (128, 26604), (135, 26658), (136, 26664), (137, 26667), (147, 26730), (151, 26754),

Gene: Murai_54 Start: 26476, Stop: 27075, Start Num: 41

Candidate Starts for Murai_54:

(Start: 41 @26476 has 18 MA's), (48, 26491), (109, 26701), (121, 26764), (128, 26794), (135, 26848), (136, 26854), (137, 26857), (147, 26920), (151, 26944),

Gene: MurphyJoseph_40 Start: 27665, Stop: 27162, Start Num: 63

Candidate Starts for MurphyJoseph_40:

(Start: 40 @27731 has 5 MA's), (Start: 63 @27665 has 1 MA's), (100, 27593), (134, 27419),

Gene: MurphyJoseph_52 Start: 31584, Stop: 32126, Start Num: 61

Candidate Starts for MurphyJoseph_52:

(Start: 61 @31584 has 2 MA's), (94, 31662), (125, 31803),

Gene: MurphyJoseph_81 Start: 45441, Stop: 45953, Start Num: 85

Candidate Starts for MurphyJoseph_81:

(7, 45057), (13, 45135), (39, 45321), (Start: 85 @45441 has 6 MA's), (112, 45549), (123, 45591), (129, 45621), (130, 45624), (135, 45669), (148, 45756), (159, 45813), (166, 45852), (171, 45873),

Gene: Myrna_250 Start: 152417, Stop: 152881, Start Num: 72

Candidate Starts for Myrna_250:

(Start: 72 @152417 has 1 MA's), (Start: 74 @152420 has 5 MA's), (Start: 90 @152456 has 13 MA's), (92, 152459), (96, 152471), (101, 152507), (105, 152525), (123, 152612), (130, 152645), (135, 152690), (136, 152696), (147, 152747), (156, 152792), (165, 152849),

Gene: Nappy_90 Start: 35968, Stop: 36438, Start Num: 90

Candidate Starts for Nappy_90:

(26, 35779), (37, 35833), (57, 35890), (Start: 67 @35917 has 1 MA's), (68, 35920), (Start: 83 @35953 has 2 MA's), (Start: 90 @35968 has 13 MA's), (115, 36082), (123, 36112), (124, 36115), (128, 36139), (143, 36241), (147, 36271), (154, 36310), (159, 36337), (161, 36349), (175, 36424), (177, 36427),

Gene: Nappy_223 Start: 126433, Stop: 126927, Start Num: 74

Candidate Starts for Nappy_223:

(Start: 22 @126232 has 33 MA's), (Start: 23 @126244 has 4 MA's), (Start: 24 @126253 has 1 MA's), (Start: 74 @126433 has 5 MA's), (136, 126691), (137, 126694), (150, 126787), (154, 126802), (166, 126868), (167, 126871),

Gene: NewKitty_46 Start: 29058, Stop: 28480, Start Num: 40

Candidate Starts for NewKitty_46:

(8, 29316), (18, 29187), (20, 29169), (21, 29166), (27, 29124), (31, 29103), (Start: 40 @29058 has 5 MA's), (117, 28827),

Gene: NewKitty_69 Start: 35732, Stop: 36250, Start Num: 70

Candidate Starts for NewKitty_69:

(Start: 70 @35732 has 3 MA's), (Start: 83 @35762 has 2 MA's), (115, 35888), (128, 35945), (134, 35981), (167, 36182), (178, 36236),

Gene: Ngannou_219 Start: 123822, Stop: 124517, Start Num: 22

Candidate Starts for Ngannou_219:

(Start: 22 @123822 has 33 MA's), (Start: 23 @123834 has 4 MA's), (Start: 24 @123843 has 1 MA's), (Start: 74 @124023 has 5 MA's), (136, 124281), (137, 124284), (150, 124377), (154, 124392), (166, 124458), (167, 124461),

Gene: Nyilah_54 Start: 31262, Stop: 31804, Start Num: 61

Candidate Starts for Nyilah_54:

(Start: 61 @31262 has 2 MA's), (77, 31304), (94, 31340), (123, 31475), (125, 31481),

Gene: Ollypop_83 Start: 52100, Stop: 51516, Start Num: 42

Candidate Starts for Ollypop_83:

(35, 52130), (Start: 42 @52100 has 1 MA's), (44, 52097), (54, 52067), (60, 52052), (Start: 63 @52037 has 1 MA's), (100, 51947), (129, 51806), (142, 51710), (147, 51677), (151, 51647), (154, 51638), (175, 51524),

Gene: Ollypop_77 Start: 49851, Stop: 49363, Start Num: 82

Candidate Starts for Ollypop_77:

(Start: 82 @49851 has 1 MA's), (100, 49797), (119, 49698), (122, 49686), (124, 49680), (129, 49653), (159, 49467),

Gene: OwlsT2W_15 Start: 9352, Stop: 9891, Start Num: 52

Candidate Starts for OwlsT2W_15:

(Start: 41 @9331 has 18 MA's), (Start: 52 @9352 has 20 MA's), (98, 9469), (100, 9481), (128, 9613), (145, 9727), (147, 9736),

Gene: Patter_223 Start: 124854, Stop: 125549, Start Num: 22

Candidate Starts for Patter_223:

(Start: 22 @124854 has 33 MA's), (Start: 23 @124866 has 4 MA's), (Start: 24 @124875 has 1 MA's), (Start: 74 @125055 has 5 MA's), (136, 125313), (137, 125316), (150, 125409), (154, 125424), (166, 125490), (167, 125493),

Gene: Persistence_41 Start: 28068, Stop: 28532, Start Num: 86

Candidate Starts for Persistence_41:

(Start: 86 @28068 has 2 MA's), (111, 28164), (128, 28236), (134, 28272), (137, 28296), (145, 28359), (149, 28386),

Gene: Persistence_49 Start: 31206, Stop: 31667, Start Num: 90

Candidate Starts for Persistence_49:

(11, 30876), (12, 30882), (14, 30888), (Start: 90 @31206 has 13 MA's), (131, 31392), (154, 31545), (160, 31578),

Gene: Persistence_67 Start: 37115, Stop: 37588, Start Num: 88

Candidate Starts for Persistence_67:

(Start: 88 @37115 has 1 MA's), (110, 37217), (116, 37241), (120, 37256), (145, 37415), (154, 37463), (167, 37532), (175, 37577),

Gene: Persistence_34 Start: 24603, Stop: 25106, Start Num: 69

Candidate Starts for Persistence_34:

(46, 24537), (Start: 69 @24603 has 2 MA's), (Start: 81 @24627 has 16 MA's), (115, 24762), (116, 24765), (128, 24819), (137, 24879), (166, 25053),

Gene: Peterson_6 Start: 3021, Stop: 3500, Start Num: 80
Candidate Starts for Peterson_6:
(Start: 80 @3021 has 5 MA's), (120, 3180), (123, 3192), (131, 3234),

Gene: Phasih_14 Start: 9525, Stop: 10064, Start Num: 52
Candidate Starts for Phasih_14:
(Start: 41 @9504 has 18 MA's), (Start: 52 @9525 has 20 MA's), (98, 9642), (100, 9654), (128, 9786),
(145, 9900), (147, 9909),

Gene: Phatniss_14 Start: 9487, Stop: 10026, Start Num: 52
Candidate Starts for Phatniss_14:
(Start: 52 @9487 has 20 MA's), (98, 9604), (100, 9616), (128, 9748), (145, 9862), (147, 9871),

Gene: Phrank15_38 Start: 25579, Stop: 26058, Start Num: 81
Candidate Starts for Phrank15_38:
(46, 25489), (Start: 69 @25555 has 2 MA's), (Start: 81 @25579 has 16 MA's), (128, 25771), (135, 25822), (137, 25831),

Gene: Phrank15_56 Start: 32976, Stop: 33476, Start Num: 73
Candidate Starts for Phrank15_56:
(5, 32526), (10, 32664), (Start: 73 @32976 has 6 MA's), (94, 33024), (130, 33189), (154, 33351),

Gene: Phusco_220 Start: 124375, Stop: 125070, Start Num: 22
Candidate Starts for Phusco_220:
(Start: 22 @124375 has 33 MA's), (Start: 23 @124387 has 4 MA's), (Start: 24 @124396 has 1 MA's),
(Start: 74 @124576 has 5 MA's), (136, 124834), (137, 124837), (150, 124930), (154, 124945), (166, 125011), (167, 125014),

Gene: Pitbull_27 Start: 21048, Stop: 21602, Start Num: 61
Candidate Starts for Pitbull_27:
(Start: 61 @21048 has 2 MA's), (126, 21300), (128, 21312), (135, 21363), (154, 21480), (163, 21525),

Gene: Polka14_14 Start: 9487, Stop: 10026, Start Num: 52
Candidate Starts for Polka14_14:
(Start: 41 @9466 has 18 MA's), (Start: 52 @9487 has 20 MA's), (98, 9604), (100, 9616), (128, 9748),
(145, 9862), (147, 9871),

Gene: Porcelain_45 Start: 36889, Stop: 37434, Start Num: 52
Candidate Starts for Porcelain_45:
(15, 36670), (19, 36727), (30, 36805), (46, 36871), (50, 36886), (Start: 52 @36889 has 20 MA's),
(Start: 73 @36946 has 6 MA's), (99, 37003), (128, 37153), (147, 37282), (168, 37390), (171, 37402),
(172, 37405),

Gene: Quasimodo_224 Start: 125176, Stop: 125871, Start Num: 22
Candidate Starts for Quasimodo_224:
(Start: 22 @125176 has 33 MA's), (Start: 23 @125188 has 4 MA's), (Start: 24 @125197 has 1 MA's),
(Start: 74 @125377 has 5 MA's), (136, 125635), (137, 125638), (150, 125731), (154, 125746), (166, 125812), (167, 125815),

Gene: RadFad_57 Start: 33410, Stop: 33871, Start Num: 90
Candidate Starts for RadFad_57:
(Start: 90 @33410 has 13 MA's), (120, 33542), (131, 33596), (154, 33749), (160, 33782),

Gene: RadFad_39 Start: 26218, Stop: 26697, Start Num: 81

Candidate Starts for RadFad_39:

(Start: 69 @26194 has 2 MA's), (Start: 81 @26218 has 16 MA's), (116, 26356), (128, 26410), (158, 26602), (159, 26605),

Gene: Rahel_223 Start: 125278, Stop: 125973, Start Num: 22

Candidate Starts for Rahel_223:

(Start: 22 @125278 has 33 MA's), (Start: 23 @125290 has 4 MA's), (Start: 24 @125299 has 1 MA's), (Start: 74 @125479 has 5 MA's), (136, 125737), (137, 125740), (150, 125833), (154, 125848), (166, 125914), (167, 125917),

Gene: Raqqa_97 Start: 52473, Stop: 52976, Start Num: 81

Candidate Starts for Raqqa_97:

(Start: 81 @52473 has 16 MA's), (106, 52554), (123, 52638), (128, 52665), (131, 52680), (134, 52701), (135, 52716), (141, 52755), (166, 52896), (168, 52905), (176, 52944),

Gene: Raqqa_45 Start: 29275, Stop: 29736, Start Num: 90

Candidate Starts for Raqqa_45:

(Start: 90 @29275 has 13 MA's), (120, 29407), (131, 29461), (154, 29614), (160, 29647),

Gene: Raqqa_48 Start: 30332, Stop: 30787, Start Num: 97

Candidate Starts for Raqqa_48:

(Start: 81 @30296 has 16 MA's), (97, 30332), (116, 30443), (128, 30494), (134, 30530), (138, 30572), (152, 30656),

Gene: Rialto_15 Start: 9346, Stop: 9885, Start Num: 52

Candidate Starts for Rialto_15:

(Start: 52 @9346 has 20 MA's), (98, 9463), (100, 9475), (128, 9607), (145, 9721), (147, 9730),

Gene: Richie_96 Start: 52435, Stop: 52971, Start Num: 58

Candidate Starts for Richie_96:

(9, 52150), (Start: 58 @52435 has 1 MA's), (64, 52456), (Start: 75 @52480 has 1 MA's), (123, 52651), (124, 52654), (145, 52798), (168, 52921),

Gene: Salacia_222 Start: 125681, Stop: 126376, Start Num: 22

Candidate Starts for Salacia_222:

(Start: 22 @125681 has 33 MA's), (Start: 23 @125693 has 4 MA's), (Start: 24 @125702 has 1 MA's), (Start: 74 @125882 has 5 MA's), (136, 126140), (137, 126143), (150, 126236), (154, 126251), (166, 126317), (167, 126320),

Gene: Sandalphon_14 Start: 9504, Stop: 10043, Start Num: 52

Candidate Starts for Sandalphon_14:

(Start: 52 @9504 has 20 MA's), (98, 9621), (100, 9633), (128, 9765), (145, 9879), (147, 9888),

Gene: Sarge_50 Start: 29604, Stop: 30206, Start Num: 38

Candidate Starts for Sarge_50:

(Start: 38 @29604 has 5 MA's), (66, 29688), (79, 29715), (93, 29742), (100, 29772), (120, 29868), (128, 29907),

Gene: Sarge_34 Start: 24292, Stop: 24756, Start Num: 90

Candidate Starts for Sarge_34:

(Start: 90 @24292 has 13 MA's), (123, 24436), (173, 24733),

Gene: Satrap_73 Start: 38750, Stop: 39217, Start Num: 83

Candidate Starts for Satrap_73:

(51, 38669), (Start: 83 @38750 has 2 MA's), (120, 38894), (128, 38933), (129, 38936), (134, 38969), (147, 39062), (154, 39101),

Gene: Sauce_218 Start: 124492, Stop: 125187, Start Num: 22

Candidate Starts for Sauce_218:

(Start: 22 @124492 has 33 MA's), (Start: 23 @124504 has 4 MA's), (Start: 24 @124513 has 1 MA's), (Start: 74 @124693 has 5 MA's), (136, 124951), (137, 124954), (150, 125047), (154, 125062), (166, 125128), (167, 125131),

Gene: SharkTale_7 Start: 4424, Stop: 4984, Start Num: 80

Candidate Starts for SharkTale_7:

(Start: 80 @4424 has 5 MA's), (94, 4457), (102, 4496), (140, 4718), (157, 4820), (162, 4841), (170, 4892),

Gene: ShawBrad_104 Start: 53519, Stop: 54079, Start Num: 40

Candidate Starts for ShawBrad_104:

(33, 53495), (Start: 40 @53519 has 5 MA's), (95, 53639), (99, 53651), (123, 53759), (133, 53816), (147, 53915), (154, 53954), (159, 53981),

Gene: ShiaLabeouf_219 Start: 124687, Stop: 125181, Start Num: 74

Candidate Starts for ShiaLabeouf_219:

(Start: 22 @124486 has 33 MA's), (Start: 23 @124498 has 4 MA's), (Start: 24 @124507 has 1 MA's), (Start: 74 @124687 has 5 MA's), (136, 124945), (137, 124948), (150, 125041), (154, 125056), (166, 125122), (167, 125125),

Gene: Shifa_199 Start: 124061, Stop: 124756, Start Num: 22

Candidate Starts for Shifa_199:

(Start: 22 @124061 has 33 MA's), (Start: 24 @124082 has 1 MA's), (Start: 74 @124262 has 5 MA's), (136, 124520), (137, 124523), (150, 124616), (154, 124631), (166, 124697), (167, 124700),

Gene: Shnickers_220 Start: 124550, Stop: 125245, Start Num: 22

Candidate Starts for Shnickers_220:

(Start: 22 @124550 has 33 MA's), (Start: 23 @124562 has 4 MA's), (Start: 24 @124571 has 1 MA's), (Start: 74 @124751 has 5 MA's), (136, 125009), (137, 125012), (150, 125105), (154, 125120), (166, 125186), (167, 125189),

Gene: Shukran_92 Start: 50394, Stop: 50843, Start Num: 81

Candidate Starts for Shukran_92:

(54, 50334), (Start: 81 @50394 has 16 MA's), (128, 50568), (144, 50664),

Gene: Shukran_48 Start: 30453, Stop: 30917, Start Num: 91

Candidate Starts for Shukran_48:

(Start: 91 @30453 has 1 MA's), (118, 30579), (128, 30627),

Gene: Sisko_10 Start: 10106, Stop: 9555, Start Num: 55

Candidate Starts for Sisko_10:

(Start: 55 @10106 has 1 MA's), (Start: 88 @10022 has 1 MA's), (100, 9992), (110, 9926), (130, 9839), (134, 9806), (137, 9782), (145, 9722), (166, 9608),

Gene: SmallFry_222 Start: 124644, Stop: 125339, Start Num: 22

Candidate Starts for SmallFry_222:

(Start: 22 @124644 has 33 MA's), (Start: 23 @124656 has 4 MA's), (Start: 24 @124665 has 1 MA's), (Start: 74 @124845 has 5 MA's), (136, 125103), (137, 125106), (150, 125199), (154, 125214), (166, 125280), (167, 125283),

Gene: Smooch_56 Start: 27829, Stop: 28428, Start Num: 41

Candidate Starts for Smooch_56:

(Start: 41 @27829 has 18 MA's), (48, 27844), (109, 28054), (121, 28117), (128, 28147), (135, 28201), (136, 28207), (137, 28210), (147, 28273), (151, 28297),

Gene: SonDevVon_39 Start: 26563, Stop: 27042, Start Num: 81

Candidate Starts for SonDevVon_39:

(46, 26473), (Start: 69 @26539 has 2 MA's), (Start: 81 @26563 has 16 MA's), (128, 26755), (135, 26806), (137, 26815),

Gene: Spec_216 Start: 124823, Stop: 125518, Start Num: 22

Candidate Starts for Spec_216:

(Start: 22 @124823 has 33 MA's), (Start: 23 @124835 has 4 MA's), (Start: 24 @124844 has 1 MA's), (Start: 74 @125024 has 5 MA's), (136, 125282), (137, 125285), (150, 125378), (154, 125393), (166, 125459), (167, 125462),

Gene: SpicyFrank_59 Start: 33886, Stop: 34386, Start Num: 73

Candidate Starts for SpicyFrank_59:

(Start: 73 @33886 has 6 MA's), (94, 33934), (124, 34069), (130, 34099), (154, 34261),

Gene: Squint_45 Start: 37065, Stop: 37553, Start Num: 73

Candidate Starts for Squint_45:

(15, 36789), (19, 36846), (30, 36924), (46, 36990), (50, 37005), (Start: 52 @37008 has 20 MA's), (Start: 73 @37065 has 6 MA's), (99, 37122), (128, 37272), (147, 37401), (168, 37509), (171, 37521), (172, 37524),

Gene: Stellammi_131 Start: 61866, Stop: 62381, Start Num: 67

Candidate Starts for Stellammi_131:

(Start: 67 @61866 has 1 MA's), (113, 62028), (120, 62046), (128, 62085), (129, 62088), (145, 62205), (167, 62316),

Gene: Sunshine924_65 Start: 41214, Stop: 40627, Start Num: 38

Candidate Starts for Sunshine924_65:

(Start: 38 @41214 has 5 MA's), (44, 41199), (60, 41154), (65, 41136), (76, 41112), (120, 40953), (124, 40938), (142, 40815), (146, 40791), (151, 40758), (153, 40752), (166, 40683), (167, 40680),

Gene: SuperGrey_14 Start: 9478, Stop: 10038, Start Num: 41

Candidate Starts for SuperGrey_14:

(Start: 41 @9478 has 18 MA's), (Start: 52 @9499 has 20 MA's), (98, 9616), (100, 9628), (128, 9760), (145, 9874), (147, 9883),

Gene: Superphikiman_46 Start: 37080, Stop: 37625, Start Num: 52

Candidate Starts for Superphikiman_46:

(15, 36861), (19, 36918), (30, 36996), (46, 37062), (50, 37077), (Start: 52 @37080 has 20 MA's), (Start: 73 @37137 has 6 MA's), (99, 37194), (128, 37344), (147, 37473), (168, 37581), (171, 37593), (172, 37596),

Gene: Teardrop_219 Start: 124146, Stop: 124841, Start Num: 22

Candidate Starts for Teardrop_219:

(Start: 22 @124146 has 33 MA's), (Start: 23 @124158 has 4 MA's), (Start: 24 @124167 has 1 MA's),
(Start: 74 @124347 has 5 MA's), (136, 124605), (137, 124608), (150, 124701), (154, 124716), (166,
124782), (167, 124785),

Gene: Tiff81_42 Start: 27360, Stop: 27824, Start Num: 86

Candidate Starts for Tiff81_42:

(Start: 86 @27360 has 2 MA's), (128, 27528), (134, 27564), (137, 27588), (145, 27651), (149, 27678),

Gene: Tripl3t_5 Start: 2428, Stop: 2907, Start Num: 80

Candidate Starts for Tripl3t_5:

(Start: 80 @2428 has 5 MA's), (120, 2587), (123, 2599), (131, 2641),

Gene: Trouble_4 Start: 2065, Stop: 2544, Start Num: 80

Candidate Starts for Trouble_4:

(Start: 80 @2065 has 5 MA's), (120, 2224), (123, 2236), (131, 2278),

Gene: Tyke_220 Start: 126768, Stop: 127451, Start Num: 23

Candidate Starts for Tyke_220:

(Start: 22 @126756 has 33 MA's), (Start: 23 @126768 has 4 MA's), (Start: 24 @126777 has 1 MA's),
(Start: 74 @126957 has 5 MA's), (136, 127215), (137, 127218), (150, 127311), (154, 127326), (166,
127392), (167, 127395),

Gene: Violac_14 Start: 9472, Stop: 10032, Start Num: 41

Candidate Starts for Violac_14:

(Start: 41 @9472 has 18 MA's), (Start: 52 @9493 has 20 MA's), (98, 9610), (100, 9622), (128, 9754),
(145, 9868), (147, 9877),

Gene: Vopal_48 Start: 32400, Stop: 32864, Start Num: 86

Candidate Starts for Vopal_48:

(Start: 86 @32400 has 2 MA's), (128, 32568), (134, 32604), (137, 32628), (145, 32691), (149, 32718),

Gene: Vopal_42 Start: 29036, Stop: 29515, Start Num: 81

Candidate Starts for Vopal_42:

(Start: 61 @28991 has 2 MA's), (Start: 69 @29012 has 2 MA's), (Start: 81 @29036 has 16 MA's), (128,
29228), (137, 29288), (158, 29420),

Gene: Vopal_56 Start: 35307, Stop: 35768, Start Num: 90

Candidate Starts for Vopal_56:

(Start: 90 @35307 has 13 MA's), (120, 35439), (131, 35493), (154, 35646), (160, 35679),

Gene: Vorrps_53 Start: 26287, Stop: 26886, Start Num: 41

Candidate Starts for Vorrps_53:

(Start: 41 @26287 has 18 MA's), (48, 26302), (109, 26512), (121, 26575), (128, 26605), (135, 26659),
(136, 26665), (137, 26668), (147, 26731), (151, 26755),

Gene: Watermelon_6 Start: 2607, Stop: 3086, Start Num: 80

Candidate Starts for Watermelon_6:

(Start: 80 @2607 has 5 MA's), (120, 2766), (123, 2778), (131, 2820),

Gene: Wee_14 Start: 9531, Stop: 10070, Start Num: 52

Candidate Starts for Wee_14:

(Start: 52 @9531 has 20 MA's), (98, 9648), (100, 9660), (128, 9792), (145, 9906), (147, 9915),

Gene: Windest_39 Start: 25032, Stop: 25535, Start Num: 69

Candidate Starts for Windest_39:

(46, 24966), (Start: 69 @25032 has 2 MA's), (Start: 81 @25056 has 16 MA's), (128, 25248), (135, 25299), (137, 25308),

Gene: YoungMoneyMata_221 Start: 125308, Stop: 126003, Start Num: 22

Candidate Starts for YoungMoneyMata_221:

(Start: 22 @125308 has 33 MA's), (Start: 23 @125320 has 4 MA's), (Start: 24 @125329 has 1 MA's), (Start: 74 @125509 has 5 MA's), (136, 125767), (137, 125770), (150, 125863), (154, 125878), (166, 125944), (167, 125947),

Gene: YungJamal_57 Start: 27006, Stop: 27605, Start Num: 41

Candidate Starts for YungJamal_57:

(Start: 41 @27006 has 18 MA's), (48, 27021), (109, 27231), (121, 27294), (128, 27324), (135, 27378), (136, 27384), (137, 27387), (147, 27450), (151, 27474),

Gene: Zucker_62 Start: 35518, Stop: 36036, Start Num: 70

Candidate Starts for Zucker_62:

(Start: 70 @35518 has 3 MA's), (Start: 83 @35548 has 2 MA's), (115, 35674), (121, 35701), (128, 35731), (134, 35767), (136, 35788), (167, 35968), (178, 36022),