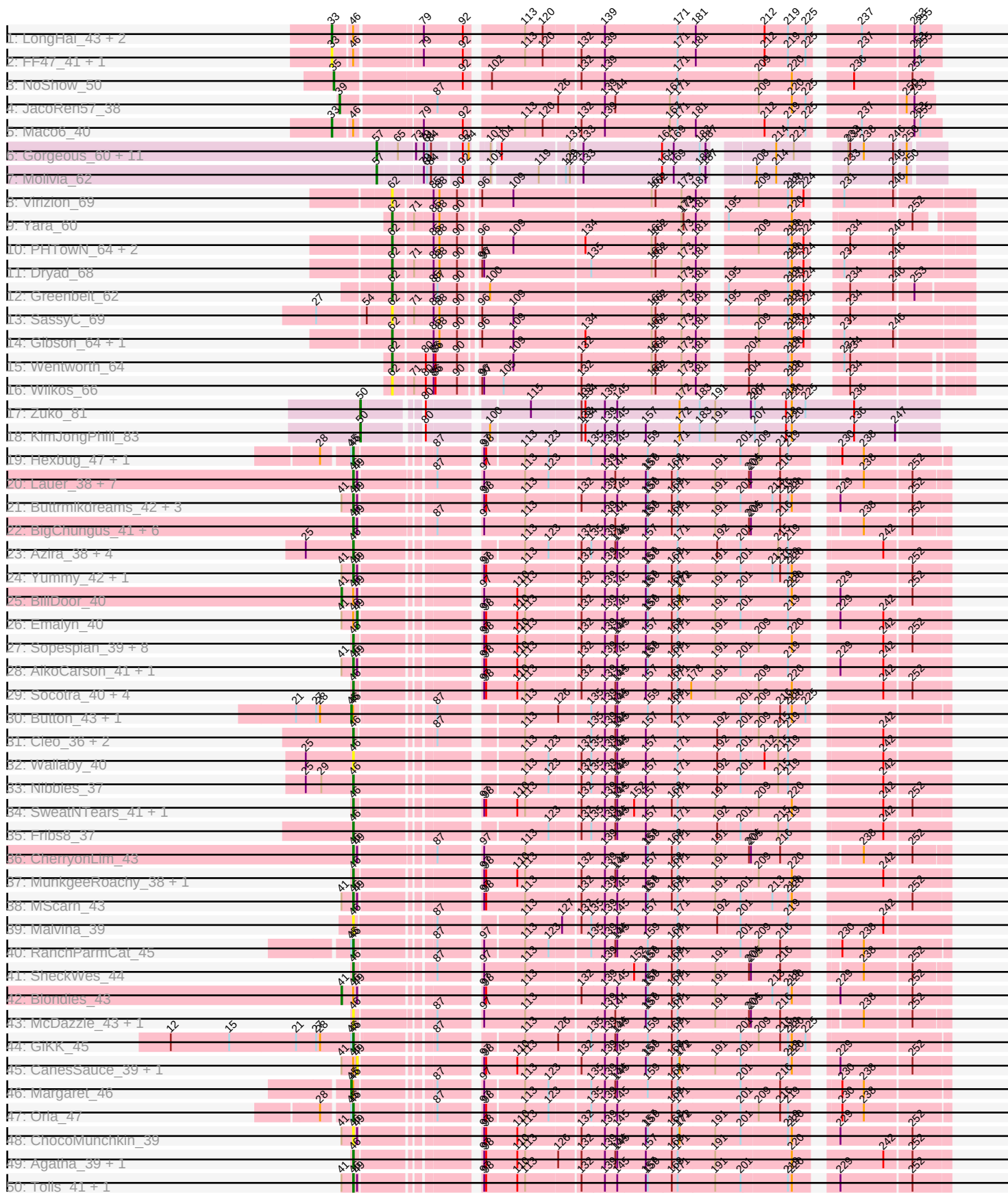
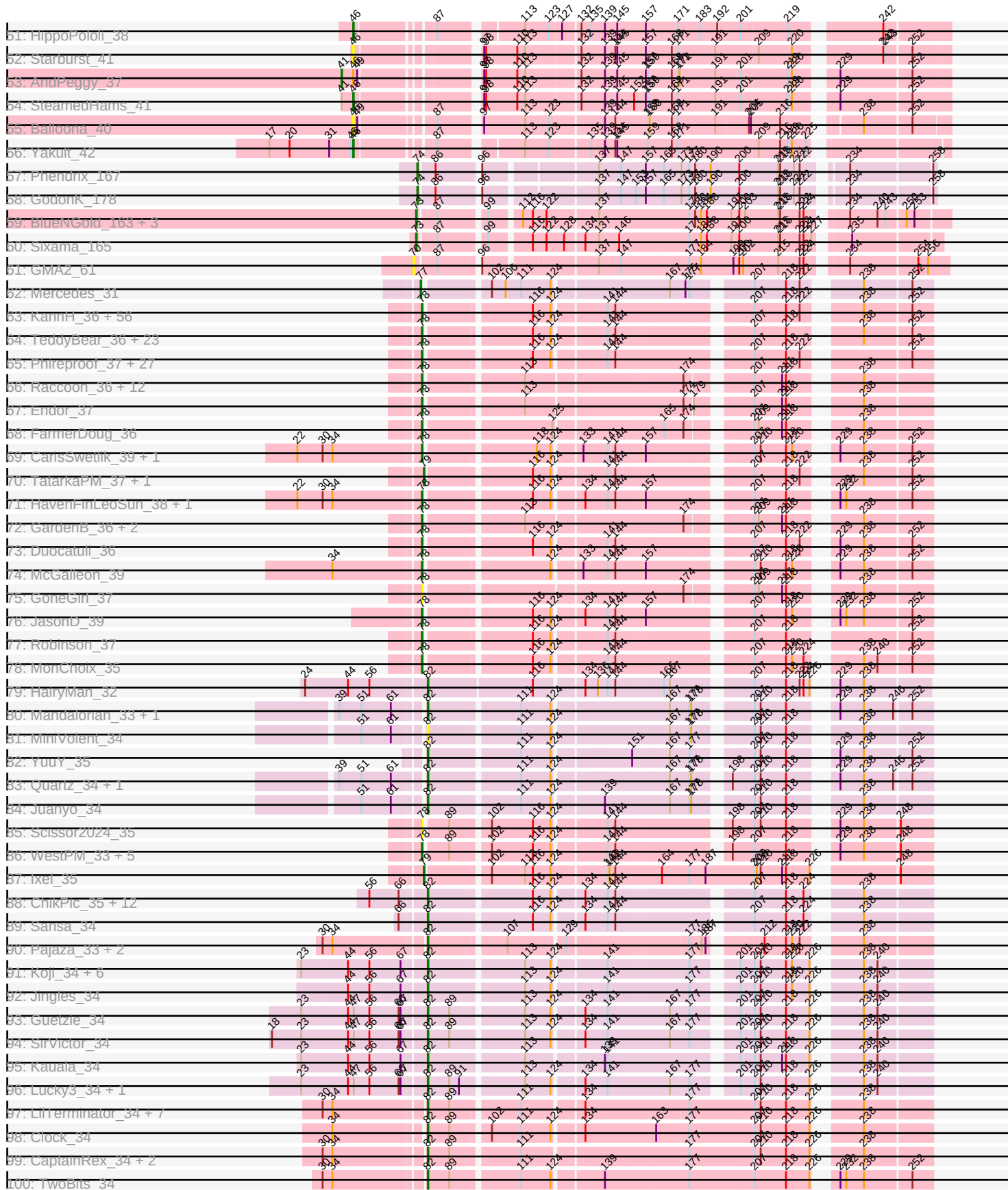


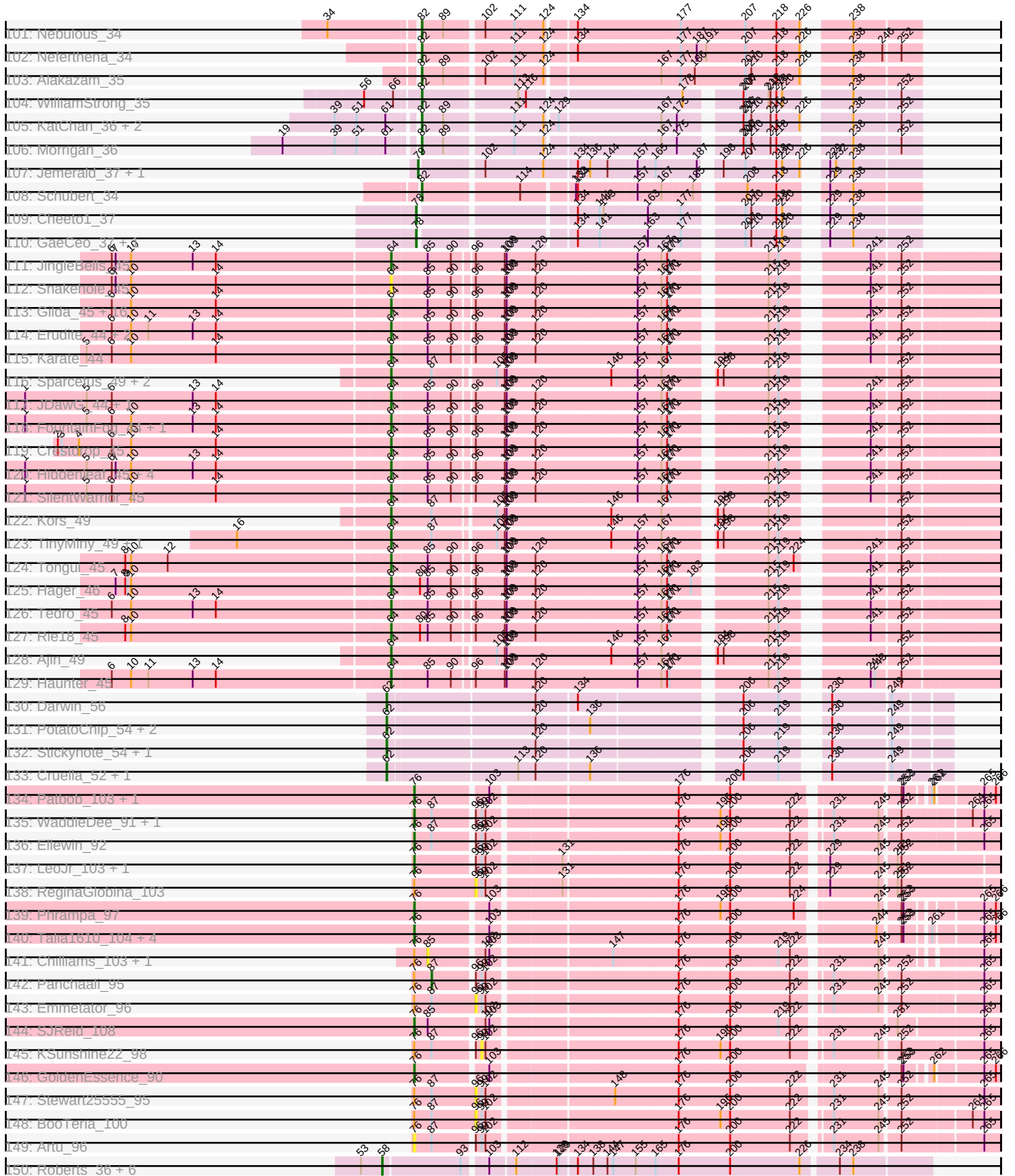
Pham 311075



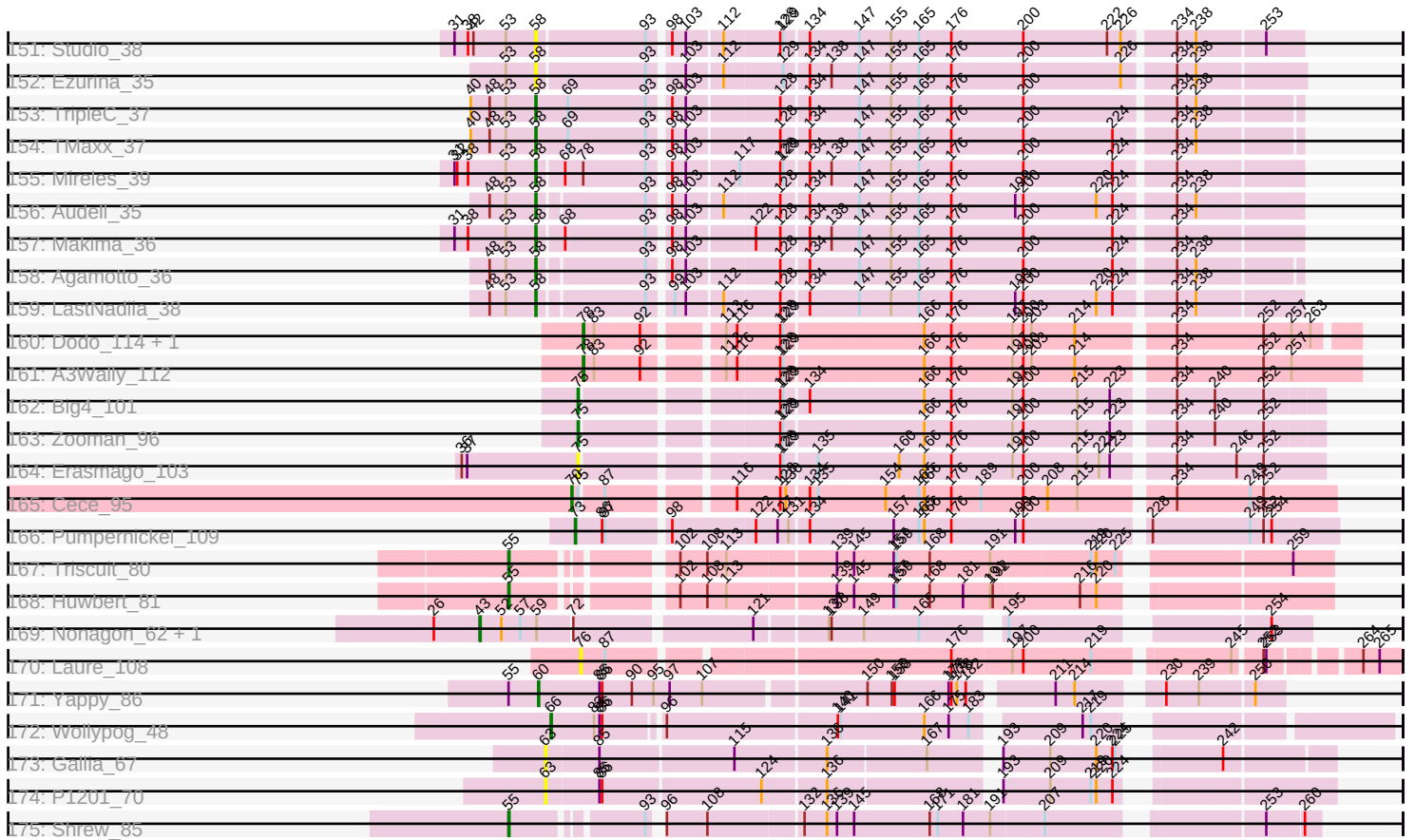
Pham 311075



Pham 311075



Pham 311075



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 311075 Report

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

Pham number 311075 has 450 members, 66 are drafts.

Phages represented in each track:

- Track 1 : LongHai_43, Salvus_43, Muddy_42
- Track 2 : FF47_41, 8UZL_42
- Track 3 : NoShow_50
- Track 4 : JacoRen57_38
- Track 5 : Maco6_40
- Track 6 : Gorgeous_60, Boersma_63, Amavida_62, Ichor_60, Thunderclap_60, Heylee_63, SorJuana_60, Amigo_61, Rings_61, Jaek_60, Yeezus_60, Anansi_60
- Track 7 : Molivia_62
- Track 8 : Virizion_69
- Track 9 : Yara_60
- Track 10 : PHTowN_64, ShakeNBake_64, Lizz_64
- Track 11 : Dryad_68
- Track 12 : Greenbelt_62
- Track 13 : SassyC_69
- Track 14 : Gibson_64, Rooney_64
- Track 15 : Wentworth_64
- Track 16 : Wilkos_66
- Track 17 : Zuko_81
- Track 18 : KimJongPhill_83
- Track 19 : Hexbug_47, Nodigi_47
- Track 20 : Lauer_38, Elinal_45, Bavillard_41, KayGee_43, Yucky_44, Vine_44, Pons_43, Tarnish_42
- Track 21 : Buttrmilkdreams_42, SketchMex_40, Biskit_42, Troje_42
- Track 22 : BigChungus_41, CocoaPuff_42, Feastonyeet_41, Mayweather_45, MAnor_43, SummitAcademy_41, PotPie_42
- Track 23 : Azira_38, Wolfwood_38, MaVan_38, Survivors_38, Zareef_38
- Track 24 : Yummy_42, Horseradish_42
- Track 25 : BillDoor_40
- Track 26 : Emalyn_40
- Track 27 : Sopespian_39, RADical_41, Axym_39, RSchmailzl_41, Elliott_40, Carsonalex_43, GoldHunter_41, PsychoKiller_39, Quasar_40
- Track 28 : AikoCarson_41, Amok_41
- Track 29 : Socotra_40, RedBaron_43, Bubble_38, Burnsey_39, Typhonomachy_38
- Track 30 : Button_43, Jamzy_45
- Track 31 : Cleo_36, Gibbous_36, Dre3_36
- Track 32 : Wallaby_40
- Track 33 : Nibbles_37

- Track 34 : SweatNTears_41, Nina_39
- Track 35 : Fribs8_37
- Track 36 : CherryonLim_43
- Track 37 : MunkgeeRoachy_38, ChickenTender_42
- Track 38 : MScarn_43
- Track 39 : Malvina_39
- Track 40 : RanchParmCat_45
- Track 41 : SheckWes_44
- Track 42 : Blondies_43
- Track 43 : McDazzle_43, ElJefes_42
- Track 44 : GiKK_45
- Track 45 : CanesSauce_39, CaramellLatte_39
- Track 46 : Margaret_46
- Track 47 : Orla_47
- Track 48 : ChocoMunchkin_39
- Track 49 : Agatha_39, Cozz_38
- Track 50 : Tolls_41, Yarn_37
- Track 51 : HippoPololi_38
- Track 52 : Starburst_41
- Track 53 : AndPeggy_37
- Track 54 : SteamedHams_41
- Track 55 : Balloona_40
- Track 56 : Yakult_42
- Track 57 : Phendrix_167
- Track 58 : GodonK_178
- Track 59 : BlueNGold_163, Forza_167, Mareelih_164, Boopy_166
- Track 60 : Sixama_165
- Track 61 : GMA2_61
- Track 62 : Mercedes_31
- Track 63 : KannH_36, TinSulphur_37, Riyhil_37, MillyPhilly_37, Symere_36, PuppyEggo_37, Tenda_36, Chako_36, WildNOut_37, PhredFlintston_37, Ioannes_37, Strathdee_37, HankSprout_37, StirfryIV_36, AranulaLuti_36, Clancy_36, AxiPup_37, Rog141_36, Garey24_36, HanSolo_36, Gubbabump_36, ParleG_37, HungryHenry_36, Benjalauren_37, Greys_37, Figueroism_37, Zada_37, ManRay_36, Phiderman_37, JeriBeth_36, Aubergine_36, Pherferi_37, Gargoyle_37, Byron23_37, Rappheph_37, Stanktossa_37, Papafritta_36, Sedgewig_36, CoraRita_36, Thorongil_37, Christoph_36, Inventa_37, MrWorldwide_37, Espinosa_36, Jerbirus_37, Kurt1_37, Ilzat_36, Janus167_36, KellyGreen_37, Winzigespinne_36, Vispistious_37, Martin_38, Bandik_37, StingRay_36, Oats_36, Dothraki_37, JasperRussell_36
- Track 64 : TeddyBear_36, Shee_37, Etta_36, Kouch_36, RosieMae_36, Erla_36, Baines_36, Gelo_36, Exploradora_36, SonOfLevi_36, Asta_36, Nattles_36, Alyxandracam_37, Chamuel_36, Bonino_36, Calix_36, Nagem_37, Kale_36, Pocket_36, Klimt_36, Ludgate_37, Gershwin_36, Raptor_37, SJay_37
- Track 65 : Phireproof_37, Antoinette_37, MaeLinda_37, SolidSnake_38, BeautPeep30_37, AlexAdler_37, SoilGremlin_37, BigRedClifford_37, Peep_37, Den3_37, Thompsone_37, Lovelyunicorn_37, OldNelly_37, Phriends_37, Teagan_37, Superfresh_37, Delphidian_37, Blage_37, ShaiHulud_37, Knox_37, Merida02_38, Velene_37, BonesMcCoy_37, Oxtober96_37, GoingMerry_37, Convict_37, Dave_37, Renzie_37
- Track 66 : Raccoon_36, Redfield_36, Etna_36, KingJulien_36, PhillyPhantom_36, Leafus_36, Hamlet_36, Balsa_36, Peppino_36, BeeBee8_37, Stormbreaker8_36, Schnapsidee_36, Soror1_36

- Track 67 : Endor_37
- Track 68 : FarmerDoug_36
- Track 69 : CarisSwetlik_39, Jenos_40
- Track 70 : TatarkaPM_37, NickSell_37
- Track 71 : HavenFinLeoSun_38, Acosta_38
- Track 72 : GardenB_36, Agente005_37, Anilorac_36
- Track 73 : Duocatuli_36
- Track 74 : McGalleon_39
- Track 75 : GoneGirl_37
- Track 76 : JasonD_39
- Track 77 : Robinson_37
- Track 78 : MonChoix_35
- Track 79 : HairyMan_32
- Track 80 : Mandalorian_33, Nucci_33
- Track 81 : MiniVolent_34
- Track 82 : YuuY_35
- Track 83 : Quartz_34, Carostasia_33
- Track 84 : Juanyo_34
- Track 85 : Scissor2024_35
- Track 86 : WestPM_33, Tinyman4_35, Kavo_34, Schimmels22_35, HerculesXL_35, Penta_33
- Track 87 : Ixel_35
- Track 88 : ChikPic_35, Andromedas_35, Phanita_35, Saratos_35, Shamu_35, ColaCorta_35, Eleri_35, MCubed_35, Xebius_35, PSirce_35, Glamour_34, Finny_35, Zenitsu_35
- Track 89 : Sansa_34
- Track 90 : Pajaza_33, Casey_33, Pikmin_33
- Track 91 : Koji_34, BouleyBill_34, RenegadeRaider_35, PrincePhergus_34, Sinatra_34, Bustleton_34, Pherbot_34
- Track 92 : Jingles_34
- Track 93 : Guetzie_34
- Track 94 : SirVictor_34
- Track 95 : Kauala_34
- Track 96 : Lucky3_34, Golden_34
- Track 97 : LilTerminator_34, QuadZero_34, Wardwill_36, BaronJohn_34, Hasitha_34, Zepp_35, Zayuliv_34, GreenIvy_34
- Track 98 : Clock_34
- Track 99 : CaptainRex_34, Librie_34, Fulton_34
- Track 100 : TwoBits_34
- Track 101 : Nebulous_34
- Track 102 : Neferthena_34
- Track 103 : Alakazam_35
- Track 104 : WilliamStrong_35
- Track 105 : KatChan_36, Luna18_36, Chepli_36
- Track 106 : Morrigan_36
- Track 107 : Jemerald_37, Juicer_37
- Track 108 : Schubert_34
- Track 109 : Cheeto1_37
- Track 110 : GaeCeo_37, ChickenKing_36
- Track 111 : JingleBells_45
- Track 112 : Snakehole_45
- Track 113 : Gilda_45, Rachella_45, OhDear_45, OverHedge_45, Anakin_45, Krampus_45, PhunaPhoke_45, Tiggy93_45, AnnaSerena_45, Pharpay_45,

CoolCookie_45, Neptune_45, Potty_45, Artiphact_45, NarutoRun_45, Cybele_45, Kate_46

- Track 114 : Erudite_44, Dauntless_44, MortySmith_43
- Track 115 : Karate_44
- Track 116 : Sparcet_49, Bramble_49, LordBart_49
- Track 117 : JDawG_44, Aesir_44
- Track 118 : FountainFog_44, Poultriss_44
- Track 119 : Crestdrop_45
- Track 120 : Hiddenleaf_45, Chivey_45, FreddieHg_45, Annapurna_45, DannyDe_45
- Track 121 : SilentWarrior_45
- Track 122 : Kors_49
- Track 123 : TinyMiny_49, RikSengupta_49
- Track 124 : Tongui_45
- Track 125 : Hager_46
- Track 126 : Tedro_45
- Track 127 : Rie18_45
- Track 128 : Ajin_49
- Track 129 : Haunter_45
- Track 130 : Darwin_56
- Track 131 : PotatoChip_54, PeteyPab_53, Zion_54
- Track 132 : Stickynote_54, Kimchi1738_53
- Track 133 : Cruella_52, C3PO_52
- Track 134 : Patbob_103, FloraSnap32_104
- Track 135 : WaddleDee_91, DunneganBoMo_93
- Track 136 : Ellewin_92
- Track 137 : LeoJr_103, Atuin_98
- Track 138 : ReginaGlobina_103
- Track 139 : Phrampa_97
- Track 140 : Talia1610_104, Bloom_108, Racecar_105, Mimi_104, FrostedClock_107
- Track 141 : Chilliams_103, Rockabye_109
- Track 142 : Panchaali_95
- Track 143 : Emmetator_96
- Track 144 : SJReid_108
- Track 145 : KSunshine22_98
- Track 146 : GoldenEssence_90
- Track 147 : Stewart25555_95
- Track 148 : BooTeria_100
- Track 149 : Artu_96
- Track 150 : Roberts_36, Gerri43_36, AnnabelLee_36, ChipsNGuac_36, CardboardBox_37, Neuville_36, ChamoyPickle_38
- Track 151 : Studio_38
- Track 152 : Ezurina_35
- Track 153 : TripleC_37
- Track 154 : TMaxx_37
- Track 155 : Mireles_39
- Track 156 : Audell_35
- Track 157 : Makima_36
- Track 158 : Agamoto_36
- Track 159 : LastNadiia_38
- Track 160 : Dodo_114, PauloDiaboli_112
- Track 161 : A3Wally_112
- Track 162 : Big4_101

- Track 163 : Zooman_96
- Track 164 : Erasmago_103
- Track 165 : Cece_95
- Track 166 : Pumpnickel_109
- Track 167 : Triscuit_80
- Track 168 : Huwbert_81
- Track 169 : Nonagon_62, Commonplace_63
- Track 170 : Laure_108
- Track 171 : Yappy_86
- Track 172 : Wolypog_48
- Track 173 : Gallia_67
- Track 174 : P1201_70
- Track 175 : Shrew_85

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

The start number called the most often in the published annotations is 78, it was called in 139 of the 384 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally_112, Acosta_38, Agente005_37, AlexAdler_37, Alyxandracam_37, Anilorac_36, Antoinette_37, AranulaLuti_36, Asta_36, Aubergine_36, AxiPup_37, Baines_36, Balsa_36, Bandik_37, BeautPeep30_37, BeeBee8_37, Benjalauren_37, BigRedClifford_37, Blage_37, BonesMcCoy_37, Bonino_36, Byron23_37, Calix_36, CarisSwetlik_39, Chako_36, Chamuel_36, Cheeto1_37, ChickenKing_36, Christoph_36, Clancy_36, Convict_37, CoraRita_36, Dave_37, Delphidian_37, Den3_37, Dodo_114, Dothraki_37, Duocatuli_36, Endor_37, Erla_36, Espinosa_36, Etna_36, Etta_36, Exploradora_36, FarmerDoug_36, Figueroism_37, GaeCeo_37, GardenB_36, Garey24_36, Gargoyle_37, Gelo_36, Gershwin_36, GoingMerry_37, GoneGirl_37, Greys_37, Gubbabump_36, Hamlet_36, HanSolo_36, HankSprout_37, HavenFinLeoSun_38, HerculesXL_35, HungryHenry_36, Ilzat_36, Inventa_37, Ioannes_37, Janus167_36, JasonD_39, JasperRussell_36, Jenos_40, Jerbirus_37, JeriBeth_36, Kale_36, KannH_36, Kavo_34, KellyGreen_37, KingJulien_36, Klimt_36, Knox_37, Kouch_36, Kurt1_37, Leafus_36, Lovelyunicorn_37, Ludgate_37, MaeLinda_37, ManRay_36, Martin_38, McGalleon_39, Merida02_38, MillyPhilly_37, MonChoix_35, MrWorldwide_37, Nagem_37, Nattles_36, Oats_36, OldNelly_37, Oxtober96_37, Papafritta_36, ParleG_37, PauloDiaboli_112, Peep_37, Penta_33, Peppino_36, Pherferi_37, Phiderman_37, PhillyPhantom_36, Phireproof_37, PhredFlintston_37, Phriends_37, Pocket_36, PuppyEggo_37, Raccoon_36, Rapheph_37, Raptor_37, Redfield_36, Renzie_37, Rihhil_37, Robinson_37, Rog141_36, RosieMae_36, SJay_37, Schimmels22_35, Schnapsidee_36, Scissor2024_35, Sedgewig_36, ShaiHulud_37, Shee_37, SoilGremlin_37, SolidSnake_38, SonOfLevi_36, Soror1_36, Stanktossa_37, StingRay_36, StirfryIV_36, Stormbreaker8_36, Strathdee_37, Superfresh_37, Symere_36, Teagan_37, TeddyBear_36, Tenda_36, Thompsone_37, Thorongil_37, TinSulphur_37, Tinyman4_35, Velene_37, Vispistious_37, WestPM_33, WildNOut_37, Winzigespinne_36, Zada_37,

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

- Mireles_39,

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

- 8UZL_42, Aesir_44, Agamotto_36, Agatha_39, AikoCarson_41, Ajin_49, Alakazam_35, Amavida_62, Amigo_61, Amok_41, Anakin_45, Anansi_60, AndPeggy_37, Andromedas_35, AnnaSerena_45, AnnabelLee_36, Annapurna_45, Artiphact_45, Artu_96, Atuin_98, Audell_35, Axym_39, Azira_38, Balloona_40, BaronJohn_34, Bavilard_41, Big4_101, BigChungus_41, BillDoor_40, Biskit_42, Blondies_43, Bloom_108, BlueNGold_163, Boersma_63, BooTeria_100, Boopy_166, BouleyBill_34, Bramble_49, Bubble_38, Burnsey_39, Bustleton_34, Button_43, Buttrmlkdreams_42, C3PO_52, CanesSauce_39, CaptainRex_34, CaramelLatte_39, CardboardBox_37, Carostasia_33, Carsonalex_43, Casey_33, Cece_95, ChamoyPickle_38, Chepli_36, CherryonLim_43, ChickenTender_42, ChikPic_35, Chilliams_103, ChipsNGuac_36, Chivey_45, ChocoMunchkin_39, Cleo_36, Clock_34, CocoaPuff_42, ColaCorta_35, Commonplace_63, CoolCookie_45, Cozz_38, Crestdrop_45, Cruella_52, Cybele_45, DannyDe_45, Darwin_56, Dauntless_44, Dre3_36, Dryad_68, DunneganBoMo_93, ElJefes_42, Eleri_35, Elinal_45, Elliott_40, Ellewin_92, Emalyn_40, Emmetator_96, Erasmago_103, Erudite_44, Ezurina_35, FF47_41, Feastonyet_41, Finny_35, FloraSnap32_104, Forza_167, FountainFog_44, FreddieHg_45, Fribs8_37, FrostedClock_107, Fulton_34, GMA2_61, Gallia_67, Gerri43_36, GiKK_45, Gibbous_36, Gibson_64, Gilda_45, Glamour_34, GodonK_178, GoldHunter_41, GoldenEssence_90, Golden_34, Gorgeous_60, GreenIvy_34, Greenbelt_62, Guetzle_34, Hager_46, HairyMan_32, Hasitha_34, Haunter_45, Hexbug_47, Heylee_63, Hiddenleaf_45, HippoPololi_38, Horseradish_42, Huwburt_81, Ichor_60, Ixel_35, JDawG_44, JacoRen57_38, Jaek_60, Jamzy_45, Jemerald_37, JingleBells_45, Jingles_34, Juanyo_34, Juicer_37, KSunshine22_98, Karate_44, KatChan_36, Kate_46, Kauala_34, KayGee_43, KimJongPhill_83, Kimchi1738_53, Koji_34, Kors_49, Krampus_45, LastNadiia_38, Lauer_38, Laure_108, LeoJr_103, Librie_34, LilTerminator_34, Lizz_64, LongHai_43, LordBart_49, Lucky3_34, Luna18_36, MAnor_43, MCubed_35, MScarn_43, MaVan_38, Maco6_40, Makima_36, Malvina_39, Mandalorian_33, Mareelih_164, Margaret_46, Mayweather_45, McDazzle_43, Mercedes_31, Mimi_104, MiniVolent_34, Molivia_62, Morigan_36, MortySmith_43, Muddy_42, MunkgeeRoachy_38, NarutoRun_45, Nebulous_34, Neferthema_34, Neptune_45, Neuville_36, Nibbles_37, NickSell_37, Nina_39, NoShow_50, Nodigi_47, Nonagon_62, Nucci_33, OhDear_45, Orla_47, OverHedge_45, P1201_70, PHTown_64, PSirce_35, Pajaza_33, Panchaali_95, Patbob_103, PeteyPab_53, Phanita_35, Pharpay_45, Phendrix_167, Pherbot_34, Phrampa_97, PhunaPhoke_45, Pikmin_33, Pons_43, PotPie_42, PotatoChip_54, Potty_45, Poultress_44, PrincePhergus_34, PsychoKiller_39, Pumpernickel_109, QuadZero_34, Quartz_34, Quasar_40, RADical_41, RSchmailzl_41, Racecar_105, Rachella_45, RanchParmCat_45, RedBaron_43, ReginaGlobina_103, RenegadeRaider_35, Rie18_45, RikSengupta_49, Rings_61, Roberts_36, Rockabye_109, Rooney_64, SJReid_108, Salvus_43, Sansa_34, Saratos_35, SassyC_69, Schubert_34, ShakeNBake_64, Shamu_35, SheckWes_44, Shrew_85, SilentWarrior_45, Sinatra_34, SirVictor_34, Sixama_165, SketchMex_40, Snakehole_45, Socotra_40, Sopespian_39, SorJuana_60, Sparcetus_49, Starburst_41, SteamedHams_41, Stewart25555_95, Stickynote_54, Studio_38, SummitAcademy_41, Survivors_38, SweatNTears_41, TMaxx_37, Talia1610_104, Tarnish_42, TatarkaPM_37, Tedro_45, Thunderclap_60, Tiggy93_45, TinyMiny_49, Tolls_41, Tongui_45, TripleC_37, Triscuit_80, Troje_42, TwoBits_34, Typhonomachy_38, Vine_44, Virizion_69, WaddleDee_91, Wallaby_40, Wardwill_36, Wentworth_64, Wilkos_66, WilliamStrong_35, Wolfwood_38, Wolypog_48, Xebius_35, Yakult_42, Yappy_86, Yara_60, Yarn_37, Yeezus_60, Yucky_44,

Yummy_42, YuuY_35, Zareef_38, Zayuliv_34, Zenitsu_35, Zepp_35, Zion_54, Zooman_96, Zuko_81,

Summary by start number:

Start 33:

- Found in 6 of 450 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_42 (AB), FF47_41 (AB), LongHai_43 (AB), Maco6_40 (AB), Muddy_42 (AB), Salvus_43 (AB),

Start 35:

- Found in 1 of 450 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_50 (AB),

Start 39:

- Found in 9 of 450 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 384
- Called 11.1% of time when present
- Phage (with cluster) where this start called: JacoRen57_38 (AB),

Start 41:

- Found in 19 of 450 (4.2%) of genes in pham
- Manual Annotations of this start: 3 of 384
- Called 15.8% of time when present
- Phage (with cluster) where this start called: AndPeggy_37 (CT), BillDoor_40 (CT), Blondies_43 (CT),

Start 43:

- Found in 2 of 450 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Commonplace_63 (JD), Nonagon_62 (JD),

Start 45:

- Found in 9 of 450 (2.0%) of genes in pham
- Manual Annotations of this start: 3 of 384
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Button_43 (CT), Jamzy_45 (CT), Margaret_46 (CT),

Start 46:

- Found in 88 of 450 (19.6%) of genes in pham
- Manual Annotations of this start: 56 of 384
- Called 83.0% of time when present
- Phage (with cluster) where this start called: Agatha_39 (CT), AikoCarson_41 (CT), Amok_41 (CT), Axym_39 (CT), Azira_38 (CT), Balloona_40 (CT), Bavidard_41 (CT), BigChungus_41 (CT), Biskit_42 (CT), Bubble_38 (CT), Burnsey_39 (CT), Buttrmlkdreams_42 (CT), Carsonalex_43 (CT), CherryonLim_43 (CT),

ChickenTender_42 (CT), ChocoMunchkin_39 (CT), Cleo_36 (CT), CocoaPuff_42 (CT), Cozz_38 (CT), Dre3_36 (CT), ElJefes_42 (CT), Elinal_45 (CT), Elliott_40 (CT), Feastonyeet_41 (CT), Fribs8_37 (CT), GiKK_45 (CT), Gibbous_36 (CT), GoldHunter_41 (CT), Hexbug_47 (CT), HippoPololi_38 (CT), Horseradish_42 (CT), KayGee_43 (CT), Lauer_38 (CT), MAnor_43 (CT), MScarn_43 (CT), MaVan_38 (CT), Malvina_39 (CT), Mayweather_45 (CT), McDazzle_43 (CT), MunkgeeRoachy_38 (CT), Nibbles_37 (CT), Nina_39 (CT), Nodigi_47 (CT), Orla_47 (CT), Pons_43 (CT), PotPie_42 (CT), PsychoKiller_39 (CT), Quasar_40 (CT), RADical_41 (CT), RSchmailz_41 (CT), RanchParmCat_45 (CT), RedBaron_43 (CT), SheckWes_44 (CT), SketchMex_40 (CT), Socotra_40 (CT), Sopespian_39 (CT), Starburst_41 (CT), SteamedHams_41 (CT), SummitAcademy_41 (CT), Survivors_38 (CT), SweatNTears_41 (CT), Tarnish_42 (CT), Tolls_41 (CT), Troje_42 (CT), Typhonomachy_38 (CT), Vine_44 (CT), Wallaby_40 (CT), Wolfwood_38 (CT), Yakult_42 (CT), Yarn_37 (CT), Yucky_44 (CT), Yummy_42 (CT), Zareef_38 (CT),

Start 49:

- Found in 35 of 450 (7.8%) of genes in pham
- Manual Annotations of this start: 1 of 384
- Called 8.6% of time when present
- Phage (with cluster) where this start called: CanesSauce_39 (CT), CaramelLatte_39 (CT), Emalyn_40 (CT),

Start 50:

- Found in 2 of 450 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_83 (BR), Zuko_81 (BR),

Start 55:

- Found in 4 of 450 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 384
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Huwburt_81 (GG), Shrew_85 (singleton), Triscuit_80 (GG),

Start 57:

- Found in 15 of 450 (3.3%) of genes in pham
- Manual Annotations of this start: 13 of 384
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Amavida_62 (AQ), Amigo_61 (AQ), Anansi_60 (AQ), Boersma_63 (AQ), Gorgeous_60 (AQ), Heylee_63 (AQ), Ichor_60 (AQ), Jaek_60 (AQ), Molivia_62 (AQ), Rings_61 (AQ), SorJuana_60 (AQ), Thunderclap_60 (AQ), Yeezus_60 (AQ),

Start 58:

- Found in 16 of 450 (3.6%) of genes in pham
- Manual Annotations of this start: 11 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agamotto_36 (FR), AnnabelleLee_36 (FR), Audell_35 (FR), CardboardBox_37 (FR), ChamoyPickle_38 (FR), ChipsNGuac_36 (FR), Ezurina_35 (FR), Gerri43_36 (FR), LastNadiia_38 (FR), Makima_36 (FR), Mireles_39 (FR), Neuville_36 (FR), Roberts_36 (FR), Studio_38 (FR), TMaxx_37 (FR), TripleC_37 (FR),

Start 60:

- Found in 1 of 450 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yappy_86 (singleton),

Start 62:

- Found in 20 of 450 (4.4%) of genes in pham
- Manual Annotations of this start: 17 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_52 (EN), Cruella_52 (EN), Darwin_56 (EN), Dryad_68 (BN), Gibson_64 (BN), Greenbelt_62 (BN), Kimchi1738_53 (EN), Lizz_64 (BN), PHTown_64 (BN), PeteyPab_53 (EN), PotatoChip_54 (EN), Rooney_64 (BN), SassyC_69 (BN), ShakeNBake_64 (BN), Stickynote_54 (EN), Virizion_69 (BN), Wentworth_64 (BN), Wilkos_66 (BN), Yara_60 (BN), Zion_54 (EN),

Start 63:

- Found in 2 of 450 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gallia_67 (singleton), P1201_70 (singleton),

Start 64:

- Found in 46 of 450 (10.2%) of genes in pham
- Manual Annotations of this start: 42 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_44 (EF), Ajin_49 (EF), Anakin_45 (EF), AnnaSerena_45 (EF), Annapurna_45 (EF), Artiphact_45 (EF), Bramble_49 (EF), Chivey_45 (EF), CoolCookie_45 (EF), Crestdrop_45 (EF), Cybele_45 (EF), DannyDe_45 (EF), Dauntless_44 (EF), Erudite_44 (EF), FountainFog_44 (EF), FreddieHg_45 (EF), Gilda_45 (EF), Hager_46 (EF), Haunter_45 (EF), Hiddenleaf_45 (EF), JDawG_44 (EF), JingleBells_45 (EF), Karate_44 (EF), Kate_46 (EF), Kors_49 (EF), Krampus_45 (EF), LordBart_49 (EF), MortySmith_43 (EF), NarutoRun_45 (EF), Neptune_45 (EF), OhDear_45 (EF), OverHedge_45 (EF), Pharpay_45 (EF), PhunaPhoke_45 (EF), Potty_45 (EF), Poultruss_44 (EF), Rachella_45 (EF), Rie18_45 (EF), RikSengupta_49 (EF), SilentWarrior_45 (EF), Snakehole_45 (EF), Sparcetus_49 (EF), Tedro_45 (EF), Tiggy93_45 (EF), TinyMiny_49 (EF), Tongui_45 (EF),

Start 66:

- Found in 20 of 450 (4.4%) of genes in pham
- Manual Annotations of this start: 1 of 384
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Wollypog_48 (singleton),

Start 70:

- Found in 2 of 450 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_95 (GD3), GMA2_61 (DS),

Start 73:

- Found in 18 of 450 (4.0%) of genes in pham
- Manual Annotations of this start: 6 of 384
- Called 33.3% of time when present
- Phage (with cluster) where this start called: BlueNGold_163 (DS), Boopy_166 (DS), Forza_167 (DS), Mareelih_164 (DS), Pumpnickel_109 (GD4), Sixama_165 (DS),

Start 74:

- Found in 2 of 450 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_178 (DK), Phendrix_167 (DK),

Start 75:

- Found in 4 of 450 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 384
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Big4_101 (GD2), Erasmago_103 (GD2), Zooman_96 (GD2),

Start 76:

- Found in 25 of 450 (5.6%) of genes in pham
- Manual Annotations of this start: 11 of 384
- Called 68.0% of time when present
- Phage (with cluster) where this start called: Artu_96 (FC), Atuin_98 (FC), Bloom_108 (FC), DunneganBoMo_93 (FC), Ellewin_92 (FC), FloraSnap32_104 (FC), FrostedClock_107 (FC), GoldenEssence_90 (FC), Laure_108 (UNK), LeoJr_103 (FC), Mimi_104 (FC), Patbob_103 (FC), Phrampa_97 (FC), Racecar_105 (FC), SJReid_108 (FC), Talia1610_104 (FC), WaddleDee_91 (FC),

Start 77:

- Found in 1 of 450 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mercedes_31 (EA),

Start 78:

- Found in 151 of 450 (33.6%) of genes in pham
- Manual Annotations of this start: 139 of 384
- Called 99.3% of time when present
- Phage (with cluster) where this start called: A3Wally_112 (GD1), Acosta_38 (EA1), Agente005_37 (EA1), AlexAdler_37 (EA1), Alyxandracam_37 (EA1), Anilorac_36 (EA1), Antoinette_37 (EA1), AranulaLuti_36 (EA1), Asta_36 (EA1), Aubergine_36 (EA1), AxiPup_37 (EA1), Baines_36 (EA1), Balsa_36 (EA1), Bandik_37 (EA1), BeautPeep30_37 (EA1), BeeBee8_37 (EA1), Benjalauren_37 (EA1), BigRedClifford_37 (EA1), Blage_37 (EA1), BonesMcCoy_37 (EA1), Bonino_36 (EA1), Byron23_37 (EA1), Calix_36 (EA1), CarisSwetlik_39 (EA1), Chako_36 (EA1), Chamuel_36 (EA1), Cheeto1_37 (EA9), ChickenKing_36 (EA9), Christoph_36 (EA1), Clancy_36 (EA1), Convict_37 (EA1), CoraRita_36 (EA1), Dave_37 (EA1), Delphidian_37 (EA1), Den3_37 (EA1), Dodo_114 (GD1), Dothraki_37 (EA1), Duocatuli_36 (EA1), Endor_37 (EA1), Erla_36 (EA1), Espinosa_36 (EA1), Etna_36 (EA1), Etta_36 (EA1), Exploradora_36 (EA1), FarmerDoug_36 (EA1), Figueroism_37

(EA1), GaeCeo_37 (EA9), GardenB_36 (EA1), Garey24_36 (EA1), Gargoyle_37 (EA1), Gelo_36 (EA1), Gershwin_36 (EA1), GoingMerry_37 (EA1), GoneGirl_37 (EA1), Greys_37 (EA1), Gubbabump_36 (EA1), Hamlet_36 (EA1), HanSolo_36 (EA1), HankSprout_37 (EA1), HavenFinLeoSun_38 (EA1), HerculesXL_35 (EA11), HungryHenry_36 (EA1), Ilzat_36 (EA1), Inventa_37 (EA1), Ioannes_37 (EA1), Janus167_36 (EA1), JasonD_39 (EA1), JasperRussell_36 (EA1), Jenos_40 (EA1), Jerbirus_37 (EA1), JeriBeth_36 (EA1), Kale_36 (EA1), KannH_36 (EA1), Kavo_34 (EA11), KellyGreen_37 (EA1), KingJulien_36 (EA1), Klimt_36 (EA1), Knox_37 (EA1), Kouch_36 (EA1), Kurt1_37 (EA1), Leafus_36 (EA1), Lovelyunicorn_37 (EA1), Ludgate_37 (EA1), MaeLinda_37 (EA1), ManRay_36 (EA1), Martin_38 (EA1), McGalleon_39 (EA1), Merida02_38 (EA1), MillyPhilly_37 (EA1), MonChoix_35 (EA1), MrWorldwide_37 (EA1), Nagem_37 (EA1), Nattles_36 (EA1), Oats_36 (EA1), OldNelly_37 (EA1), Oxtober96_37 (EA1), Papafritta_36 (EA1), ParleG_37 (EA1), PauloDiaboli_112 (GD1), Peep_37 (EA1), Penta_33 (EA11), Peppino_36 (EA1), Pherferi_37 (EA1), Phiderman_37 (EA1), PhillyPhantom_36 (EA1), Phireproof_37 (EA1), PhredFlintston_37 (EA1), Phriends_37 (EA1), Pocket_36 (EA1), PuppyEggo_37 (EA1), Raccoon_36 (EA1), Rapheph_37 (EA1), Raptor_37 (EA1), Redfield_36 (EA1), Renzie_37 (EA1), Riyhil_37 (EA1), Robinson_37 (EA1), Rog141_36 (EA1), RosieMae_36 (EA1), SJay_37 (EA1), Schimmels22_35 (EA11), Schnapsidee_36 (EA1), Scissor2024_35 (EA11), Sedgewig_36 (EA1), ShaiHulud_37 (EA1), Shee_37 (EA1), SoilGremlin_37 (EA1), SolidSnake_38 (EA1), SonOfLevi_36 (EA1), Soror1_36 (EA1), Stanktossa_37 (EA1), StingRay_36 (EA1), StirfryIV_36 (EA1), Stormbreaker8_36 (EA1), Strathdee_37 (EA1), Superfresh_37 (EA1), Symere_36 (EA1), Teagan_37 (EA1), TeddyBear_36 (EA1), Tenda_36 (EA1), Thompsone_37 (EA1), Thorongil_37 (EA1), TinSulphur_37 (EA1), Tinyman4_35 (EA11), Velene_37 (EA1), Vispistious_37 (EA1), WestPM_33 (EA11), WildNOut_37 (EA1), Winzigespinne_36 (EA1), Zada_37 (EA1),

Start 79:

- Found in 24 of 450 (5.3%) of genes in pham
- Manual Annotations of this start: 5 of 384
- Called 20.8% of time when present
- Phage (with cluster) where this start called: Ixel_35 (EA11), Jemerald_37 (EA6), Juicer_37 (EA6), NickSell_37 (EA1), TatarkaPM_37 (EA1),

Start 82:

- Found in 60 of 450 (13.3%) of genes in pham
- Manual Annotations of this start: 57 of 384
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alakazam_35 (EA5), Andromedas_35 (EA2), BaronJohn_34 (EA5), BouleyBill_34 (EA4), Bustleton_34 (EA4), CaptainRex_34 (EA5), Carostasia_33 (EA10), Casey_33 (EA3), Chepli_36 (EA6), ChikPic_35 (EA2), Clock_34 (EA5), ColaCorta_35 (EA2), Eleri_35 (EA2), Finny_35 (EA2), Fulton_34 (EA5), Glamour_34 (EA2), Golden_34 (EA4), Greenlvy_34 (EA5), Guetzie_34 (EA4), HairyMan_32 (EA10), Hasitha_34 (EA5), Jingles_34 (EA4), Juanyo_34 (EA10), KatChan_36 (EA6), Kauala_34 (EA4), Koji_34 (EA4), Librie_34 (EA5), LilTerminator_34 (EA5), Lucky3_34 (EA4), Luna18_36 (EA6), MCubed_35 (EA2), Mandalorian_33 (EA10), MiniVolent_34 (EA10), Morrigan_36 (EA6), Nebulous_34 (EA5), Neferthena_34 (EA5), Nucci_33 (EA10), PSirce_35 (EA2), Pajaza_33 (EA3), Phanita_35 (EA2), Pherbot_34 (EA4), Pikmin_33 (EA3), PrincePhergus_34 (EA4), QuadZero_34 (EA5), Quartz_34 (EA10), RenegadeRaider_35 (EA4), Sansa_34 (EA2), Saratos_35 (EA2), Schubert_34 (EA8), Shamu_35 (EA2), Sinatra_34 (EA4), SirVictor_34 (EA4), TwoBits_34 (EA5),

Wardwill_36 (EA5), WilliamStrong_35 (EA6), Xebius_35 (EA2), YuyuY_35 (EA10), Zayuliv_34 (EA5), Zenitsu_35 (EA2), Zepp_35 (EA5),

Start 85:

- Found in 58 of 450 (12.9%) of genes in pham
- No Manual Annotations of this start.
- Called 3.4% of time when present
- Phage (with cluster) where this start called: Chilliamps_103 (FC), Rockabye_109 (FC),

Start 87:

- Found in 60 of 450 (13.3%) of genes in pham
- Manual Annotations of this start: 1 of 384
- Called 1.7% of time when present
- Phage (with cluster) where this start called: Panchaali_95 (FC),

Start 96:

- Found in 65 of 450 (14.4%) of genes in pham
- No Manual Annotations of this start.
- Called 6.2% of time when present
- Phage (with cluster) where this start called: BooTeria_100 (FC), Emmetator_96 (FC), ReginaGlobina_103 (FC), Stewart25555_95 (FC),

Start 99:

- Found in 18 of 450 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 5.6% of time when present
- Phage (with cluster) where this start called: KSunshine22_98 (FC),

Summary by clusters:

There are 30 clusters represented in this pham: GD1, FR, GD3, GD4, DK, BN, singleton, FC, BR, JD, DS, EA2, CT, AB, EF, EA, EA9, EA8, EA1, EA3, UNK, EA5, EA4, EA6, AQ, EA11, EA10, GG, EN, GD2,

Info for manual annotations of cluster AB:

- Start number 33 was manually annotated 2 times for cluster AB.
- Start number 35 was manually annotated 1 time for cluster AB.
- Start number 39 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AQ:

- Start number 57 was manually annotated 13 times for cluster AQ.

Info for manual annotations of cluster BN:

- Start number 62 was manually annotated 9 times for cluster BN.

Info for manual annotations of cluster BR:

- Start number 50 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CT:

- Start number 41 was manually annotated 3 times for cluster CT.
- Start number 45 was manually annotated 3 times for cluster CT.
- Start number 46 was manually annotated 56 times for cluster CT.

- Start number 49 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DK:

- Start number 74 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 73 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster EA:

- Start number 77 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 78 was manually annotated 129 times for cluster EA1.
- Start number 79 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 82 was manually annotated 7 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 78 was manually annotated 4 times for cluster EA11.
- Start number 79 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 82 was manually annotated 13 times for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 82 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 82 was manually annotated 12 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 82 was manually annotated 16 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 79 was manually annotated 2 times for cluster EA6.
- Start number 82 was manually annotated 5 times for cluster EA6.

Info for manual annotations of cluster EA8:

- Start number 82 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 78 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EF:

- Start number 64 was manually annotated 42 times for cluster EF.

Info for manual annotations of cluster EN:

- Start number 62 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster FC:

- Start number 76 was manually annotated 11 times for cluster FC.
- Start number 87 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster FR:

- Start number 58 was manually annotated 11 times for cluster FR.

Info for manual annotations of cluster GD1:

- Start number 78 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 75 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 70 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 73 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster GG:

- Start number 55 was manually annotated 2 times for cluster GG.

Info for manual annotations of cluster JD:

- Start number 43 was manually annotated 2 times for cluster JD.

Gene Information:

Gene: 8UZL_42 Start: 30925, Stop: 30080, Start Num: 33

Candidate Starts for 8UZL_42:

(Start: 33 @30925 has 2 MA's), (Start: 46 @30901 has 56 MA's), (Start: 79 @30808 has 5 MA's), (92, 30748), (113, 30670), (120, 30643), (132, 30592), (139, 30559), (171, 30451), (181, 30424), (212, 30322), (219, 30286), (225, 30259), (237, 30196), (253, 30121), (255, 30112),

Gene: A3Wally_112 Start: 76409, Stop: 75603, Start Num: 78

Candidate Starts for A3Wally_112:

(Start: 78 @76409 has 139 MA's), (83, 76397), (92, 76346), (113, 76274), (116, 76262), (128, 76217), (129, 76214), (166, 76067), (176, 76037), (197, 75971), (200, 75959), (203, 75950), (214, 75902), (234, 75806), (252, 75710), (257, 75680),

Gene: Acosta_38 Start: 26305, Stop: 25637, Start Num: 78

Candidate Starts for Acosta_38:

(22, 26488), (30, 26449), (34, 26434), (Start: 78 @26305 has 139 MA's), (116, 26158), (124, 26131), (134, 26092), (141, 26062), (144, 26050), (157, 26011), (207, 25870), (218, 25822), (229, 25771), (232, 25762), (252, 25666),

Gene: Aesir_44 Start: 29791, Stop: 30636, Start Num: 64

Candidate Starts for Aesir_44:

(1, 29230), (5, 29326), (6, 29365), (13, 29491), (14, 29527), (Start: 64 @29791 has 42 MA's), (85, 29845), (90, 29881), (96, 29908), (108, 29953), (109, 29956), (120, 30001), (157, 30157), (167, 30193), (170, 30202), (171, 30205), (215, 30334), (219, 30349), (241, 30454), (252, 30496),

Gene: Agamotto_36 Start: 26402, Stop: 25623, Start Num: 58

Candidate Starts for Agamotto_36:

(48, 26453), (53, 26435), (Start: 58 @26402 has 11 MA's), (93, 26294), (98, 26276), (103, 26261), (128, 26165), (134, 26138), (147, 26084), (155, 26051), (165, 26021), (176, 25985), (200, 25907), (224, 25811), (234, 25751), (238, 25730),

Gene: Agatha_39 Start: 28608, Stop: 27790, Start Num: 46

Candidate Starts for Agatha_39:

(Start: 46 @28608 has 56 MA's), (97, 28452), (98, 28449), (110, 28401), (113, 28389), (126, 28341), (132, 28311), (139, 28278), (144, 28263), (145, 28260), (157, 28218), (168, 28179), (171, 28170), (191, 28113), (220, 27999), (242, 27885), (252, 27846),

Gene: Agente005_37 Start: 26137, Stop: 25469, Start Num: 78

Candidate Starts for Agente005_37:

(Start: 78 @26137 has 139 MA's), (113, 26002), (174, 25783), (207, 25702), (209, 25696), (217, 25660), (218, 25654), (238, 25567),

Gene: AikoCarson_41 Start: 28965, Stop: 28147, Start Num: 46

Candidate Starts for AikoCarson_41:

(Start: 41 @28983 has 3 MA's), (Start: 46 @28965 has 56 MA's), (Start: 49 @28959 has 1 MA's), (97, 28809), (98, 28806), (110, 28758), (113, 28746), (132, 28668), (139, 28635), (145, 28617), (157, 28575), (159, 28572), (168, 28536), (171, 28527), (191, 28470), (201, 28431), (219, 28362), (229, 28308), (242, 28242),

Gene: Ajin_49 Start: 31113, Stop: 31955, Start Num: 64

Candidate Starts for Ajin_49:

(Start: 64 @31113 has 42 MA's), (105, 31260), (108, 31272), (109, 31275), (146, 31437), (157, 31473), (167, 31509), (194, 31572), (198, 31581), (215, 31650), (219, 31665), (252, 31812),

Gene: Alakazam_35 Start: 25472, Stop: 24777, Start Num: 82

Candidate Starts for Alakazam_35:

(Start: 82 @25472 has 57 MA's), (89, 25439), (102, 25388), (111, 25343), (124, 25298), (167, 25136), (177, 25109), (186, 25088), (207, 25010), (210, 25001), (218, 24962), (226, 24926), (238, 24875),

Gene: AlexAdler_37 Start: 25901, Stop: 25233, Start Num: 78

Candidate Starts for AlexAdler_37:

(Start: 78 @25901 has 139 MA's), (116, 25754), (124, 25727), (141, 25658), (144, 25646), (207, 25466), (218, 25418), (222, 25397), (252, 25262),

Gene: Alyxandracam_37 Start: 25911, Stop: 25243, Start Num: 78

Candidate Starts for Alyxandracam_37:

(Start: 78 @25911 has 139 MA's), (116, 25764), (124, 25737), (141, 25668), (144, 25656), (207, 25476), (218, 25428), (238, 25341), (252, 25272),

Gene: Amavida_62 Start: 40997, Stop: 40257, Start Num: 57

Candidate Starts for Amavida_62:

(Start: 57 @40997 has 13 MA's), (65, 40967), (Start: 73 @40943 has 6 MA's), (Start: 79 @40931 has 5 MA's), (81, 40928), (84, 40922), (92, 40880), (94, 40871), (101, 40856), (104, 40847), (131, 40748), (133, 40733), (164, 40613), (169, 40595), (183, 40556), (187, 40547), (214, 40466), (221, 40439), (233, 40394), (234, 40391), (238, 40370), (246, 40325), (250, 40310),

Gene: Amigo_61 Start: 41212, Stop: 40472, Start Num: 57

Candidate Starts for Amigo_61:

(Start: 57 @41212 has 13 MA's), (65, 41182), (Start: 73 @41158 has 6 MA's), (Start: 79 @41146 has 5 MA's), (81, 41143), (84, 41137), (92, 41095), (94, 41086), (101, 41071), (104, 41062), (131, 40963),

(133, 40948), (164, 40828), (169, 40810), (183, 40771), (187, 40762), (214, 40681), (221, 40654), (233, 40609), (234, 40606), (238, 40585), (246, 40540), (250, 40525),

Gene: Amok_41 Start: 28989, Stop: 28171, Start Num: 46

Candidate Starts for Amok_41:

(Start: 41 @29007 has 3 MA's), (Start: 46 @28989 has 56 MA's), (Start: 49 @28983 has 1 MA's), (97, 28833), (98, 28830), (110, 28782), (113, 28770), (132, 28692), (139, 28659), (145, 28641), (157, 28599), (159, 28596), (168, 28560), (171, 28551), (191, 28494), (201, 28455), (219, 28386), (229, 28332), (242, 28266),

Gene: Anakin_45 Start: 30144, Stop: 30992, Start Num: 64

Candidate Starts for Anakin_45:

(6, 29718), (10, 29748), (14, 29880), (Start: 64 @30144 has 42 MA's), (85, 30198), (90, 30234), (96, 30261), (108, 30306), (109, 30309), (120, 30354), (157, 30510), (167, 30546), (170, 30555), (171, 30558), (215, 30687), (219, 30702), (241, 30807), (252, 30849),

Gene: Anansi_60 Start: 40819, Stop: 40079, Start Num: 57

Candidate Starts for Anansi_60:

(Start: 57 @40819 has 13 MA's), (65, 40789), (Start: 73 @40765 has 6 MA's), (Start: 79 @40753 has 5 MA's), (81, 40750), (84, 40744), (92, 40702), (94, 40693), (101, 40678), (104, 40669), (131, 40570), (133, 40555), (164, 40435), (169, 40417), (183, 40378), (187, 40369), (214, 40288), (221, 40261), (233, 40216), (234, 40213), (238, 40192), (246, 40147), (250, 40132),

Gene: AndPeggy_37 Start: 28407, Stop: 27571, Start Num: 41

Candidate Starts for AndPeggy_37:

(Start: 41 @28407 has 3 MA's), (Start: 46 @28389 has 56 MA's), (Start: 49 @28383 has 1 MA's), (97, 28233), (98, 28230), (110, 28182), (113, 28170), (132, 28092), (139, 28059), (145, 28041), (157, 27999), (159, 27996), (168, 27960), (171, 27951), (172, 27948), (191, 27894), (201, 27855), (219, 27786), (220, 27780), (229, 27732), (252, 27627),

Gene: Andromedas_35 Start: 25511, Stop: 24843, Start Num: 82

Candidate Starts for Andromedas_35:

(56, 25589), (Start: 66 @25544 has 1 MA's), (Start: 82 @25511 has 57 MA's), (116, 25364), (124, 25337), (134, 25298), (141, 25268), (144, 25256), (207, 25076), (218, 25028), (224, 25001), (238, 24941),

Gene: Anilorac_36 Start: 25981, Stop: 25313, Start Num: 78

Candidate Starts for Anilorac_36:

(Start: 78 @25981 has 139 MA's), (113, 25846), (174, 25627), (207, 25546), (209, 25540), (217, 25504), (218, 25498), (238, 25411),

Gene: AnnaSerena_45 Start: 30179, Stop: 31027, Start Num: 64

Candidate Starts for AnnaSerena_45:

(6, 29753), (10, 29783), (14, 29915), (Start: 64 @30179 has 42 MA's), (85, 30233), (90, 30269), (96, 30296), (108, 30341), (109, 30344), (120, 30389), (157, 30545), (167, 30581), (170, 30590), (171, 30593), (215, 30722), (219, 30737), (241, 30842), (252, 30884),

Gene: AnnabelLee_36 Start: 23600, Stop: 22806, Start Num: 58

Candidate Starts for AnnabelLee_36:

(53, 23633), (Start: 58 @23600 has 11 MA's), (93, 23486), (103, 23453), (112, 23417), (128, 23357), (129, 23354), (134, 23330), (138, 23306), (144, 23285), (147, 23276), (155, 23243), (165, 23213), (176, 23177), (200, 23099), (226, 22994), (234, 22943), (238, 22922),

Gene: Annapurna_45 Start: 29420, Stop: 30265, Start Num: 64

Candidate Starts for Annapurna_45:

(1, 28859), (5, 28955), (6, 28994), (7, 29000), (10, 29024), (13, 29120), (14, 29156), (Start: 64 @29420 has 42 MA's), (85, 29474), (90, 29510), (96, 29537), (108, 29582), (109, 29585), (120, 29630), (157, 29786), (167, 29822), (170, 29831), (171, 29834), (215, 29963), (219, 29978), (241, 30083), (252, 30125),

Gene: Antoinette_37 Start: 25898, Stop: 25230, Start Num: 78

Candidate Starts for Antoinette_37:

(Start: 78 @25898 has 139 MA's), (116, 25751), (124, 25724), (141, 25655), (144, 25643), (207, 25463), (218, 25415), (222, 25394), (252, 25259),

Gene: AranulaLuti_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for AranulaLuti_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (238, 25025), (252, 24956),

Gene: Artiphact_45 Start: 30168, Stop: 31016, Start Num: 64

Candidate Starts for Artiphact_45:

(6, 29742), (10, 29772), (14, 29904), (Start: 64 @30168 has 42 MA's), (85, 30222), (90, 30258), (96, 30285), (108, 30330), (109, 30333), (120, 30378), (157, 30534), (167, 30570), (170, 30579), (171, 30582), (215, 30711), (219, 30726), (241, 30831), (252, 30873),

Gene: Artu_96 Start: 80843, Stop: 81661, Start Num: 76

Candidate Starts for Artu_96:

(Start: 76 @80843 has 11 MA's), (Start: 87 @80870 has 1 MA's), (96, 80927), (99, 80936), (102, 80942), (176, 81218), (200, 81296), (222, 81386), (231, 81431), (245, 81500), (252, 81527), (265, 81638),

Gene: Asta_36 Start: 25608, Stop: 24940, Start Num: 78

Candidate Starts for Asta_36:

(Start: 78 @25608 has 139 MA's), (116, 25461), (124, 25434), (141, 25365), (144, 25353), (207, 25173), (218, 25125), (238, 25038), (252, 24969),

Gene: Atuin_98 Start: 84308, Stop: 85141, Start Num: 76

Candidate Starts for Atuin_98:

(Start: 76 @84308 has 11 MA's), (96, 84392), (99, 84401), (102, 84407), (131, 84512), (176, 84683), (200, 84761), (222, 84851), (229, 84893), (245, 84968), (251, 84989), (252, 84995),

Gene: Aubergine_36 Start: 25608, Stop: 24940, Start Num: 78

Candidate Starts for Aubergine_36:

(Start: 78 @25608 has 139 MA's), (116, 25461), (124, 25434), (141, 25365), (144, 25353), (207, 25173), (218, 25125), (222, 25104), (238, 25038), (252, 24969),

Gene: Audell_35 Start: 25989, Stop: 25204, Start Num: 58

Candidate Starts for Audell_35:

(48, 26040), (53, 26022), (Start: 58 @25989 has 11 MA's), (93, 25881), (98, 25863), (103, 25848), (112, 25812), (128, 25752), (134, 25725), (147, 25671), (155, 25638), (165, 25608), (176, 25572), (199, 25503), (200, 25494), (220, 25416), (224, 25398), (234, 25338), (238, 25317),

Gene: AxiPup_37 Start: 25880, Stop: 25212, Start Num: 78

Candidate Starts for AxiPup_37:

(Start: 78 @25880 has 139 MA's), (116, 25733), (124, 25706), (141, 25637), (144, 25625), (207, 25445), (218, 25397), (222, 25376), (238, 25310), (252, 25241),

Gene: Axym_39 Start: 28586, Stop: 27768, Start Num: 46

Candidate Starts for Axym_39:

(Start: 46 @28586 has 56 MA's), (97, 28430), (98, 28427), (110, 28379), (113, 28367), (132, 28289), (139, 28256), (144, 28241), (145, 28238), (157, 28196), (168, 28157), (171, 28148), (191, 28091), (209, 28028), (220, 27977), (242, 27863), (252, 27824),

Gene: Azira_38 Start: 28635, Stop: 27823, Start Num: 46

Candidate Starts for Azira_38:

(25, 28707), (Start: 46 @28635 has 56 MA's), (113, 28419), (123, 28383), (132, 28341), (135, 28326), (139, 28308), (144, 28293), (145, 28290), (157, 28248), (171, 28200), (192, 28140), (201, 28107), (215, 28053), (219, 28038), (242, 27921),

Gene: Baines_36 Start: 25598, Stop: 24930, Start Num: 78

Candidate Starts for Baines_36:

(Start: 78 @25598 has 139 MA's), (116, 25451), (124, 25424), (141, 25355), (144, 25343), (207, 25163), (218, 25115), (238, 25028), (252, 24959),

Gene: Balloona_40 Start: 29790, Stop: 28984, Start Num: 46

Candidate Starts for Balloona_40:

(Start: 46 @29790 has 56 MA's), (Start: 49 @29784 has 1 MA's), (Start: 87 @29682 has 1 MA's), (97, 29628), (113, 29565), (123, 29529), (139, 29454), (144, 29439), (159, 29391), (160, 29388), (168, 29355), (171, 29346), (191, 29289), (204, 29241), (205, 29238), (216, 29196), (238, 29103), (252, 29034),

Gene: Balsa_36 Start: 26028, Stop: 25360, Start Num: 78

Candidate Starts for Balsa_36:

(Start: 78 @26028 has 139 MA's), (113, 25893), (174, 25674), (207, 25593), (217, 25551), (218, 25545), (238, 25458),

Gene: Bandik_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Bandik_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (238, 25336), (252, 25267),

Gene: BaronJohn_34 Start: 24387, Stop: 23692, Start Num: 82

Candidate Starts for BaronJohn_34:

(30, 24534), (34, 24519), (Start: 82 @24387 has 57 MA's), (89, 24354), (111, 24258), (134, 24174), (177, 24024), (207, 23925), (210, 23916), (218, 23877), (226, 23841), (238, 23790),

Gene: Bavilard_41 Start: 30011, Stop: 29205, Start Num: 46

Candidate Starts for Bavilard_41:

(Start: 46 @30011 has 56 MA's), (Start: 49 @30005 has 1 MA's), (Start: 87 @29903 has 1 MA's), (97, 29849), (113, 29786), (123, 29750), (139, 29675), (144, 29660), (157, 29615), (159, 29612), (168, 29576), (171, 29567), (191, 29510), (204, 29462), (205, 29459), (216, 29417), (238, 29324), (252, 29255),

Gene: BeautPeep30_37 Start: 25912, Stop: 25244, Start Num: 78

Candidate Starts for BeautPeep30_37:

(Start: 78 @25912 has 139 MA's), (116, 25765), (124, 25738), (141, 25669), (144, 25657), (207, 25477), (218, 25429), (222, 25408), (252, 25273),

Gene: BeeBee8_37 Start: 26198, Stop: 25530, Start Num: 78

Candidate Starts for BeeBee8_37:

(Start: 78 @26198 has 139 MA's), (113, 26063), (174, 25844), (207, 25763), (217, 25721), (218, 25715), (238, 25628),

Gene: Benjalauren_37 Start: 25611, Stop: 24943, Start Num: 78

Candidate Starts for Benjalauren_37:

(Start: 78 @25611 has 139 MA's), (116, 25464), (124, 25437), (141, 25368), (144, 25356), (207, 25176), (218, 25128), (222, 25107), (238, 25041), (252, 24972),

Gene: Big4_101 Start: 75498, Stop: 74737, Start Num: 75

Candidate Starts for Big4_101:

(Start: 75 @75498 has 2 MA's), (128, 75306), (129, 75303), (134, 75279), (166, 75156), (176, 75126), (197, 75060), (200, 75048), (215, 74988), (223, 74952), (234, 74895), (240, 74853), (252, 74799),

Gene: BigChungus_41 Start: 30191, Stop: 29385, Start Num: 46

Candidate Starts for BigChungus_41:

(Start: 46 @30191 has 56 MA's), (Start: 49 @30185 has 1 MA's), (Start: 87 @30083 has 1 MA's), (97, 30029), (113, 29966), (139, 29855), (144, 29840), (157, 29795), (159, 29792), (168, 29756), (171, 29747), (191, 29690), (204, 29642), (205, 29639), (216, 29597), (238, 29504), (252, 29435),

Gene: BigRedClifford_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for BigRedClifford_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (252, 25271),

Gene: BillDoor_40 Start: 28078, Stop: 27242, Start Num: 41

Candidate Starts for BillDoor_40:

(Start: 41 @28078 has 3 MA's), (Start: 46 @28060 has 56 MA's), (Start: 49 @28054 has 1 MA's), (97, 27904), (110, 27853), (113, 27841), (132, 27763), (139, 27730), (145, 27712), (157, 27670), (159, 27667), (168, 27631), (171, 27622), (172, 27619), (191, 27565), (201, 27526), (219, 27457), (220, 27451), (229, 27403), (252, 27298),

Gene: Biskit_42 Start: 28753, Stop: 27935, Start Num: 46

Candidate Starts for Biskit_42:

(Start: 41 @28771 has 3 MA's), (Start: 46 @28753 has 56 MA's), (Start: 49 @28747 has 1 MA's), (97, 28597), (98, 28594), (113, 28534), (132, 28456), (139, 28423), (145, 28405), (157, 28363), (159, 28360), (168, 28324), (171, 28315), (191, 28258), (201, 28219), (213, 28174), (216, 28162), (219, 28150), (220, 28144), (229, 28096), (252, 27991),

Gene: Blage_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for Blage_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (252, 25271),

Gene: Blondies_43 Start: 29087, Stop: 28251, Start Num: 41

Candidate Starts for Blondies_43:

(Start: 41 @29087 has 3 MA's), (Start: 46 @29069 has 56 MA's), (Start: 49 @29063 has 1 MA's), (97, 28913), (98, 28910), (113, 28850), (132, 28772), (139, 28739), (145, 28721), (157, 28679), (159, 28676), (168, 28640), (171, 28631), (191, 28574), (213, 28490), (219, 28466), (220, 28460), (229, 28412), (252, 28307),

Gene: Bloom_108 Start: 84483, Stop: 85292, Start Num: 76

Candidate Starts for Bloom_108:

(Start: 76 @84483 has 11 MA's), (103, 84588), (176, 84858), (200, 84936), (244, 85137), (252, 85167), (253, 85170), (261, 85200), (265, 85269), (266, 85287),

Gene: BlueNGold_163 Start: 93500, Stop: 92757, Start Num: 73

Candidate Starts for BlueNGold_163:

(Start: 73 @93500 has 6 MA's), (Start: 87 @93473 has 1 MA's), (99, 93407), (112, 93365), (116, 93350), (122, 93332), (137, 93257), (177, 93122), (180, 93113), (184, 93104), (188, 93095), (197, 93059), (200, 93047), (203, 93038), (215, 92987), (216, 92984), (222, 92954), (224, 92948), (234, 92900), (240, 92858), (243, 92846), (250, 92819), (253, 92807),

Gene: Boersma_63 Start: 41212, Stop: 40472, Start Num: 57

Candidate Starts for Boersma_63:

(Start: 57 @41212 has 13 MA's), (65, 41182), (Start: 73 @41158 has 6 MA's), (Start: 79 @41146 has 5 MA's), (81, 41143), (84, 41137), (92, 41095), (94, 41086), (101, 41071), (104, 41062), (131, 40963), (133, 40948), (164, 40828), (169, 40810), (183, 40771), (187, 40762), (214, 40681), (221, 40654), (233, 40609), (234, 40606), (238, 40585), (246, 40540), (250, 40525),

Gene: BonesMcCoy_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for BonesMcCoy_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (252, 25271),

Gene: Bonino_36 Start: 25584, Stop: 24916, Start Num: 78

Candidate Starts for Bonino_36:

(Start: 78 @25584 has 139 MA's), (116, 25437), (124, 25410), (141, 25341), (144, 25329), (207, 25149), (218, 25101), (238, 25014), (252, 24945),

Gene: BooTeria_100 Start: 81040, Stop: 81774, Start Num: 96

Candidate Starts for BooTeria_100:

(Start: 76 @80956 has 11 MA's), (Start: 87 @80983 has 1 MA's), (96, 81040), (99, 81049), (102, 81055), (176, 81331), (196, 81394), (200, 81409), (222, 81499), (231, 81544), (245, 81613), (252, 81640), (264, 81736), (265, 81751),

Gene: Boopy_166 Start: 93511, Stop: 92768, Start Num: 73

Candidate Starts for Boopy_166:

(Start: 73 @93511 has 6 MA's), (Start: 87 @93484 has 1 MA's), (99, 93418), (112, 93376), (116, 93361), (122, 93343), (137, 93268), (177, 93133), (180, 93124), (184, 93115), (188, 93106), (197, 93070), (200, 93058), (203, 93049), (215, 92998), (216, 92995), (222, 92965), (224, 92959), (234, 92911), (240, 92869), (243, 92857), (250, 92830), (253, 92818),

Gene: BouleyBill_34 Start: 25365, Stop: 24700, Start Num: 82

Candidate Starts for BouleyBill_34:

(23, 25548), (44, 25479), (56, 25446), (67, 25398), (Start: 82 @25365 has 57 MA's), (113, 25230), (124, 25191), (141, 25122), (177, 25008), (201, 24954), (207, 24933), (210, 24924), (218, 24885), (220, 24876), (226, 24849), (238, 24798), (240, 24777),

Gene: Bramble_49 Start: 31162, Stop: 32004, Start Num: 64

Candidate Starts for Bramble_49:

(Start: 64 @31162 has 42 MA's), (Start: 87 @31225 has 1 MA's), (105, 31309), (108, 31321), (109, 31324), (146, 31486), (157, 31522), (167, 31558), (194, 31621), (198, 31630), (215, 31699), (219, 31714), (252, 31861),

Gene: Bubble_38 Start: 28195, Stop: 27377, Start Num: 46

Candidate Starts for Bubble_38:

(Start: 46 @28195 has 56 MA's), (97, 28039), (98, 28036), (110, 27988), (113, 27976), (132, 27898), (139, 27865), (144, 27850), (145, 27847), (157, 27805), (168, 27766), (171, 27757), (178, 27736), (191, 27700), (209, 27637), (220, 27586), (242, 27472), (252, 27433),

Gene: Burnsey_39 Start: 28599, Stop: 27781, Start Num: 46

Candidate Starts for Burnsey_39:

(Start: 46 @28599 has 56 MA's), (97, 28443), (98, 28440), (110, 28392), (113, 28380), (132, 28302), (139, 28269), (144, 28254), (145, 28251), (157, 28209), (168, 28170), (171, 28161), (178, 28140), (191, 28104), (209, 28041), (220, 27990), (242, 27876), (252, 27837),

Gene: Bustleton_34 Start: 25368, Stop: 24703, Start Num: 82

Candidate Starts for Bustleton_34:

(23, 25551), (44, 25482), (56, 25449), (67, 25401), (Start: 82 @25368 has 57 MA's), (113, 25233), (124, 25194), (141, 25125), (177, 25011), (201, 24957), (207, 24936), (210, 24927), (218, 24888), (220, 24879), (226, 24852), (238, 24801), (240, 24780),

Gene: Button_43 Start: 29230, Stop: 28424, Start Num: 45

Candidate Starts for Button_43:

(21, 29314), (27, 29284), (28, 29278), (Start: 45 @29230 has 3 MA's), (Start: 46 @29227 has 56 MA's), (Start: 87 @29128 has 1 MA's), (113, 29017), (126, 28969), (135, 28924), (139, 28906), (144, 28891), (145, 28888), (159, 28843), (168, 28807), (171, 28798), (201, 28702), (209, 28678), (216, 28645), (219, 28633), (220, 28627), (225, 28606),

Gene: Buttrmlkdreams_42 Start: 29086, Stop: 28268, Start Num: 46

Candidate Starts for Buttrmlkdreams_42:

(Start: 41 @29104 has 3 MA's), (Start: 46 @29086 has 56 MA's), (Start: 49 @29080 has 1 MA's), (97, 28930), (98, 28927), (113, 28867), (132, 28789), (139, 28756), (145, 28738), (157, 28696), (159, 28693), (168, 28657), (171, 28648), (191, 28591), (201, 28552), (213, 28507), (216, 28495), (219, 28483), (220, 28477), (229, 28429), (252, 28324),

Gene: Byron23_37 Start: 25909, Stop: 25241, Start Num: 78

Candidate Starts for Byron23_37:

(Start: 78 @25909 has 139 MA's), (116, 25762), (124, 25735), (141, 25666), (144, 25654), (207, 25474), (218, 25426), (222, 25405), (238, 25339), (252, 25270),

Gene: C3PO_52 Start: 45078, Stop: 44314, Start Num: 62

Candidate Starts for C3PO_52:

(Start: 62 @45078 has 17 MA's), (113, 44886), (120, 44859), (136, 44784), (206, 44577), (219, 44523), (230, 44478), (249, 44394),

Gene: Calix_36 Start: 25591, Stop: 24923, Start Num: 78

Candidate Starts for Calix_36:

(Start: 78 @25591 has 139 MA's), (116, 25444), (124, 25417), (141, 25348), (144, 25336), (207, 25156), (218, 25108), (238, 25021), (252, 24952),

Gene: CanesSauce_39 Start: 28556, Stop: 27744, Start Num: 49

Candidate Starts for CanesSauce_39:

(Start: 41 @28580 has 3 MA's), (Start: 46 @28562 has 56 MA's), (Start: 49 @28556 has 1 MA's), (97, 28406), (98, 28403), (110, 28355), (113, 28343), (132, 28265), (139, 28232), (145, 28214), (157, 28172), (159, 28169), (168, 28133), (171, 28124), (172, 28121), (191, 28067), (201, 28028), (219,

27959), (220, 27953), (229, 27905), (252, 27800),

Gene: CaptainRex_34 Start: 23799, Stop: 23104, Start Num: 82

Candidate Starts for CaptainRex_34:

(30, 23946), (34, 23931), (Start: 82 @23799 has 57 MA's), (89, 23766), (111, 23670), (177, 23436), (207, 23337), (210, 23328), (218, 23289), (226, 23253), (238, 23202),

Gene: CaramellLatte_39 Start: 28556, Stop: 27744, Start Num: 49

Candidate Starts for CaramellLatte_39:

(Start: 41 @28580 has 3 MA's), (Start: 46 @28562 has 56 MA's), (Start: 49 @28556 has 1 MA's), (97, 28406), (98, 28403), (110, 28355), (113, 28343), (132, 28265), (139, 28232), (145, 28214), (157, 28172), (159, 28169), (168, 28133), (171, 28124), (172, 28121), (191, 28067), (201, 28028), (219, 27959), (220, 27953), (229, 27905), (252, 27800),

Gene: CardboardBox_37 Start: 23603, Stop: 22809, Start Num: 58

Candidate Starts for CardboardBox_37:

(53, 23636), (Start: 58 @23603 has 11 MA's), (93, 23489), (103, 23456), (112, 23420), (128, 23360), (129, 23357), (134, 23333), (138, 23309), (144, 23288), (147, 23279), (155, 23246), (165, 23216), (176, 23180), (200, 23102), (226, 22997), (234, 22946), (238, 22925),

Gene: CarisSwetlik_39 Start: 26807, Stop: 26139, Start Num: 78

Candidate Starts for CarisSwetlik_39:

(22, 26990), (30, 26951), (34, 26936), (Start: 78 @26807 has 139 MA's), (118, 26654), (124, 26633), (133, 26597), (141, 26564), (144, 26552), (157, 26513), (207, 26372), (210, 26363), (218, 26324), (220, 26315), (229, 26273), (238, 26237), (252, 26168),

Gene: Carostasia_33 Start: 25201, Stop: 24530, Start Num: 82

Candidate Starts for Carostasia_33:

(Start: 39 @25318 has 1 MA's), (51, 25285), (61, 25240), (Start: 82 @25201 has 57 MA's), (111, 25072), (124, 25027), (167, 24865), (177, 24838), (178, 24835), (198, 24796), (207, 24763), (210, 24754), (218, 24715), (229, 24664), (238, 24628), (246, 24583), (252, 24559),

Gene: Carsonalex_43 Start: 28636, Stop: 27818, Start Num: 46

Candidate Starts for Carsonalex_43:

(Start: 46 @28636 has 56 MA's), (97, 28480), (98, 28477), (110, 28429), (113, 28417), (132, 28339), (139, 28306), (144, 28291), (145, 28288), (157, 28246), (168, 28207), (171, 28198), (191, 28141), (209, 28078), (220, 28027), (242, 27913), (252, 27874),

Gene: Casey_33 Start: 24761, Stop: 24096, Start Num: 82

Candidate Starts for Casey_33:

(30, 24908), (34, 24893), (Start: 82 @24761 has 57 MA's), (107, 24653), (129, 24572), (177, 24404), (185, 24386), (187, 24380), (212, 24314), (218, 24281), (220, 24272), (222, 24260), (238, 24194),

Gene: Cece_95 Start: 78538, Stop: 77750, Start Num: 70

Candidate Starts for Cece_95:

(Start: 70 @78538 has 1 MA's), (Start: 75 @78532 has 2 MA's), (Start: 87 @78508 has 1 MA's), (116, 78385), (128, 78337), (130, 78331), (134, 78310), (135, 78301), (154, 78229), (165, 78193), (166, 78187), (176, 78157), (189, 78124), (200, 78079), (208, 78052), (215, 78019), (234, 77926), (249, 77845), (252, 77830),

Gene: Chako_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for Chako_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (238, 25025), (252, 24956),

Gene: ChamoyPickle_38 Start: 24143, Stop: 23349, Start Num: 58

Candidate Starts for ChamoyPickle_38:

(53, 24176), (Start: 58 @24143 has 11 MA's), (93, 24029), (103, 23996), (112, 23960), (128, 23900), (129, 23897), (134, 23873), (138, 23849), (144, 23828), (147, 23819), (155, 23786), (165, 23756), (176, 23720), (200, 23642), (226, 23537), (234, 23486), (238, 23465),

Gene: Chamuel_36 Start: 25584, Stop: 24916, Start Num: 78

Candidate Starts for Chamuel_36:

(Start: 78 @25584 has 139 MA's), (116, 25437), (124, 25410), (141, 25341), (144, 25329), (207, 25149), (218, 25101), (238, 25014), (252, 24945),

Gene: Cheeto1_37 Start: 26043, Stop: 25378, Start Num: 78

Candidate Starts for Cheeto1_37:

(Start: 78 @26043 has 139 MA's), (134, 25830), (141, 25800), (143, 25794), (163, 25734), (177, 25686), (207, 25611), (210, 25602), (218, 25563), (220, 25554), (229, 25512), (238, 25476),

Gene: Chepli_36 Start: 25000, Stop: 24329, Start Num: 82

Candidate Starts for Chepli_36:

(Start: 39 @25114 has 1 MA's), (51, 25081), (61, 25036), (Start: 82 @25000 has 57 MA's), (89, 24967), (111, 24871), (124, 24826), (129, 24811), (167, 24664), (175, 24643), (206, 24565), (207, 24562), (210, 24553), (216, 24523), (218, 24514), (226, 24478), (238, 24427), (252, 24358),

Gene: CherryonLim_43 Start: 31329, Stop: 30523, Start Num: 46

Candidate Starts for CherryonLim_43:

(Start: 46 @31329 has 56 MA's), (Start: 49 @31323 has 1 MA's), (Start: 87 @31221 has 1 MA's), (97, 31167), (113, 31104), (139, 30993), (157, 30933), (159, 30930), (168, 30894), (171, 30885), (191, 30828), (204, 30780), (205, 30777), (216, 30735), (238, 30642), (252, 30573),

Gene: ChickenKing_36 Start: 25959, Stop: 25294, Start Num: 78

Candidate Starts for ChickenKing_36:

(Start: 78 @25959 has 139 MA's), (134, 25746), (141, 25716), (163, 25650), (177, 25602), (207, 25527), (210, 25518), (218, 25479), (220, 25470), (229, 25428), (238, 25392),

Gene: ChickenTender_42 Start: 28367, Stop: 27552, Start Num: 46

Candidate Starts for ChickenTender_42:

(Start: 46 @28367 has 56 MA's), (97, 28211), (98, 28208), (110, 28160), (113, 28148), (132, 28070), (139, 28037), (144, 28022), (145, 28019), (157, 27977), (168, 27938), (171, 27929), (191, 27872), (209, 27809), (220, 27758), (242, 27644),

Gene: ChikPic_35 Start: 25521, Stop: 24853, Start Num: 82

Candidate Starts for ChikPic_35:

(56, 25599), (Start: 66 @25554 has 1 MA's), (Start: 82 @25521 has 57 MA's), (116, 25374), (124, 25347), (134, 25308), (141, 25278), (144, 25266), (207, 25086), (218, 25038), (224, 25011), (238, 24951),

Gene: Chilliams_103 Start: 77303, Stop: 78091, Start Num: 85

Candidate Starts for Chilliams_103:

(Start: 76 @77282 has 11 MA's), (85, 77303), (102, 77381), (103, 77387), (147, 77558), (176, 77657), (200, 77735), (219, 77807), (222, 77825), (245, 77942), (265, 78068),

Gene: ChipsNGuac_36 Start: 23603, Stop: 22809, Start Num: 58

Candidate Starts for ChipsNGuac_36:

(53, 23636), (Start: 58 @23603 has 11 MA's), (93, 23489), (103, 23456), (112, 23420), (128, 23360), (129, 23357), (134, 23333), (138, 23309), (144, 23288), (147, 23279), (155, 23246), (165, 23216), (176, 23180), (200, 23102), (226, 22997), (234, 22946), (238, 22925),

Gene: Chivey_45 Start: 29369, Stop: 30214, Start Num: 64

Candidate Starts for Chivey_45:

(1, 28808), (5, 28904), (6, 28943), (7, 28949), (10, 28973), (13, 29069), (14, 29105), (Start: 64 @29369 has 42 MA's), (85, 29423), (90, 29459), (96, 29486), (108, 29531), (109, 29534), (120, 29579), (157, 29735), (167, 29771), (170, 29780), (171, 29783), (215, 29912), (219, 29927), (241, 30032), (252, 30074),

Gene: ChocoMunchkin_39 Start: 28562, Stop: 27744, Start Num: 46

Candidate Starts for ChocoMunchkin_39:

(Start: 41 @28580 has 3 MA's), (Start: 46 @28562 has 56 MA's), (Start: 49 @28556 has 1 MA's), (97, 28406), (98, 28403), (110, 28355), (113, 28343), (132, 28265), (139, 28232), (145, 28214), (157, 28172), (159, 28169), (168, 28133), (171, 28124), (172, 28121), (191, 28067), (201, 28028), (219, 27959), (220, 27953), (229, 27905), (252, 27800),

Gene: Christoph_36 Start: 25606, Stop: 24938, Start Num: 78

Candidate Starts for Christoph_36:

(Start: 78 @25606 has 139 MA's), (116, 25459), (124, 25432), (141, 25363), (144, 25351), (207, 25171), (218, 25123), (222, 25102), (238, 25036), (252, 24967),

Gene: Clancy_36 Start: 25640, Stop: 24972, Start Num: 78

Candidate Starts for Clancy_36:

(Start: 78 @25640 has 139 MA's), (116, 25493), (124, 25466), (141, 25397), (144, 25385), (207, 25205), (218, 25157), (222, 25136), (238, 25070), (252, 25001),

Gene: Cleo_36 Start: 28180, Stop: 27371, Start Num: 46

Candidate Starts for Cleo_36:

(Start: 46 @28180 has 56 MA's), (Start: 87 @28078 has 1 MA's), (113, 27967), (135, 27874), (139, 27856), (144, 27841), (145, 27838), (157, 27796), (171, 27748), (192, 27688), (201, 27655), (209, 27631), (215, 27601), (219, 27586), (242, 27469),

Gene: Clock_34 Start: 26629, Stop: 25934, Start Num: 82

Candidate Starts for Clock_34:

(34, 26758), (Start: 82 @26629 has 57 MA's), (89, 26596), (102, 26545), (111, 26500), (124, 26455), (134, 26416), (163, 26314), (177, 26266), (207, 26167), (210, 26158), (218, 26119), (226, 26083), (238, 26032),

Gene: CocoaPuff_42 Start: 30196, Stop: 29390, Start Num: 46

Candidate Starts for CocoaPuff_42:

(Start: 46 @30196 has 56 MA's), (Start: 49 @30190 has 1 MA's), (Start: 87 @30088 has 1 MA's), (97, 30034), (113, 29971), (139, 29860), (144, 29845), (157, 29800), (159, 29797), (168, 29761), (171, 29752), (191, 29695), (204, 29647), (205, 29644), (216, 29602), (238, 29509), (252, 29440),

Gene: ColaCorta_35 Start: 25511, Stop: 24843, Start Num: 82

Candidate Starts for ColaCorta_35:

(56, 25589), (Start: 66 @25544 has 1 MA's), (Start: 82 @25511 has 57 MA's), (116, 25364), (124, 25337), (134, 25298), (141, 25268), (144, 25256), (207, 25076), (218, 25028), (224, 25001), (238, 24941),

Gene: Commonplace_63 Start: 41846, Stop: 41034, Start Num: 43

Candidate Starts for Commonplace_63:

(26, 41897), (Start: 43 @41846 has 2 MA's), (52, 41822), (Start: 57 @41801 has 13 MA's), (59, 41783), (72, 41747), (121, 41564), (137, 41492), (138, 41489), (149, 41456), (165, 41396), (195, 41321), (254, 41078),

Gene: Convict_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for Convict_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (252, 25271),

Gene: CoolCookie_45 Start: 30174, Stop: 31022, Start Num: 64

Candidate Starts for CoolCookie_45:

(6, 29748), (10, 29778), (14, 29910), (Start: 64 @30174 has 42 MA's), (85, 30228), (90, 30264), (96, 30291), (108, 30336), (109, 30339), (120, 30384), (157, 30540), (167, 30576), (170, 30585), (171, 30588), (215, 30717), (219, 30732), (241, 30837), (252, 30879),

Gene: CoraRita_36 Start: 25610, Stop: 24942, Start Num: 78

Candidate Starts for CoraRita_36:

(Start: 78 @25610 has 139 MA's), (116, 25463), (124, 25436), (141, 25367), (144, 25355), (207, 25175), (218, 25127), (222, 25106), (238, 25040), (252, 24971),

Gene: Cozz_38 Start: 28196, Stop: 27378, Start Num: 46

Candidate Starts for Cozz_38:

(Start: 46 @28196 has 56 MA's), (97, 28040), (98, 28037), (110, 27989), (113, 27977), (126, 27929), (132, 27899), (139, 27866), (144, 27851), (145, 27848), (157, 27806), (168, 27767), (171, 27758), (191, 27701), (220, 27587), (242, 27473), (252, 27434),

Gene: Crestdrop_45 Start: 29400, Stop: 30245, Start Num: 64

Candidate Starts for Crestdrop_45:

(2, 28890), (3, 28896), (4, 28923), (6, 28974), (10, 29004), (14, 29136), (Start: 64 @29400 has 42 MA's), (85, 29454), (90, 29490), (96, 29517), (108, 29562), (109, 29565), (120, 29610), (157, 29766), (167, 29802), (170, 29811), (171, 29814), (215, 29943), (219, 29958), (241, 30063), (252, 30105),

Gene: Cruella_52 Start: 45078, Stop: 44314, Start Num: 62

Candidate Starts for Cruella_52:

(Start: 62 @45078 has 17 MA's), (113, 44886), (120, 44859), (136, 44784), (206, 44577), (219, 44523), (230, 44478), (249, 44394),

Gene: Cybele_45 Start: 30144, Stop: 30992, Start Num: 64

Candidate Starts for Cybele_45:

(6, 29718), (10, 29748), (14, 29880), (Start: 64 @30144 has 42 MA's), (85, 30198), (90, 30234), (96, 30261), (108, 30306), (109, 30309), (120, 30354), (157, 30510), (167, 30546), (170, 30555), (171, 30558), (215, 30687), (219, 30702), (241, 30807), (252, 30849),

Gene: DannyDe_45 Start: 29375, Stop: 30220, Start Num: 64

Candidate Starts for DannyDe_45:

(1, 28814), (5, 28910), (6, 28949), (7, 28955), (10, 28979), (13, 29075), (14, 29111), (Start: 64 @29375 has 42 MA's), (85, 29429), (90, 29465), (96, 29492), (108, 29537), (109, 29540), (120, 29585), (157, 29741), (167, 29777), (170, 29786), (171, 29789), (215, 29918), (219, 29933), (241, 30038), (252, 30080),

Gene: Darwin_56 Start: 44559, Stop: 43795, Start Num: 62

Candidate Starts for Darwin_56:

(Start: 62 @44559 has 17 MA's), (120, 44340), (134, 44283), (206, 44058), (219, 44004), (230, 43959), (249, 43875),

Gene: Dauntless_44 Start: 29727, Stop: 30572, Start Num: 64

Candidate Starts for Dauntless_44:

(6, 29301), (10, 29331), (11, 29358), (13, 29427), (14, 29463), (Start: 64 @29727 has 42 MA's), (85, 29781), (90, 29817), (96, 29844), (108, 29889), (109, 29892), (120, 29937), (157, 30093), (167, 30129), (170, 30138), (171, 30141), (215, 30270), (219, 30285), (241, 30390), (252, 30432),

Gene: Dave_37 Start: 25898, Stop: 25230, Start Num: 78

Candidate Starts for Dave_37:

(Start: 78 @25898 has 139 MA's), (116, 25751), (124, 25724), (141, 25655), (144, 25643), (207, 25463), (218, 25415), (222, 25394), (252, 25259),

Gene: Delphidian_37 Start: 25909, Stop: 25241, Start Num: 78

Candidate Starts for Delphidian_37:

(Start: 78 @25909 has 139 MA's), (116, 25762), (124, 25735), (141, 25666), (144, 25654), (207, 25474), (218, 25426), (222, 25405), (252, 25270),

Gene: Den3_37 Start: 25915, Stop: 25247, Start Num: 78

Candidate Starts for Den3_37:

(Start: 78 @25915 has 139 MA's), (116, 25768), (124, 25741), (141, 25672), (144, 25660), (207, 25480), (218, 25432), (222, 25411), (252, 25276),

Gene: Dodo_114 Start: 76719, Stop: 75925, Start Num: 78

Candidate Starts for Dodo_114:

(Start: 78 @76719 has 139 MA's), (83, 76707), (92, 76656), (113, 76584), (116, 76572), (128, 76527), (129, 76524), (166, 76377), (176, 76347), (197, 76281), (200, 76269), (203, 76260), (214, 76212), (234, 76116), (252, 76020), (257, 75990), (263, 75969),

Gene: Dothraki_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Dothraki_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (238, 25336), (252, 25267),

Gene: Dre3_36 Start: 27923, Stop: 27114, Start Num: 46

Candidate Starts for Dre3_36:

(Start: 46 @27923 has 56 MA's), (Start: 87 @27821 has 1 MA's), (113, 27710), (135, 27617), (139, 27599), (144, 27584), (145, 27581), (157, 27539), (171, 27491), (192, 27431), (201, 27398), (209, 27374), (215, 27344), (219, 27329), (242, 27212),

Gene: Dryad_68 Start: 46911, Stop: 46123, Start Num: 62

Candidate Starts for Dryad_68:

(Start: 62 @46911 has 17 MA's), (71, 46884), (85, 46857), (88, 46848), (90, 46821), (96, 46797), (97, 46794), (135, 46635), (161, 46545), (162, 46539), (173, 46500), (181, 46479), (219, 46362), (220, 46356), (224, 46338), (231, 46311), (246, 46239),

Gene: DunneganBoMo_93 Start: 80225, Stop: 81043, Start Num: 76

Candidate Starts for DunneganBoMo_93:

(Start: 76 @80225 has 11 MA's), (Start: 87 @80252 has 1 MA's), (96, 80309), (99, 80318), (102, 80324), (176, 80600), (196, 80663), (200, 80678), (222, 80768), (231, 80813), (245, 80882), (252,

80909), (264, 81005), (265, 81020),

Gene: Duocatuli_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for Duocatuli_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (229, 25061), (238, 25025), (252, 24956),

Gene: ElJefes_42 Start: 30536, Stop: 29730, Start Num: 46

Candidate Starts for ElJefes_42:

(Start: 46 @30536 has 56 MA's), (Start: 87 @30428 has 1 MA's), (97, 30374), (113, 30311), (139, 30200), (144, 30185), (157, 30140), (159, 30137), (168, 30101), (171, 30092), (191, 30035), (204, 29987), (205, 29984), (216, 29942), (238, 29849), (252, 29780),

Gene: Eleri_35 Start: 25512, Stop: 24844, Start Num: 82

Candidate Starts for Eleri_35:

(56, 25590), (Start: 66 @25545 has 1 MA's), (Start: 82 @25512 has 57 MA's), (116, 25365), (124, 25338), (134, 25299), (141, 25269), (144, 25257), (207, 25077), (218, 25029), (224, 25002), (238, 24942),

Gene: Elinal_45 Start: 30579, Stop: 29773, Start Num: 46

Candidate Starts for Elinal_45:

(Start: 46 @30579 has 56 MA's), (Start: 49 @30573 has 1 MA's), (Start: 87 @30471 has 1 MA's), (97, 30417), (113, 30354), (123, 30318), (139, 30243), (144, 30228), (157, 30183), (159, 30180), (168, 30144), (171, 30135), (191, 30078), (204, 30030), (205, 30027), (216, 29985), (238, 29892), (252, 29823),

Gene: Eliott_40 Start: 28607, Stop: 27789, Start Num: 46

Candidate Starts for Eliott_40:

(Start: 46 @28607 has 56 MA's), (97, 28451), (98, 28448), (110, 28400), (113, 28388), (132, 28310), (139, 28277), (144, 28262), (145, 28259), (157, 28217), (168, 28178), (171, 28169), (191, 28112), (209, 28049), (220, 27998), (242, 27884), (252, 27845),

Gene: Ellewin_92 Start: 79636, Stop: 80454, Start Num: 76

Candidate Starts for Ellewin_92:

(Start: 76 @79636 has 11 MA's), (Start: 87 @79663 has 1 MA's), (96, 79720), (99, 79729), (102, 79735), (176, 80011), (196, 80074), (200, 80089), (222, 80179), (231, 80224), (245, 80293), (252, 80320), (265, 80431),

Gene: Emalyn_40 Start: 28151, Stop: 27339, Start Num: 49

Candidate Starts for Emalyn_40:

(Start: 41 @28175 has 3 MA's), (Start: 46 @28157 has 56 MA's), (Start: 49 @28151 has 1 MA's), (97, 28001), (98, 27998), (110, 27950), (113, 27938), (132, 27860), (139, 27827), (145, 27809), (157, 27767), (159, 27764), (168, 27728), (171, 27719), (191, 27662), (201, 27623), (219, 27554), (229, 27500), (242, 27434),

Gene: Emmetator_96 Start: 80264, Stop: 80998, Start Num: 96

Candidate Starts for Emmetator_96:

(Start: 76 @80180 has 11 MA's), (Start: 87 @80207 has 1 MA's), (96, 80264), (99, 80273), (102, 80279), (176, 80555), (200, 80633), (222, 80723), (231, 80768), (245, 80837), (252, 80864), (265, 80975),

Gene: Endor_37 Start: 26257, Stop: 25589, Start Num: 78

Candidate Starts for Endor_37:

(Start: 78 @26257 has 139 MA's), (113, 26122), (174, 25903), (179, 25891), (207, 25822), (217, 25780), (218, 25774), (238, 25687),

Gene: Erasmago_103 Start: 73184, Stop: 72417, Start Num: 75

Candidate Starts for Erasmago_103:

(36, 73313), (37, 73307), (Start: 75 @73184 has 2 MA's), (128, 72992), (129, 72989), (135, 72956), (160, 72869), (166, 72842), (176, 72812), (197, 72746), (200, 72734), (215, 72674), (221, 72650), (223, 72638), (234, 72581), (246, 72515), (252, 72485),

Gene: Erla_36 Start: 25588, Stop: 24920, Start Num: 78

Candidate Starts for Erla_36:

(Start: 78 @25588 has 139 MA's), (116, 25441), (124, 25414), (141, 25345), (144, 25333), (207, 25153), (218, 25105), (238, 25018), (252, 24949),

Gene: Erudite_44 Start: 29727, Stop: 30572, Start Num: 64

Candidate Starts for Erudite_44:

(6, 29301), (10, 29331), (11, 29358), (13, 29427), (14, 29463), (Start: 64 @29727 has 42 MA's), (85, 29781), (90, 29817), (96, 29844), (108, 29889), (109, 29892), (120, 29937), (157, 30093), (167, 30129), (170, 30138), (171, 30141), (215, 30270), (219, 30285), (241, 30390), (252, 30432),

Gene: Espinosa_36 Start: 25606, Stop: 24938, Start Num: 78

Candidate Starts for Espinosa_36:

(Start: 78 @25606 has 139 MA's), (116, 25459), (124, 25432), (141, 25363), (144, 25351), (207, 25171), (218, 25123), (222, 25102), (238, 25036), (252, 24967),

Gene: Etna_36 Start: 26039, Stop: 25371, Start Num: 78

Candidate Starts for Etna_36:

(Start: 78 @26039 has 139 MA's), (113, 25904), (174, 25685), (207, 25604), (217, 25562), (218, 25556), (238, 25469),

Gene: Etta_36 Start: 25592, Stop: 24924, Start Num: 78

Candidate Starts for Etta_36:

(Start: 78 @25592 has 139 MA's), (116, 25445), (124, 25418), (141, 25349), (144, 25337), (207, 25157), (218, 25109), (238, 25022), (252, 24953),

Gene: Exploradora_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for Exploradora_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (238, 25025), (252, 24956),

Gene: Ezurina_35 Start: 24660, Stop: 23866, Start Num: 58

Candidate Starts for Ezurina_35:

(53, 24693), (Start: 58 @24660 has 11 MA's), (93, 24546), (103, 24513), (112, 24477), (129, 24414), (134, 24390), (138, 24366), (147, 24336), (155, 24303), (165, 24273), (176, 24237), (200, 24159), (226, 24054), (234, 24003), (238, 23982),

Gene: FF47_41 Start: 30836, Stop: 29991, Start Num: 33

Candidate Starts for FF47_41:

(Start: 33 @30836 has 2 MA's), (Start: 46 @30812 has 56 MA's), (Start: 79 @30719 has 5 MA's), (92, 30659), (113, 30581), (120, 30554), (132, 30503), (139, 30470), (171, 30362), (181, 30335), (212, 30233), (219, 30197), (225, 30170), (237, 30107), (253, 30032), (255, 30023),

Gene: FarmerDoug_36 Start: 25888, Stop: 25220, Start Num: 78

Candidate Starts for FarmerDoug_36:

(Start: 78 @25888 has 139 MA's), (125, 25711), (165, 25564), (174, 25534), (207, 25453), (209, 25447), (217, 25411), (218, 25405), (238, 25318),

Gene: Feastonyeet_41 Start: 30191, Stop: 29385, Start Num: 46

Candidate Starts for Feastonyeet_41:

(Start: 46 @30191 has 56 MA's), (Start: 49 @30185 has 1 MA's), (Start: 87 @30083 has 1 MA's), (97, 30029), (113, 29966), (139, 29855), (144, 29840), (157, 29795), (159, 29792), (168, 29756), (171, 29747), (191, 29690), (204, 29642), (205, 29639), (216, 29597), (238, 29504), (252, 29435),

Gene: Figueroism_37 Start: 25900, Stop: 25232, Start Num: 78

Candidate Starts for Figueroism_37:

(Start: 78 @25900 has 139 MA's), (116, 25753), (124, 25726), (141, 25657), (144, 25645), (207, 25465), (218, 25417), (222, 25396), (238, 25330), (252, 25261),

Gene: Finny_35 Start: 25552, Stop: 24884, Start Num: 82

Candidate Starts for Finny_35:

(56, 25630), (Start: 66 @25585 has 1 MA's), (Start: 82 @25552 has 57 MA's), (116, 25405), (124, 25378), (134, 25339), (141, 25309), (144, 25297), (207, 25117), (218, 25069), (224, 25042), (238, 24982),

Gene: FloraSnap32_104 Start: 83380, Stop: 84189, Start Num: 76

Candidate Starts for FloraSnap32_104:

(Start: 76 @83380 has 11 MA's), (103, 83485), (176, 83755), (200, 83833), (252, 84064), (253, 84067), (261, 84097), (262, 84100), (265, 84166), (266, 84184),

Gene: Forza_167 Start: 93428, Stop: 92685, Start Num: 73

Candidate Starts for Forza_167:

(Start: 73 @93428 has 6 MA's), (Start: 87 @93401 has 1 MA's), (99, 93335), (112, 93293), (116, 93278), (122, 93260), (137, 93185), (177, 93050), (180, 93041), (184, 93032), (188, 93023), (197, 92987), (200, 92975), (203, 92966), (215, 92915), (216, 92912), (222, 92882), (224, 92876), (234, 92828), (240, 92786), (243, 92774), (250, 92747), (253, 92735),

Gene: FountainFog_44 Start: 29411, Stop: 30256, Start Num: 64

Candidate Starts for FountainFog_44:

(1, 28850), (5, 28946), (6, 28985), (10, 29015), (13, 29111), (14, 29147), (Start: 64 @29411 has 42 MA's), (85, 29465), (90, 29501), (96, 29528), (108, 29573), (109, 29576), (120, 29621), (157, 29777), (167, 29813), (170, 29822), (171, 29825), (215, 29954), (219, 29969), (241, 30074), (252, 30116),

Gene: FreddieHg_45 Start: 29385, Stop: 30230, Start Num: 64

Candidate Starts for FreddieHg_45:

(1, 28824), (5, 28920), (6, 28959), (7, 28965), (10, 28989), (13, 29085), (14, 29121), (Start: 64 @29385 has 42 MA's), (85, 29439), (90, 29475), (96, 29502), (108, 29547), (109, 29550), (120, 29595), (157, 29751), (167, 29787), (170, 29796), (171, 29799), (215, 29928), (219, 29943), (241, 30048), (252, 30090),

Gene: Fribs8_37 Start: 28362, Stop: 27550, Start Num: 46

Candidate Starts for Fribs8_37:

(Start: 46 @28362 has 56 MA's), (123, 28110), (132, 28068), (135, 28053), (139, 28035), (144, 28020), (145, 28017), (157, 27975), (171, 27927), (192, 27867), (201, 27834), (215, 27780), (219, 27765), (242, 27648),

Gene: FrostedClock_107 Start: 84680, Stop: 85489, Start Num: 76

Candidate Starts for FrostedClock_107:

(Start: 76 @84680 has 11 MA's), (103, 84785), (176, 85055), (200, 85133), (244, 85334), (252, 85364), (253, 85367), (261, 85397), (265, 85466), (266, 85484),

Gene: Fulton_34 Start: 23800, Stop: 23105, Start Num: 82

Candidate Starts for Fulton_34:

(30, 23947), (34, 23932), (Start: 82 @23800 has 57 MA's), (89, 23767), (111, 23671), (177, 23437), (207, 23338), (210, 23329), (218, 23290), (226, 23254), (238, 23203),

Gene: GMA2_61 Start: 64314, Stop: 63565, Start Num: 70

Candidate Starts for GMA2_61:

(Start: 70 @64314 has 1 MA's), (Start: 87 @64284 has 1 MA's), (96, 64227), (137, 64068), (147, 64035), (177, 63933), (184, 63915), (199, 63867), (200, 63858), (202, 63852), (215, 63798), (222, 63765), (224, 63759), (234, 63711), (254, 63612), (256, 63597),

Gene: GaeCeo_37 Start: 26192, Stop: 25527, Start Num: 78

Candidate Starts for GaeCeo_37:

(Start: 78 @26192 has 139 MA's), (134, 25979), (141, 25949), (163, 25883), (177, 25835), (207, 25760), (210, 25751), (218, 25712), (220, 25703), (229, 25661), (238, 25625),

Gene: Gallia_67 Start: 52584, Stop: 51811, Start Num: 63

Candidate Starts for Gallia_67:

(63, 52584), (85, 52527), (115, 52383), (136, 52290), (167, 52185), (193, 52125), (209, 52074), (220, 52023), (224, 52005), (225, 52002), (242, 51924),

Gene: GardenB_36 Start: 26006, Stop: 25338, Start Num: 78

Candidate Starts for GardenB_36:

(Start: 78 @26006 has 139 MA's), (113, 25871), (174, 25652), (207, 25571), (209, 25565), (217, 25529), (218, 25523), (238, 25436),

Gene: Garey24_36 Start: 25574, Stop: 24906, Start Num: 78

Candidate Starts for Garey24_36:

(Start: 78 @25574 has 139 MA's), (116, 25427), (124, 25400), (141, 25331), (144, 25319), (207, 25139), (218, 25091), (222, 25070), (238, 25004), (252, 24935),

Gene: Gargoyle_37 Start: 25915, Stop: 25247, Start Num: 78

Candidate Starts for Gargoyle_37:

(Start: 78 @25915 has 139 MA's), (116, 25768), (124, 25741), (141, 25672), (144, 25660), (207, 25480), (218, 25432), (222, 25411), (238, 25345), (252, 25276),

Gene: Gelo_36 Start: 25598, Stop: 24930, Start Num: 78

Candidate Starts for Gelo_36:

(Start: 78 @25598 has 139 MA's), (116, 25451), (124, 25424), (141, 25355), (144, 25343), (207, 25163), (218, 25115), (238, 25028), (252, 24959),

Gene: Gerri43_36 Start: 23603, Stop: 22809, Start Num: 58

Candidate Starts for Gerri43_36:

(53, 23636), (Start: 58 @23603 has 11 MA's), (93, 23489), (103, 23456), (112, 23420), (128, 23360), (129, 23357), (134, 23333), (138, 23309), (144, 23288), (147, 23279), (155, 23246), (165, 23216), (176, 23180), (200, 23102), (226, 22997), (234, 22946), (238, 22925),

Gene: Gershwin_36 Start: 25608, Stop: 24940, Start Num: 78

Candidate Starts for Gershwin_36:

(Start: 78 @25608 has 139 MA's), (116, 25461), (124, 25434), (141, 25365), (144, 25353), (207, 25173), (218, 25125), (238, 25038), (252, 24969),

Gene: GiKK_45 Start: 29557, Stop: 28754, Start Num: 46

Candidate Starts for GiKK_45:

(12, 29836), (15, 29746), (21, 29644), (27, 29614), (28, 29608), (Start: 45 @29560 has 3 MA's), (Start: 46 @29557 has 56 MA's), (Start: 87 @29458 has 1 MA's), (113, 29347), (126, 29299), (135, 29254), (139, 29236), (144, 29221), (145, 29218), (159, 29173), (168, 29137), (171, 29128), (201, 29032), (209, 29008), (216, 28975), (219, 28963), (220, 28957), (225, 28936),

Gene: Gibbous_36 Start: 27923, Stop: 27114, Start Num: 46

Candidate Starts for Gibbous_36:

(Start: 46 @27923 has 56 MA's), (Start: 87 @27821 has 1 MA's), (113, 27710), (135, 27617), (139, 27599), (144, 27584), (145, 27581), (157, 27539), (171, 27491), (192, 27431), (201, 27398), (209, 27374), (215, 27344), (219, 27329), (242, 27212),

Gene: Gibson_64 Start: 46180, Stop: 45395, Start Num: 62

Candidate Starts for Gibson_64:

(Start: 62 @46180 has 17 MA's), (85, 46126), (88, 46117), (90, 46090), (96, 46066), (109, 46018), (134, 45913), (161, 45814), (162, 45808), (173, 45769), (181, 45748), (209, 45676), (219, 45631), (220, 45625), (224, 45607), (231, 45580), (246, 45508),

Gene: Gilda_45 Start: 30168, Stop: 31013, Start Num: 64

Candidate Starts for Gilda_45:

(6, 29742), (10, 29772), (14, 29904), (Start: 64 @30168 has 42 MA's), (85, 30222), (90, 30258), (96, 30285), (108, 30330), (109, 30333), (120, 30378), (157, 30534), (167, 30570), (170, 30579), (171, 30582), (215, 30711), (219, 30726), (241, 30831), (252, 30873),

Gene: Glamour_34 Start: 25503, Stop: 24835, Start Num: 82

Candidate Starts for Glamour_34:

(56, 25581), (Start: 66 @25536 has 1 MA's), (Start: 82 @25503 has 57 MA's), (116, 25356), (124, 25329), (134, 25290), (141, 25260), (144, 25248), (207, 25068), (218, 25020), (224, 24993), (238, 24933),

Gene: GodonK_178 Start: 89500, Stop: 88790, Start Num: 74

Candidate Starts for GodonK_178:

(Start: 74 @89500 has 2 MA's), (86, 89479), (96, 89419), (137, 89263), (147, 89230), (153, 89209), (157, 89194), (165, 89167), (173, 89140), (177, 89128), (180, 89119), (190, 89095), (200, 89053), (215, 88996), (216, 88993), (221, 88972), (222, 88963), (234, 88912), (258, 88795),

Gene: GoingMerry_37 Start: 25920, Stop: 25252, Start Num: 78

Candidate Starts for GoingMerry_37:

(Start: 78 @25920 has 139 MA's), (116, 25773), (124, 25746), (141, 25677), (144, 25665), (207, 25485), (218, 25437), (222, 25416), (252, 25281),

Gene: GoldHunter_41 Start: 28608, Stop: 27790, Start Num: 46

Candidate Starts for GoldHunter_41:

(Start: 46 @28608 has 56 MA's), (97, 28452), (98, 28449), (110, 28401), (113, 28389), (132, 28311), (139, 28278), (144, 28263), (145, 28260), (157, 28218), (168, 28179), (171, 28170), (191, 28113), (209, 28050), (220, 27999), (242, 27885), (252, 27846),

Gene: Golden_34 Start: 25460, Stop: 24795, Start Num: 82

Candidate Starts for Golden_34:

(23, 25646), (44, 25574), (47, 25565), (56, 25541), (Start: 66 @25496 has 1 MA's), (67, 25493), (Start: 82 @25460 has 57 MA's), (89, 25427), (91, 25412), (113, 25325), (124, 25286), (134, 25247), (141, 25217), (167, 25130), (177, 25103), (201, 25049), (207, 25028), (210, 25019), (218, 24980), (226, 24944), (238, 24893), (240, 24872),

Gene: GoldenEssence_90 Start: 78275, Stop: 79084, Start Num: 76

Candidate Starts for GoldenEssence_90:

(Start: 76 @78275 has 11 MA's), (103, 78380), (176, 78650), (200, 78728), (252, 78959), (253, 78962), (262, 78995), (265, 79061), (266, 79079),

Gene: GoneGirl_37 Start: 25999, Stop: 25331, Start Num: 78

Candidate Starts for GoneGirl_37:

(Start: 78 @25999 has 139 MA's), (174, 25645), (207, 25564), (209, 25558), (217, 25522), (218, 25516), (238, 25429),

Gene: Gorgeous_60 Start: 40819, Stop: 40079, Start Num: 57

Candidate Starts for Gorgeous_60:

(Start: 57 @40819 has 13 MA's), (65, 40789), (Start: 73 @40765 has 6 MA's), (Start: 79 @40753 has 5 MA's), (81, 40750), (84, 40744), (92, 40702), (94, 40693), (101, 40678), (104, 40669), (131, 40570), (133, 40555), (164, 40435), (169, 40417), (183, 40378), (187, 40369), (214, 40288), (221, 40261), (233, 40216), (234, 40213), (238, 40192), (246, 40147), (250, 40132),

Gene: Greenlvy_34 Start: 24389, Stop: 23694, Start Num: 82

Candidate Starts for Greenlvy_34:

(30, 24536), (34, 24521), (Start: 82 @24389 has 57 MA's), (89, 24356), (111, 24260), (134, 24176), (177, 24026), (207, 23927), (210, 23918), (218, 23879), (226, 23843), (238, 23792),

Gene: Greenbelt_62 Start: 42280, Stop: 41495, Start Num: 62

Candidate Starts for Greenbelt_62:

(Start: 62 @42280 has 17 MA's), (85, 42226), (Start: 87 @42220 has 1 MA's), (90, 42190), (100, 42154), (173, 41869), (181, 41848), (195, 41821), (219, 41731), (220, 41725), (224, 41707), (234, 41671), (246, 41608), (253, 41581),

Gene: Greys_37 Start: 25908, Stop: 25240, Start Num: 78

Candidate Starts for Greys_37:

(Start: 78 @25908 has 139 MA's), (116, 25761), (124, 25734), (141, 25665), (144, 25653), (207, 25473), (218, 25425), (222, 25404), (238, 25338), (252, 25269),

Gene: Gubbabump_36 Start: 25588, Stop: 24920, Start Num: 78

Candidate Starts for Gubbabump_36:

(Start: 78 @25588 has 139 MA's), (116, 25441), (124, 25414), (141, 25345), (144, 25333), (207, 25153), (218, 25105), (222, 25084), (238, 25018), (252, 24949),

Gene: Guetzie_34 Start: 25445, Stop: 24780, Start Num: 82

Candidate Starts for Guetzie_34:

(23, 25631), (44, 25559), (47, 25550), (56, 25526), (Start: 66 @25481 has 1 MA's), (67, 25478), (Start: 82 @25445 has 57 MA's), (89, 25412), (113, 25310), (124, 25271), (134, 25232), (141, 25202), (167, 25115), (177, 25088), (201, 25034), (207, 25013), (210, 25004), (218, 24965), (226, 24929), (238, 24878), (240, 24857),

Gene: Hager_46 Start: 29593, Stop: 30441, Start Num: 64

Candidate Starts for Hager_46:

(7, 29173), (8, 29188), (9, 29191), (10, 29197), (Start: 64 @29593 has 42 MA's), (80, 29635), (85, 29647), (90, 29683), (96, 29710), (108, 29755), (109, 29758), (120, 29803), (157, 29959), (167, 29995), (170, 30004), (171, 30007), (183, 30040), (215, 30136), (219, 30151), (241, 30256), (252, 30298),

Gene: HairyMan_32 Start: 24804, Stop: 24130, Start Num: 82

Candidate Starts for HairyMan_32:

(24, 24984), (44, 24918), (56, 24885), (Start: 82 @24804 has 57 MA's), (116, 24648), (134, 24582), (136, 24564), (141, 24552), (144, 24540), (165, 24474), (167, 24465), (207, 24360), (218, 24312), (222, 24291), (224, 24285), (226, 24276), (229, 24261), (238, 24225),

Gene: Hamlet_36 Start: 26037, Stop: 25369, Start Num: 78

Candidate Starts for Hamlet_36:

(Start: 78 @26037 has 139 MA's), (113, 25902), (174, 25683), (207, 25602), (217, 25560), (218, 25554), (238, 25467),

Gene: HanSolo_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for HanSolo_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (238, 25025), (252, 24956),

Gene: HankSprout_37 Start: 25475, Stop: 24807, Start Num: 78

Candidate Starts for HankSprout_37:

(Start: 78 @25475 has 139 MA's), (116, 25328), (124, 25301), (141, 25232), (144, 25220), (207, 25040), (218, 24992), (222, 24971), (238, 24905), (252, 24836),

Gene: Hasitha_34 Start: 23812, Stop: 23117, Start Num: 82

Candidate Starts for Hasitha_34:

(30, 23959), (34, 23944), (Start: 82 @23812 has 57 MA's), (89, 23779), (111, 23683), (134, 23599), (177, 23449), (207, 23350), (210, 23341), (218, 23302), (226, 23266), (238, 23215),

Gene: Haunter_45 Start: 29551, Stop: 30396, Start Num: 64

Candidate Starts for Haunter_45:

(6, 29125), (10, 29155), (11, 29182), (13, 29251), (14, 29287), (Start: 64 @29551 has 42 MA's), (85, 29605), (90, 29641), (96, 29668), (108, 29713), (109, 29716), (120, 29761), (157, 29917), (167, 29953), (170, 29962), (171, 29965), (215, 30094), (219, 30109), (241, 30214), (243, 30220), (252, 30256),

Gene: HavenFinLeoSun_38 Start: 26250, Stop: 25582, Start Num: 78

Candidate Starts for HavenFinLeoSun_38:

(22, 26433), (30, 26394), (34, 26379), (Start: 78 @26250 has 139 MA's), (116, 26103), (124, 26076), (134, 26037), (141, 26007), (144, 25995), (157, 25956), (207, 25815), (218, 25767), (229, 25716), (232, 25707), (252, 25611),

Gene: HerculesXL_35 Start: 24250, Stop: 23582, Start Num: 78

Candidate Starts for HerculesXL_35:

(Start: 78 @24250 has 139 MA's), (89, 24217), (102, 24166), (116, 24103), (124, 24076), (141, 24007), (144, 23995), (198, 23848), (207, 23815), (218, 23767), (229, 23716), (238, 23680), (248, 23629),

Gene: Hexbug_47 Start: 31341, Stop: 30535, Start Num: 46

Candidate Starts for Hexbug_47:

(28, 31383), (Start: 45 @31344 has 3 MA's), (Start: 46 @31341 has 56 MA's), (Start: 87 @31239 has 1 MA's), (97, 31185), (98, 31182), (113, 31128), (123, 31092), (135, 31035), (139, 31017), (145, 30999),

(159, 30954), (171, 30909), (201, 30813), (209, 30789), (216, 30756), (219, 30744), (230, 30690), (238, 30657),

Gene: Heylee_63 Start: 40997, Stop: 40257, Start Num: 57

Candidate Starts for Heylee_63:

(Start: 57 @40997 has 13 MA's), (65, 40967), (Start: 73 @40943 has 6 MA's), (Start: 79 @40931 has 5 MA's), (81, 40928), (84, 40922), (92, 40880), (94, 40871), (101, 40856), (104, 40847), (131, 40748), (133, 40733), (164, 40613), (169, 40595), (183, 40556), (187, 40547), (214, 40466), (221, 40439), (233, 40394), (234, 40391), (238, 40370), (246, 40325), (250, 40310),

Gene: Hiddenleaf_45 Start: 29369, Stop: 30214, Start Num: 64

Candidate Starts for Hiddenleaf_45:

(1, 28808), (5, 28904), (6, 28943), (7, 28949), (10, 28973), (13, 29069), (14, 29105), (Start: 64 @29369 has 42 MA's), (85, 29423), (90, 29459), (96, 29486), (108, 29531), (109, 29534), (120, 29579), (157, 29735), (167, 29771), (170, 29780), (171, 29783), (215, 29912), (219, 29927), (241, 30032), (252, 30074),

Gene: HippoPololi_38 Start: 28375, Stop: 27566, Start Num: 46

Candidate Starts for HippoPololi_38:

(Start: 46 @28375 has 56 MA's), (Start: 87 @28273 has 1 MA's), (113, 28162), (123, 28126), (127, 28108), (132, 28084), (135, 28069), (139, 28051), (145, 28033), (157, 27991), (171, 27943), (183, 27910), (192, 27883), (201, 27850), (219, 27781), (242, 27664),

Gene: Horseradish_42 Start: 28614, Stop: 27796, Start Num: 46

Candidate Starts for Horseradish_42:

(Start: 41 @28632 has 3 MA's), (Start: 46 @28614 has 56 MA's), (Start: 49 @28608 has 1 MA's), (97, 28458), (98, 28455), (113, 28395), (132, 28317), (139, 28284), (145, 28266), (157, 28224), (159, 28221), (168, 28185), (171, 28176), (191, 28119), (201, 28080), (213, 28035), (216, 28023), (219, 28011), (220, 28005), (252, 27852),

Gene: HungryHenry_36 Start: 25600, Stop: 24932, Start Num: 78

Candidate Starts for HungryHenry_36:

(Start: 78 @25600 has 139 MA's), (116, 25453), (124, 25426), (141, 25357), (144, 25345), (207, 25165), (218, 25117), (222, 25096), (238, 25030), (252, 24961),

Gene: Huwburt_81 Start: 49790, Stop: 50599, Start Num: 55

Candidate Starts for Huwburt_81:

(Start: 55 @49790 has 3 MA's), (102, 49937), (108, 49967), (113, 49988), (139, 50099), (145, 50117), (157, 50159), (159, 50162), (168, 50198), (181, 50234), (191, 50264), (192, 50267), (216, 50360), (220, 50378),

Gene: Ichor_60 Start: 41212, Stop: 40472, Start Num: 57

Candidate Starts for Ichor_60:

(Start: 57 @41212 has 13 MA's), (65, 41182), (Start: 73 @41158 has 6 MA's), (Start: 79 @41146 has 5 MA's), (81, 41143), (84, 41137), (92, 41095), (94, 41086), (101, 41071), (104, 41062), (131, 40963), (133, 40948), (164, 40828), (169, 40810), (183, 40771), (187, 40762), (214, 40681), (221, 40654), (233, 40609), (234, 40606), (238, 40585), (246, 40540), (250, 40525),

Gene: Ilzat_36 Start: 25611, Stop: 24943, Start Num: 78

Candidate Starts for Ilzat_36:

(Start: 78 @25611 has 139 MA's), (116, 25464), (124, 25437), (141, 25368), (144, 25356), (207, 25176), (218, 25128), (222, 25107), (238, 25041), (252, 24972),

Gene: Inventa_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Inventa_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (238, 25336), (252, 25267),

Gene: Ioannes_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for Ioannes_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (238, 25340), (252, 25271),

Gene: Ixel_35 Start: 24233, Stop: 23535, Start Num: 79

Candidate Starts for Ixel_35:

(Start: 79 @24233 has 5 MA's), (102, 24149), (113, 24098), (116, 24086), (124, 24059), (141, 23984), (142, 23981), (144, 23972), (164, 23909), (177, 23867), (187, 23843), (207, 23768), (208, 23765), (210, 23759), (217, 23726), (218, 23720), (226, 23684), (248, 23582),

Gene: JDawG_44 Start: 29786, Stop: 30631, Start Num: 64

Candidate Starts for JDawG_44:

(1, 29225), (5, 29321), (6, 29360), (13, 29486), (14, 29522), (Start: 64 @29786 has 42 MA's), (85, 29840), (90, 29876), (96, 29903), (108, 29948), (109, 29951), (120, 29996), (157, 30152), (167, 30188), (170, 30197), (171, 30200), (215, 30329), (219, 30344), (241, 30449), (252, 30491),

Gene: JacoRen57_38 Start: 31703, Stop: 30873, Start Num: 39

Candidate Starts for JacoRen57_38:

(Start: 39 @31703 has 1 MA's), (Start: 87 @31568 has 1 MA's), (126, 31403), (139, 31340), (144, 31325), (167, 31244), (171, 31232), (209, 31112), (220, 31061), (225, 31040), (250, 30914), (253, 30902),

Gene: Jaek_60 Start: 41212, Stop: 40472, Start Num: 57

Candidate Starts for Jaek_60:

(Start: 57 @41212 has 13 MA's), (65, 41182), (Start: 73 @41158 has 6 MA's), (Start: 79 @41146 has 5 MA's), (81, 41143), (84, 41137), (92, 41095), (94, 41086), (101, 41071), (104, 41062), (131, 40963), (133, 40948), (164, 40828), (169, 40810), (183, 40771), (187, 40762), (214, 40681), (221, 40654), (233, 40609), (234, 40606), (238, 40585), (246, 40540), (250, 40525),

Gene: Jamzy_45 Start: 29543, Stop: 28737, Start Num: 45

Candidate Starts for Jamzy_45:

(21, 29627), (27, 29597), (28, 29591), (Start: 45 @29543 has 3 MA's), (Start: 46 @29540 has 56 MA's), (Start: 87 @29441 has 1 MA's), (113, 29330), (126, 29282), (135, 29237), (139, 29219), (144, 29204), (145, 29201), (159, 29156), (168, 29120), (171, 29111), (201, 29015), (209, 28991), (216, 28958), (219, 28946), (220, 28940), (225, 28919),

Gene: Janus167_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for Janus167_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (238, 25025), (252, 24956),

Gene: JasonD_39 Start: 26455, Stop: 25787, Start Num: 78

Candidate Starts for JasonD_39:

(Start: 78 @26455 has 139 MA's), (116, 26308), (124, 26281), (134, 26242), (141, 26212), (144, 26200), (157, 26161), (207, 26020), (218, 25972), (220, 25963), (229, 25921), (232, 25912), (238, 25885), (252, 25816),

Gene: JasperRussell_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for JasperRussell_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (238, 25025), (252, 24956),

Gene: Jemerald_37 Start: 26163, Stop: 25489, Start Num: 79

Candidate Starts for Jemerald_37:

(Start: 79 @26163 has 5 MA's), (102, 26079), (124, 25989), (134, 25944), (136, 25926), (144, 25902), (157, 25863), (165, 25836), (187, 25773), (198, 25755), (207, 25722), (218, 25674), (220, 25665), (226, 25638), (229, 25623), (232, 25614), (238, 25587),

Gene: Jenos_40 Start: 27104, Stop: 26436, Start Num: 78

Candidate Starts for Jenos_40:

(22, 27287), (30, 27248), (34, 27233), (Start: 78 @27104 has 139 MA's), (118, 26951), (124, 26930), (133, 26894), (141, 26861), (144, 26849), (157, 26810), (207, 26669), (210, 26660), (218, 26621), (220, 26612), (229, 26570), (238, 26534), (252, 26465),

Gene: Jerbirus_37 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for Jerbirus_37:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (238, 25025), (252, 24956),

Gene: JeriBeth_36 Start: 25458, Stop: 24790, Start Num: 78

Candidate Starts for JeriBeth_36:

(Start: 78 @25458 has 139 MA's), (116, 25311), (124, 25284), (141, 25215), (144, 25203), (207, 25023), (218, 24975), (222, 24954), (238, 24888), (252, 24819),

Gene: JingleBells_45 Start: 29520, Stop: 30365, Start Num: 64

Candidate Starts for JingleBells_45:

(6, 29094), (7, 29100), (10, 29124), (13, 29220), (14, 29256), (Start: 64 @29520 has 42 MA's), (85, 29574), (90, 29610), (96, 29637), (108, 29682), (109, 29685), (120, 29730), (157, 29886), (167, 29922), (170, 29931), (171, 29934), (215, 30063), (219, 30078), (241, 30183), (252, 30225),

Gene: Jingles_34 Start: 25362, Stop: 24697, Start Num: 82

Candidate Starts for Jingles_34:

(44, 25476), (56, 25443), (67, 25395), (Start: 82 @25362 has 57 MA's), (113, 25227), (124, 25188), (141, 25119), (177, 25005), (201, 24951), (207, 24930), (210, 24921), (218, 24882), (220, 24873), (226, 24846), (238, 24795), (240, 24774),

Gene: Juanyo_34 Start: 25282, Stop: 24611, Start Num: 82

Candidate Starts for Juanyo_34:

(51, 25366), (61, 25321), (Start: 82 @25282 has 57 MA's), (111, 25153), (124, 25108), (139, 25042), (167, 24946), (177, 24919), (178, 24916), (207, 24844), (210, 24835), (218, 24796), (238, 24709),

Gene: Juicer_37 Start: 26163, Stop: 25489, Start Num: 79

Candidate Starts for Juicer_37:

(Start: 79 @26163 has 5 MA's), (102, 26079), (124, 25989), (134, 25944), (136, 25926), (144, 25902), (157, 25863), (165, 25836), (187, 25773), (198, 25755), (207, 25722), (218, 25674), (220, 25665), (226, 25638), (229, 25623), (232, 25614), (238, 25587),

Gene: KSunshine22_98 Start: 81330, Stop: 82055, Start Num: 99

Candidate Starts for KSunshine22_98:

(Start: 76 @81237 has 11 MA's), (Start: 87 @81264 has 1 MA's), (96, 81321), (99, 81330), (102, 81336), (176, 81612), (196, 81675), (200, 81690), (222, 81780), (231, 81825), (245, 81894), (252, 81921), (265, 82032),

Gene: Kale_36 Start: 25610, Stop: 24942, Start Num: 78

Candidate Starts for Kale_36:

(Start: 78 @25610 has 139 MA's), (116, 25463), (124, 25436), (141, 25367), (144, 25355), (207, 25175), (218, 25127), (238, 25040), (252, 24971),

Gene: KannH_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for KannH_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (238, 25025), (252, 24956),

Gene: Karate_44 Start: 30169, Stop: 31014, Start Num: 64

Candidate Starts for Karate_44:

(5, 29704), (6, 29743), (10, 29773), (14, 29905), (Start: 64 @30169 has 42 MA's), (85, 30223), (90, 30259), (96, 30286), (108, 30331), (109, 30334), (120, 30379), (157, 30535), (167, 30571), (170, 30580), (171, 30583), (215, 30712), (219, 30727), (241, 30832), (252, 30874),

Gene: KatChan_36 Start: 25012, Stop: 24341, Start Num: 82

Candidate Starts for KatChan_36:

(Start: 39 @25126 has 1 MA's), (51, 25093), (61, 25048), (Start: 82 @25012 has 57 MA's), (89, 24979), (111, 24883), (124, 24838), (129, 24823), (167, 24676), (175, 24655), (206, 24577), (207, 24574), (210, 24565), (216, 24535), (218, 24526), (226, 24490), (238, 24439), (252, 24370),

Gene: Kate_46 Start: 30176, Stop: 31024, Start Num: 64

Candidate Starts for Kate_46:

(6, 29750), (10, 29780), (14, 29912), (Start: 64 @30176 has 42 MA's), (85, 30230), (90, 30266), (96, 30293), (108, 30338), (109, 30341), (120, 30386), (157, 30542), (167, 30578), (170, 30587), (171, 30590), (215, 30719), (219, 30734), (241, 30839), (252, 30881),

Gene: Kauala_34 Start: 25348, Stop: 24683, Start Num: 82

Candidate Starts for Kauala_34:

(23, 25531), (44, 25462), (56, 25429), (67, 25381), (Start: 82 @25348 has 57 MA's), (113, 25213), (139, 25108), (141, 25105), (201, 24937), (207, 24916), (210, 24907), (217, 24874), (218, 24868), (226, 24832), (238, 24781), (240, 24760),

Gene: Kavo_34 Start: 24088, Stop: 23420, Start Num: 78

Candidate Starts for Kavo_34:

(Start: 78 @24088 has 139 MA's), (89, 24055), (102, 24004), (116, 23941), (124, 23914), (141, 23845), (144, 23833), (198, 23686), (207, 23653), (218, 23605), (229, 23554), (238, 23518), (248, 23467),

Gene: KayGee_43 Start: 30579, Stop: 29773, Start Num: 46

Candidate Starts for KayGee_43:

(Start: 46 @30579 has 56 MA's), (Start: 49 @30573 has 1 MA's), (Start: 87 @30471 has 1 MA's), (97, 30417), (113, 30354), (123, 30318), (139, 30243), (144, 30228), (157, 30183), (159, 30180), (168, 30144), (171, 30135), (191, 30078), (204, 30030), (205, 30027), (216, 29985), (238, 29892), (252, 29823),

Gene: KellyGreen_37 Start: 25589, Stop: 24921, Start Num: 78

Candidate Starts for KellyGreen_37:

(Start: 78 @25589 has 139 MA's), (116, 25442), (124, 25415), (141, 25346), (144, 25334), (207, 25154), (218, 25106), (222, 25085), (238, 25019), (252, 24950),

Gene: KimJongPhill_83 Start: 61930, Stop: 62745, Start Num: 50

Candidate Starts for KimJongPhill_83:

(Start: 50 @61930 has 2 MA's), (80, 62008), (100, 62086), (132, 62212), (134, 62218), (139, 62245), (145, 62263), (157, 62305), (172, 62356), (183, 62386), (191, 62410), (207, 62467), (218, 62515), (220, 62524), (236, 62620), (247, 62683),

Gene: Kimchi1738_53 Start: 45055, Stop: 44291, Start Num: 62

Candidate Starts for Kimchi1738_53:

(Start: 62 @45055 has 17 MA's), (120, 44836), (206, 44554), (219, 44500), (230, 44455), (249, 44371),

Gene: KingJulien_36 Start: 26027, Stop: 25359, Start Num: 78

Candidate Starts for KingJulien_36:

(Start: 78 @26027 has 139 MA's), (113, 25892), (174, 25673), (207, 25592), (217, 25550), (218, 25544), (238, 25457),

Gene: Klimt_36 Start: 25590, Stop: 24922, Start Num: 78

Candidate Starts for Klimt_36:

(Start: 78 @25590 has 139 MA's), (116, 25443), (124, 25416), (141, 25347), (144, 25335), (207, 25155), (218, 25107), (238, 25020), (252, 24951),

Gene: Knox_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for Knox_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (252, 25271),

Gene: Koji_34 Start: 25541, Stop: 24876, Start Num: 82

Candidate Starts for Koji_34:

(23, 25724), (44, 25655), (56, 25622), (67, 25574), (Start: 82 @25541 has 57 MA's), (113, 25406), (124, 25367), (141, 25298), (177, 25184), (201, 25130), (207, 25109), (210, 25100), (218, 25061), (220, 25052), (226, 25025), (238, 24974), (240, 24953),

Gene: Kors_49 Start: 31190, Stop: 32032, Start Num: 64

Candidate Starts for Kors_49:

(Start: 64 @31190 has 42 MA's), (Start: 87 @31253 has 1 MA's), (105, 31337), (108, 31349), (109, 31352), (146, 31514), (167, 31586), (194, 31649), (198, 31658), (215, 31727), (219, 31742), (252, 31889),

Gene: Kouch_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for Kouch_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (238, 25025), (252, 24956),

Gene: Krampus_45 Start: 30176, Stop: 31024, Start Num: 64

Candidate Starts for Krampus_45:

(6, 29750), (10, 29780), (14, 29912), (Start: 64 @30176 has 42 MA's), (85, 30230), (90, 30266), (96, 30293), (108, 30338), (109, 30341), (120, 30386), (157, 30542), (167, 30578), (170, 30587), (171, 30590), (215, 30719), (219, 30734), (241, 30839), (252, 30881),

Gene: Kurt1_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Kurt1_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (238, 25336), (252, 25267),

Gene: LastNadiia_38 Start: 25948, Stop: 25163, Start Num: 58

Candidate Starts for LastNadiia_38:

(48, 25999), (53, 25981), (Start: 58 @25948 has 11 MA's), (93, 25840), (99, 25819), (103, 25807), (112, 25771), (128, 25711), (134, 25684), (147, 25630), (155, 25597), (165, 25567), (176, 25531), (199, 25462), (200, 25453), (220, 25375), (224, 25357), (234, 25297), (238, 25276),

Gene: Lauer_38 Start: 31388, Stop: 30582, Start Num: 46

Candidate Starts for Lauer_38:

(Start: 46 @31388 has 56 MA's), (Start: 49 @31382 has 1 MA's), (Start: 87 @31280 has 1 MA's), (97, 31226), (113, 31163), (123, 31127), (139, 31052), (144, 31037), (157, 30992), (159, 30989), (168, 30953), (171, 30944), (191, 30887), (204, 30839), (205, 30836), (216, 30794), (238, 30701), (252, 30632),

Gene: Laure_108 Start: 77202, Stop: 78011, Start Num: 76

Candidate Starts for Laure_108:

(Start: 76 @77202 has 11 MA's), (Start: 87 @77229 has 1 MA's), (176, 77577), (197, 77640), (200, 77652), (219, 77724), (245, 77859), (252, 77886), (253, 77889), (264, 77970), (265, 77988),

Gene: Leafus_36 Start: 26172, Stop: 25504, Start Num: 78

Candidate Starts for Leafus_36:

(Start: 78 @26172 has 139 MA's), (113, 26037), (174, 25818), (207, 25737), (217, 25695), (218, 25689), (238, 25602),

Gene: LeoJr_103 Start: 84544, Stop: 85377, Start Num: 76

Candidate Starts for LeoJr_103:

(Start: 76 @84544 has 11 MA's), (96, 84628), (99, 84637), (102, 84643), (131, 84748), (176, 84919), (200, 84997), (222, 85087), (229, 85129), (245, 85204), (251, 85225), (252, 85231),

Gene: Librie_34 Start: 23799, Stop: 23104, Start Num: 82

Candidate Starts for Librie_34:

(30, 23946), (34, 23931), (Start: 82 @23799 has 57 MA's), (89, 23766), (111, 23670), (177, 23436), (207, 23337), (210, 23328), (218, 23289), (226, 23253), (238, 23202),

Gene: LilTerminator_34 Start: 23821, Stop: 23126, Start Num: 82

Candidate Starts for LilTerminator_34:

(30, 23968), (34, 23953), (Start: 82 @23821 has 57 MA's), (89, 23788), (111, 23692), (134, 23608), (177, 23458), (207, 23359), (210, 23350), (218, 23311), (226, 23275), (238, 23224),

Gene: Lizz_64 Start: 46003, Stop: 45221, Start Num: 62

Candidate Starts for Lizz_64:

(Start: 62 @46003 has 17 MA's), (85, 45949), (88, 45940), (90, 45913), (96, 45889), (109, 45841), (134, 45736), (161, 45637), (162, 45631), (173, 45592), (181, 45571), (209, 45499), (219, 45454), (220, 45448), (224, 45430), (234, 45394), (246, 45331),

Gene: LongHai_43 Start: 31234, Stop: 30389, Start Num: 33

Candidate Starts for LongHai_43:

(Start: 33 @31234 has 2 MA's), (Start: 46 @31210 has 56 MA's), (Start: 79 @31117 has 5 MA's), (92, 31057), (113, 30979), (120, 30952), (139, 30868), (171, 30760), (181, 30733), (212, 30631), (219, 30595), (225, 30568), (237, 30505), (253, 30430), (255, 30421),

Gene: LordBart_49 Start: 31099, Stop: 31941, Start Num: 64

Candidate Starts for LordBart_49:

(Start: 64 @31099 has 42 MA's), (Start: 87 @31162 has 1 MA's), (105, 31246), (108, 31258), (109, 31261), (146, 31423), (157, 31459), (167, 31495), (194, 31558), (198, 31567), (215, 31636), (219, 31651), (252, 31798),

Gene: Lovelyunicorn_37 Start: 25911, Stop: 25243, Start Num: 78

Candidate Starts for Lovelyunicorn_37:

(Start: 78 @25911 has 139 MA's), (116, 25764), (124, 25737), (141, 25668), (144, 25656), (207, 25476), (218, 25428), (222, 25407), (252, 25272),

Gene: Lucky3_34 Start: 25460, Stop: 24795, Start Num: 82

Candidate Starts for Lucky3_34:

(23, 25646), (44, 25574), (47, 25565), (56, 25541), (Start: 66 @25496 has 1 MA's), (67, 25493), (Start: 82 @25460 has 57 MA's), (89, 25427), (91, 25412), (113, 25325), (124, 25286), (134, 25247), (141, 25217), (167, 25130), (177, 25103), (201, 25049), (207, 25028), (210, 25019), (218, 24980), (226, 24944), (238, 24893), (240, 24872),

Gene: Ludgate_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Ludgate_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (238, 25336), (252, 25267),

Gene: Luna18_36 Start: 25012, Stop: 24341, Start Num: 82

Candidate Starts for Luna18_36:

(Start: 39 @25126 has 1 MA's), (51, 25093), (61, 25048), (Start: 82 @25012 has 57 MA's), (89, 24979), (111, 24883), (124, 24838), (129, 24823), (167, 24676), (175, 24655), (206, 24577), (207, 24574), (210, 24565), (216, 24535), (218, 24526), (226, 24490), (238, 24439), (252, 24370),

Gene: MAnor_43 Start: 30921, Stop: 30115, Start Num: 46

Candidate Starts for MAnor_43:

(Start: 46 @30921 has 56 MA's), (Start: 49 @30915 has 1 MA's), (Start: 87 @30813 has 1 MA's), (97, 30759), (113, 30696), (139, 30585), (144, 30570), (157, 30525), (159, 30522), (168, 30486), (171, 30477), (191, 30420), (204, 30372), (205, 30369), (216, 30327), (238, 30234), (252, 30165),

Gene: MCubed_35 Start: 25528, Stop: 24860, Start Num: 82

Candidate Starts for MCubed_35:

(56, 25606), (Start: 66 @25561 has 1 MA's), (Start: 82 @25528 has 57 MA's), (116, 25381), (124, 25354), (134, 25315), (141, 25285), (144, 25273), (207, 25093), (218, 25045), (224, 25018), (238, 24958),

Gene: MScarn_43 Start: 28754, Stop: 27936, Start Num: 46

Candidate Starts for MScarn_43:

(Start: 41 @28772 has 3 MA's), (Start: 46 @28754 has 56 MA's), (Start: 49 @28748 has 1 MA's), (97, 28598), (98, 28595), (113, 28535), (132, 28457), (139, 28424), (145, 28406), (157, 28364), (159, 28361), (168, 28325), (171, 28316), (191, 28259), (201, 28220), (213, 28175), (219, 28151), (220, 28145), (252, 27992),

Gene: MaVan_38 Start: 28664, Stop: 27852, Start Num: 46

Candidate Starts for MaVan_38:

(25, 28736), (Start: 46 @28664 has 56 MA's), (113, 28448), (123, 28412), (132, 28370), (135, 28355), (139, 28337), (144, 28322), (145, 28319), (157, 28277), (171, 28229), (192, 28169), (201, 28136), (215, 28082), (219, 28067), (242, 27950),

Gene: Maco6_40 Start: 30176, Stop: 29331, Start Num: 33

Candidate Starts for Maco6_40:

(Start: 33 @30176 has 2 MA's), (Start: 46 @30152 has 56 MA's), (Start: 79 @30059 has 5 MA's), (92, 29999), (113, 29921), (120, 29894), (132, 29843), (139, 29810), (167, 29714), (171, 29702), (181, 29675), (212, 29573), (219, 29537), (225, 29510), (237, 29447), (253, 29372), (255, 29363),

Gene: MaeLinda_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for MaeLinda_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (252, 25271),

Gene: Makima_36 Start: 25073, Stop: 24285, Start Num: 58

Candidate Starts for Makima_36:

(31, 25163), (38, 25148), (53, 25106), (Start: 58 @25073 has 11 MA's), (68, 25046), (93, 24962), (98, 24944), (103, 24929), (122, 24860), (128, 24833), (134, 24806), (138, 24782), (147, 24752), (155, 24719), (165, 24689), (176, 24653), (200, 24575), (224, 24479), (234, 24419),

Gene: Malvina_39 Start: 28373, Stop: 27564, Start Num: 46

Candidate Starts for Malvina_39:

(Start: 46 @28373 has 56 MA's), (Start: 87 @28271 has 1 MA's), (113, 28160), (127, 28106), (132, 28082), (135, 28067), (139, 28049), (145, 28031), (157, 27989), (171, 27941), (192, 27881), (201, 27848), (219, 27779), (242, 27662),

Gene: ManRay_36 Start: 25608, Stop: 24940, Start Num: 78

Candidate Starts for ManRay_36:

(Start: 78 @25608 has 139 MA's), (116, 25461), (124, 25434), (141, 25365), (144, 25353), (207, 25173), (218, 25125), (222, 25104), (238, 25038), (252, 24969),

Gene: Mandalorian_33 Start: 25211, Stop: 24540, Start Num: 82

Candidate Starts for Mandalorian_33:

(Start: 39 @25328 has 1 MA's), (51, 25295), (61, 25250), (Start: 82 @25211 has 57 MA's), (111, 25082), (124, 25037), (167, 24875), (177, 24848), (178, 24845), (207, 24773), (210, 24764), (218, 24725), (229, 24674), (238, 24638), (246, 24593), (252, 24569),

Gene: Mareelih_164 Start: 92946, Stop: 92203, Start Num: 73

Candidate Starts for Mareelih_164:

(Start: 73 @92946 has 6 MA's), (Start: 87 @92919 has 1 MA's), (99, 92853), (112, 92811), (116, 92796), (122, 92778), (137, 92703), (177, 92568), (180, 92559), (184, 92550), (188, 92541), (197, 92505), (200, 92493), (203, 92484), (215, 92433), (216, 92430), (222, 92400), (224, 92394), (234, 92346), (240, 92304), (243, 92292), (250, 92265), (253, 92253),

Gene: Margaret_46 Start: 30292, Stop: 29483, Start Num: 45

Candidate Starts for Margaret_46:

(Start: 45 @30292 has 3 MA's), (Start: 46 @30289 has 56 MA's), (Start: 87 @30187 has 1 MA's), (97, 30133), (113, 30076), (123, 30040), (135, 29983), (139, 29965), (144, 29950), (145, 29947), (159, 29902), (168, 29866), (171, 29857), (201, 29761), (216, 29704), (230, 29638), (238, 29605),

Gene: Martin_38 Start: 25915, Stop: 25247, Start Num: 78

Candidate Starts for Martin_38:

(Start: 78 @25915 has 139 MA's), (116, 25768), (124, 25741), (141, 25672), (144, 25660), (207, 25480), (218, 25432), (222, 25411), (238, 25345), (252, 25276),

Gene: Mayweather_45 Start: 31200, Stop: 30394, Start Num: 46

Candidate Starts for Mayweather_45:

(Start: 46 @31200 has 56 MA's), (Start: 49 @31194 has 1 MA's), (Start: 87 @31092 has 1 MA's), (97, 31038), (113, 30975), (139, 30864), (144, 30849), (157, 30804), (159, 30801), (168, 30765), (171, 30756), (191, 30699), (204, 30651), (205, 30648), (216, 30606), (238, 30513), (252, 30444),

Gene: McDazzle_43 Start: 30530, Stop: 29724, Start Num: 46

Candidate Starts for McDazzle_43:

(Start: 46 @30530 has 56 MA's), (Start: 87 @30422 has 1 MA's), (97, 30368), (113, 30305), (139, 30194), (144, 30179), (157, 30134), (159, 30131), (168, 30095), (171, 30086), (191, 30029), (204, 29981), (205, 29978), (216, 29936), (238, 29843), (252, 29774),

Gene: McGalleon_39 Start: 27315, Stop: 26647, Start Num: 78

Candidate Starts for McGalleon_39:

(34, 27444), (Start: 78 @27315 has 139 MA's), (124, 27141), (133, 27105), (141, 27072), (144, 27060), (157, 27021), (207, 26880), (210, 26871), (218, 26832), (220, 26823), (229, 26781), (238, 26745), (252, 26676),

Gene: Mercedes_31 Start: 22779, Stop: 22108, Start Num: 77

Candidate Starts for Mercedes_31:

(Start: 77 @22779 has 1 MA's), (102, 22695), (106, 22674), (111, 22650), (124, 22605), (167, 22443), (175, 22422), (177, 22416), (207, 22341), (218, 22293), (222, 22272), (238, 22206), (252, 22137),

Gene: Merida02_38 Start: 25909, Stop: 25241, Start Num: 78

Candidate Starts for Merida02_38:

(Start: 78 @25909 has 139 MA's), (116, 25762), (124, 25735), (141, 25666), (144, 25654), (207, 25474), (218, 25426), (222, 25405), (252, 25270),

Gene: MillyPhilly_37 Start: 25903, Stop: 25235, Start Num: 78

Candidate Starts for MillyPhilly_37:

(Start: 78 @25903 has 139 MA's), (116, 25756), (124, 25729), (141, 25660), (144, 25648), (207, 25468), (218, 25420), (222, 25399), (238, 25333), (252, 25264),

Gene: Mimi_104 Start: 83830, Stop: 84639, Start Num: 76

Candidate Starts for Mimi_104:

(Start: 76 @83830 has 11 MA's), (103, 83935), (176, 84205), (200, 84283), (244, 84484), (252, 84514), (253, 84517), (261, 84547), (265, 84616), (266, 84634),

Gene: MiniVolent_34 Start: 25237, Stop: 24566, Start Num: 82

Candidate Starts for MiniVolent_34:

(51, 25321), (61, 25276), (Start: 82 @25237 has 57 MA's), (111, 25108), (124, 25063), (167, 24901), (177, 24874), (178, 24871), (207, 24799), (210, 24790), (218, 24751), (238, 24664),

Gene: Mireles_39 Start: 24631, Stop: 23843, Start Num: 58

Candidate Starts for Mireles_39:

(31, 24721), (32, 24718), (38, 24706), (53, 24664), (Start: 58 @24631 has 11 MA's), (68, 24604), (Start: 78 @24589 has 139 MA's), (93, 24520), (98, 24502), (103, 24487), (117, 24433), (128, 24391), (129, 24388), (134, 24364), (138, 24340), (147, 24310), (155, 24277), (165, 24247), (176, 24211), (200, 24133), (224, 24037), (234, 23977),

Gene: Molivia_62 Start: 39615, Stop: 38878, Start Num: 57

Candidate Starts for Molivia_62:

(Start: 57 @39615 has 13 MA's), (Start: 79 @39552 has 5 MA's), (81, 39549), (84, 39543), (92, 39501), (101, 39477), (119, 39411), (129, 39375), (131, 39369), (133, 39354), (164, 39234), (169, 39216), (183, 39177), (187, 39168), (208, 39117), (214, 39087), (233, 39015), (246, 38946), (250, 38931),

Gene: MonChoix_35 Start: 25920, Stop: 25252, Start Num: 78

Candidate Starts for MonChoix_35:

(Start: 78 @25920 has 139 MA's), (116, 25773), (124, 25746), (141, 25677), (144, 25665), (207, 25485), (218, 25437), (220, 25428), (224, 25410), (238, 25350), (240, 25329), (252, 25281),

Gene: Morrigan_36 Start: 25033, Stop: 24362, Start Num: 82

Candidate Starts for Morrigan_36:

(19, 25228), (Start: 39 @25147 has 1 MA's), (51, 25114), (61, 25069), (Start: 82 @25033 has 57 MA's), (89, 25000), (111, 24904), (124, 24859), (167, 24697), (175, 24676), (206, 24598), (207, 24595), (210, 24586), (216, 24556), (218, 24547), (238, 24460), (252, 24391),

Gene: MortySmith_43 Start: 29204, Stop: 30049, Start Num: 64

Candidate Starts for MortySmith_43:

(6, 28778), (10, 28808), (11, 28835), (13, 28904), (14, 28940), (Start: 64 @29204 has 42 MA's), (85, 29258), (90, 29294), (96, 29321), (108, 29366), (109, 29369), (120, 29414), (157, 29570), (167, 29606), (170, 29615), (171, 29618), (215, 29747), (219, 29762), (241, 29867), (252, 29909),

Gene: MrWorldwide_37 Start: 25913, Stop: 25245, Start Num: 78

Candidate Starts for MrWorldwide_37:

(Start: 78 @25913 has 139 MA's), (116, 25766), (124, 25739), (141, 25670), (144, 25658), (207, 25478), (218, 25430), (222, 25409), (238, 25343), (252, 25274),

Gene: Muddy_42 Start: 31408, Stop: 30563, Start Num: 33

Candidate Starts for Muddy_42:

(Start: 33 @31408 has 2 MA's), (Start: 46 @31384 has 56 MA's), (Start: 79 @31291 has 5 MA's), (92, 31231), (113, 31153), (120, 31126), (139, 31042), (171, 30934), (181, 30907), (212, 30805), (219, 30769), (225, 30742), (237, 30679), (253, 30604), (255, 30595),

Gene: MunkgeeRoachy_38 Start: 28070, Stop: 27252, Start Num: 46

Candidate Starts for MunkgeeRoachy_38:

(Start: 46 @28070 has 56 MA's), (97, 27914), (98, 27911), (110, 27863), (113, 27851), (132, 27773), (139, 27740), (144, 27725), (145, 27722), (157, 27680), (168, 27641), (171, 27632), (191, 27575), (209, 27512), (220, 27461), (242, 27347),

Gene: Nagem_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Nagem_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (238, 25336), (252, 25267),

Gene: NarutoRun_45 Start: 30144, Stop: 30992, Start Num: 64

Candidate Starts for NarutoRun_45:

(6, 29718), (10, 29748), (14, 29880), (Start: 64 @30144 has 42 MA's), (85, 30198), (90, 30234), (96, 30261), (108, 30306), (109, 30309), (120, 30354), (157, 30510), (167, 30546), (170, 30555), (171, 30558), (215, 30687), (219, 30702), (241, 30807), (252, 30849),

Gene: Nattles_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for Nattles_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (238, 25025), (252, 24956),

Gene: Nebulous_34 Start: 26810, Stop: 26115, Start Num: 82

Candidate Starts for Nebulous_34:

(34, 26939), (Start: 82 @26810 has 57 MA's), (89, 26777), (102, 26726), (111, 26681), (124, 26636), (134, 26597), (177, 26447), (207, 26348), (218, 26300), (226, 26264), (238, 26213),

Gene: Neferthena_34 Start: 25896, Stop: 25201, Start Num: 82

Candidate Starts for Neferthena_34:

(Start: 82 @25896 has 57 MA's), (111, 25767), (124, 25722), (134, 25683), (177, 25533), (187, 25509), (191, 25494), (207, 25434), (218, 25386), (226, 25350), (238, 25299), (246, 25254), (252, 25230),

Gene: Neptune_45 Start: 30144, Stop: 30992, Start Num: 64

Candidate Starts for Neptune_45:

(6, 29718), (10, 29748), (14, 29880), (Start: 64 @30144 has 42 MA's), (85, 30198), (90, 30234), (96, 30261), (108, 30306), (109, 30309), (120, 30354), (157, 30510), (167, 30546), (170, 30555), (171, 30558), (215, 30687), (219, 30702), (241, 30807), (252, 30849),

Gene: Neuville_36 Start: 23603, Stop: 22809, Start Num: 58

Candidate Starts for Neuville_36:

(53, 23636), (Start: 58 @23603 has 11 MA's), (93, 23489), (103, 23456), (112, 23420), (128, 23360), (129, 23357), (134, 23333), (138, 23309), (144, 23288), (147, 23279), (155, 23246), (165, 23216), (176, 23180), (200, 23102), (226, 22997), (234, 22946), (238, 22925),

Gene: Nibbles_37 Start: 28351, Stop: 27539, Start Num: 46

Candidate Starts for Nibbles_37:

(25, 28423), (29, 28399), (Start: 46 @28351 has 56 MA's), (113, 28135), (123, 28099), (132, 28057), (135, 28042), (139, 28024), (144, 28009), (145, 28006), (157, 27964), (171, 27916), (192, 27856), (201, 27823), (215, 27769), (219, 27754), (242, 27637),

Gene: NickSell_37 Start: 25912, Stop: 25244, Start Num: 79

Candidate Starts for NickSell_37:

(Start: 79 @25912 has 5 MA's), (116, 25765), (124, 25738), (141, 25669), (144, 25657), (207, 25477), (218, 25429), (222, 25408), (238, 25342), (252, 25273),

Gene: Nina_39 Start: 28732, Stop: 27914, Start Num: 46

Candidate Starts for Nina_39:

(Start: 46 @28732 has 56 MA's), (97, 28576), (98, 28573), (110, 28525), (113, 28513), (132, 28435), (139, 28402), (144, 28387), (145, 28384), (152, 28360), (157, 28342), (168, 28303), (171, 28294), (191, 28237), (209, 28174), (220, 28123), (242, 28009), (252, 27970),

Gene: NoShow_50 Start: 34311, Stop: 33472, Start Num: 35

Candidate Starts for NoShow_50:

(Start: 35 @34311 has 1 MA's), (92, 34125), (102, 34098), (132, 33969), (139, 33936), (171, 33828), (209, 33708), (220, 33657), (236, 33585), (252, 33501),

Gene: Nodigi_47 Start: 31327, Stop: 30521, Start Num: 46

Candidate Starts for Nodigi_47:

(28, 31369), (Start: 45 @31330 has 3 MA's), (Start: 46 @31327 has 56 MA's), (Start: 87 @31225 has 1 MA's), (97, 31171), (98, 31168), (113, 31114), (123, 31078), (135, 31021), (139, 31003), (145, 30985), (159, 30940), (171, 30895), (201, 30799), (209, 30775), (216, 30742), (219, 30730), (230, 30676), (238, 30643),

Gene: Nonagon_62 Start: 41552, Stop: 40740, Start Num: 43

Candidate Starts for Nonagon_62:

(26, 41603), (Start: 43 @41552 has 2 MA's), (52, 41528), (Start: 57 @41507 has 13 MA's), (59, 41489), (72, 41453), (121, 41270), (137, 41198), (138, 41195), (149, 41162), (165, 41102), (195, 41027), (254, 40784),

Gene: Nucci_33 Start: 25206, Stop: 24535, Start Num: 82

Candidate Starts for Nucci_33:

(Start: 39 @25323 has 1 MA's), (51, 25290), (61, 25245), (Start: 82 @25206 has 57 MA's), (111, 25077), (124, 25032), (167, 24870), (177, 24843), (178, 24840), (207, 24768), (210, 24759), (218, 24720), (229, 24669), (238, 24633), (246, 24588), (252, 24564),

Gene: Oats_36 Start: 25608, Stop: 24940, Start Num: 78

Candidate Starts for Oats_36:

(Start: 78 @25608 has 139 MA's), (116, 25461), (124, 25434), (141, 25365), (144, 25353), (207, 25173), (218, 25125), (222, 25104), (238, 25038), (252, 24969),

Gene: OhDear_45 Start: 30142, Stop: 30990, Start Num: 64

Candidate Starts for OhDear_45:

(6, 29716), (10, 29746), (14, 29878), (Start: 64 @30142 has 42 MA's), (85, 30196), (90, 30232), (96, 30259), (108, 30304), (109, 30307), (120, 30352), (157, 30508), (167, 30544), (170, 30553), (171, 30556), (215, 30685), (219, 30700), (241, 30805), (252, 30847),

Gene: OldNelly_37 Start: 25912, Stop: 25244, Start Num: 78

Candidate Starts for OldNelly_37:

(Start: 78 @25912 has 139 MA's), (116, 25765), (124, 25738), (141, 25669), (144, 25657), (207, 25477), (218, 25429), (222, 25408), (252, 25273),

Gene: Orla_47 Start: 31300, Stop: 30494, Start Num: 46

Candidate Starts for Orla_47:

(28, 31342), (Start: 45 @31303 has 3 MA's), (Start: 46 @31300 has 56 MA's), (Start: 87 @31198 has 1 MA's), (97, 31144), (98, 31141), (113, 31087), (123, 31051), (135, 30994), (139, 30976), (145, 30958), (168, 30877), (171, 30868), (201, 30772), (209, 30748), (216, 30715), (219, 30703), (230, 30649), (238, 30616),

Gene: OverHedge_45 Start: 30134, Stop: 30982, Start Num: 64

Candidate Starts for OverHedge_45:

(6, 29708), (10, 29738), (14, 29870), (Start: 64 @30134 has 42 MA's), (85, 30188), (90, 30224), (96, 30251), (108, 30296), (109, 30299), (120, 30344), (157, 30500), (167, 30536), (170, 30545), (171, 30548), (215, 30677), (219, 30692), (241, 30797), (252, 30839),

Gene: Oxtober96_37 Start: 25911, Stop: 25243, Start Num: 78

Candidate Starts for Oxtober96_37:

(Start: 78 @25911 has 139 MA's), (116, 25764), (124, 25737), (141, 25668), (144, 25656), (207, 25476), (218, 25428), (222, 25407), (252, 25272),

Gene: P1201_70 Start: 52915, Stop: 52136, Start Num: 63

Candidate Starts for P1201_70:

(63, 52915), (85, 52858), (86, 52855), (124, 52684), (136, 52621), (193, 52456), (209, 52405), (219, 52360), (220, 52354), (224, 52336),

Gene: PHTown_64 Start: 46001, Stop: 45219, Start Num: 62

Candidate Starts for PHTown_64:

(Start: 62 @46001 has 17 MA's), (85, 45947), (88, 45938), (90, 45911), (96, 45887), (109, 45839), (134, 45734), (161, 45635), (162, 45629), (173, 45590), (181, 45569), (209, 45497), (219, 45452), (220, 45446), (224, 45428), (234, 45392), (246, 45329),

Gene: PSirce_35 Start: 25515, Stop: 24847, Start Num: 82

Candidate Starts for PSirce_35:

(56, 25593), (Start: 66 @25548 has 1 MA's), (Start: 82 @25515 has 57 MA's), (116, 25368), (124, 25341), (134, 25302), (141, 25272), (144, 25260), (207, 25080), (218, 25032), (224, 25005), (238, 24945),

Gene: Pajaza_33 Start: 24761, Stop: 24096, Start Num: 82

Candidate Starts for Pajaza_33:

(30, 24908), (34, 24893), (Start: 82 @24761 has 57 MA's), (107, 24653), (129, 24572), (177, 24404), (185, 24386), (187, 24380), (212, 24314), (218, 24281), (220, 24272), (222, 24260), (238, 24194),

Gene: Panchaali_95 Start: 81223, Stop: 82020, Start Num: 87

Candidate Starts for Panchaali_95:

(Start: 76 @81196 has 11 MA's), (Start: 87 @81223 has 1 MA's), (96, 81280), (99, 81289), (102, 81295), (176, 81571), (200, 81649), (222, 81739), (231, 81784), (245, 81853), (252, 81880), (265, 81997),

Gene: Papafritta_36 Start: 25616, Stop: 24948, Start Num: 78

Candidate Starts for Papafritta_36:

(Start: 78 @25616 has 139 MA's), (116, 25469), (124, 25442), (141, 25373), (144, 25361), (207, 25181), (218, 25133), (222, 25112), (238, 25046), (252, 24977),

Gene: ParleG_37 Start: 25913, Stop: 25245, Start Num: 78

Candidate Starts for ParleG_37:

(Start: 78 @25913 has 139 MA's), (116, 25766), (124, 25739), (141, 25670), (144, 25658), (207, 25478), (218, 25430), (222, 25409), (238, 25343), (252, 25274),

Gene: Patbob_103 Start: 84565, Stop: 85374, Start Num: 76

Candidate Starts for Patbob_103:

(Start: 76 @84565 has 11 MA's), (103, 84670), (176, 84940), (200, 85018), (252, 85249), (253, 85252), (261, 85282), (262, 85285), (265, 85351), (266, 85369),

Gene: PauloDiaboli_112 Start: 75754, Stop: 74960, Start Num: 78

Candidate Starts for PauloDiaboli_112:

(Start: 78 @75754 has 139 MA's), (83, 75742), (92, 75691), (113, 75619), (116, 75607), (128, 75562), (129, 75559), (166, 75412), (176, 75382), (197, 75316), (200, 75304), (203, 75295), (214, 75247), (234, 75151), (252, 75055), (257, 75025), (263, 75004),

Gene: Peep_37 Start: 25898, Stop: 25230, Start Num: 78

Candidate Starts for Peep_37:

(Start: 78 @25898 has 139 MA's), (116, 25751), (124, 25724), (141, 25655), (144, 25643), (207, 25463), (218, 25415), (222, 25394), (252, 25259),

Gene: Penta_33 Start: 23944, Stop: 23276, Start Num: 78

Candidate Starts for Penta_33:

(Start: 78 @23944 has 139 MA's), (89, 23911), (102, 23860), (116, 23797), (124, 23770), (141, 23701), (144, 23689), (198, 23542), (207, 23509), (218, 23461), (229, 23410), (238, 23374), (248, 23323),

Gene: Peppino_36 Start: 26020, Stop: 25352, Start Num: 78

Candidate Starts for Peppino_36:

(Start: 78 @26020 has 139 MA's), (113, 25885), (174, 25666), (207, 25585), (217, 25543), (218, 25537), (238, 25450),

Gene: PeteyPab_53 Start: 45339, Stop: 44575, Start Num: 62

Candidate Starts for PeteyPab_53:

(Start: 62 @45339 has 17 MA's), (120, 45120), (136, 45045), (206, 44838), (219, 44784), (230, 44739), (249, 44655),

Gene: Phanita_35 Start: 25495, Stop: 24827, Start Num: 82

Candidate Starts for Phanita_35:

(56, 25573), (Start: 66 @25528 has 1 MA's), (Start: 82 @25495 has 57 MA's), (116, 25348), (124, 25321), (134, 25282), (141, 25252), (144, 25240), (207, 25060), (218, 25012), (224, 24985), (238, 24925),

Gene: Pharpay_45 Start: 30189, Stop: 31037, Start Num: 64

Candidate Starts for Pharpay_45:

(6, 29763), (10, 29793), (14, 29925), (Start: 64 @30189 has 42 MA's), (85, 30243), (90, 30279), (96, 30306), (108, 30351), (109, 30354), (120, 30399), (157, 30555), (167, 30591), (170, 30600), (171, 30603), (215, 30732), (219, 30747), (241, 30852), (252, 30894),

Gene: Phendrix_167 Start: 88597, Stop: 87887, Start Num: 74

Candidate Starts for Phendrix_167:

(Start: 74 @88597 has 2 MA's), (86, 88576), (96, 88516), (137, 88360), (147, 88327), (157, 88291), (165, 88264), (173, 88237), (177, 88225), (180, 88216), (190, 88192), (200, 88150), (215, 88093), (216, 88090), (221, 88069), (222, 88060), (234, 88009), (258, 87892),

Gene: Pherbot_34 Start: 25355, Stop: 24690, Start Num: 82

Candidate Starts for Pherbot_34:

(23, 25538), (44, 25469), (56, 25436), (67, 25388), (Start: 82 @25355 has 57 MA's), (113, 25220), (124, 25181), (141, 25112), (177, 24998), (201, 24944), (207, 24923), (210, 24914), (218, 24875), (220, 24866), (226, 24839), (238, 24788), (240, 24767),

Gene: Pherferi_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Pherferi_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (238, 25336), (252, 25267),

Gene: Phiderman_37 Start: 25903, Stop: 25235, Start Num: 78

Candidate Starts for Phiderman_37:

(Start: 78 @25903 has 139 MA's), (116, 25756), (124, 25729), (141, 25660), (144, 25648), (207, 25468), (218, 25420), (222, 25399), (238, 25333), (252, 25264),

Gene: PhillyPhantom_36 Start: 26010, Stop: 25342, Start Num: 78

Candidate Starts for PhillyPhantom_36:

(Start: 78 @26010 has 139 MA's), (113, 25875), (174, 25656), (207, 25575), (217, 25533), (218, 25527), (238, 25440),

Gene: Phireproof_37 Start: 25912, Stop: 25244, Start Num: 78

Candidate Starts for Phireproof_37:

(Start: 78 @25912 has 139 MA's), (116, 25765), (124, 25738), (141, 25669), (144, 25657), (207, 25477), (218, 25429), (222, 25408), (252, 25273),

Gene: Phrampa_97 Start: 85968, Stop: 86774, Start Num: 76

Candidate Starts for Phrampa_97:

(Start: 76 @85968 has 11 MA's), (103, 86073), (176, 86343), (196, 86406), (200, 86421), (224, 86517), (245, 86625), (252, 86652), (253, 86655), (265, 86751), (266, 86769),

Gene: PhredFlintston_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for PhredFlintston_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (238, 25336), (252, 25267),

Gene: Phriends_37 Start: 25912, Stop: 25244, Start Num: 78

Candidate Starts for Phriends_37:

(Start: 78 @25912 has 139 MA's), (116, 25765), (124, 25738), (141, 25669), (144, 25657), (207, 25477), (218, 25429), (222, 25408), (252, 25273),

Gene: PhunaPhoke_45 Start: 30162, Stop: 31010, Start Num: 64

Candidate Starts for PhunaPhoke_45:

(6, 29736), (10, 29766), (14, 29898), (Start: 64 @30162 has 42 MA's), (85, 30216), (90, 30252), (96, 30279), (108, 30324), (109, 30327), (120, 30372), (157, 30528), (167, 30564), (170, 30573), (171, 30576), (215, 30705), (219, 30720), (241, 30825), (252, 30867),

Gene: Pikmin_33 Start: 24761, Stop: 24096, Start Num: 82

Candidate Starts for Pikmin_33:

(30, 24908), (34, 24893), (Start: 82 @24761 has 57 MA's), (107, 24653), (129, 24572), (177, 24404), (185, 24386), (187, 24380), (212, 24314), (218, 24281), (220, 24272), (222, 24260), (238, 24194),

Gene: Pocket_36 Start: 25599, Stop: 24931, Start Num: 78

Candidate Starts for Pocket_36:

(Start: 78 @25599 has 139 MA's), (116, 25452), (124, 25425), (141, 25356), (144, 25344), (207, 25164), (218, 25116), (238, 25029), (252, 24960),

Gene: Pons_43 Start: 30551, Stop: 29745, Start Num: 46

Candidate Starts for Pons_43:

(Start: 46 @30551 has 56 MA's), (Start: 49 @30545 has 1 MA's), (Start: 87 @30443 has 1 MA's), (97, 30389), (113, 30326), (123, 30290), (139, 30215), (144, 30200), (157, 30155), (159, 30152), (168, 30116), (171, 30107), (191, 30050), (204, 30002), (205, 29999), (216, 29957), (238, 29864), (252, 29795),

Gene: PotPie_42 Start: 31482, Stop: 30676, Start Num: 46

Candidate Starts for PotPie_42:

(Start: 46 @31482 has 56 MA's), (Start: 49 @31476 has 1 MA's), (Start: 87 @31374 has 1 MA's), (97, 31320), (113, 31257), (139, 31146), (144, 31131), (157, 31086), (159, 31083), (168, 31047), (171, 31038), (191, 30981), (204, 30933), (205, 30930), (216, 30888), (238, 30795), (252, 30726),

Gene: PotatoChip_54 Start: 45341, Stop: 44577, Start Num: 62

Candidate Starts for PotatoChip_54:

(Start: 62 @45341 has 17 MA's), (120, 45122), (136, 45047), (206, 44840), (219, 44786), (230, 44741), (249, 44657),

Gene: Potty_45 Start: 30167, Stop: 31015, Start Num: 64

Candidate Starts for Potty_45:

(6, 29741), (10, 29771), (14, 29903), (Start: 64 @30167 has 42 MA's), (85, 30221), (90, 30257), (96, 30284), (108, 30329), (109, 30332), (120, 30377), (157, 30533), (167, 30569), (170, 30578), (171,

30581), (215, 30710), (219, 30725), (241, 30830), (252, 30872),

Gene: Poultress_44 Start: 30482, Stop: 31330, Start Num: 64

Candidate Starts for Poultress_44:

(1, 29921), (5, 30017), (6, 30056), (10, 30086), (13, 30182), (14, 30218), (Start: 64 @30482 has 42 MA's), (85, 30536), (90, 30572), (96, 30599), (108, 30644), (109, 30647), (120, 30692), (157, 30848), (167, 30884), (170, 30893), (171, 30896), (215, 31025), (219, 31040), (241, 31145), (252, 31187),

Gene: PrincePhergus_34 Start: 25370, Stop: 24705, Start Num: 82

Candidate Starts for PrincePhergus_34:

(23, 25553), (44, 25484), (56, 25451), (67, 25403), (Start: 82 @25370 has 57 MA's), (113, 25235), (124, 25196), (141, 25127), (177, 25013), (201, 24959), (207, 24938), (210, 24929), (218, 24890), (220, 24881), (226, 24854), (238, 24803), (240, 24782),

Gene: PsychoKiller_39 Start: 28608, Stop: 27790, Start Num: 46

Candidate Starts for PsychoKiller_39:

(Start: 46 @28608 has 56 MA's), (97, 28452), (98, 28449), (110, 28401), (113, 28389), (132, 28311), (139, 28278), (144, 28263), (145, 28260), (157, 28218), (168, 28179), (171, 28170), (191, 28113), (209, 28050), (220, 27999), (242, 27885), (252, 27846),

Gene: Pumpernickel_109 Start: 77313, Stop: 76510, Start Num: 73

Candidate Starts for Pumpernickel_109:

(Start: 73 @77313 has 6 MA's), (86, 77283), (Start: 87 @77280 has 1 MA's), (98, 77217), (122, 77127), (127, 77103), (131, 77091), (134, 77073), (157, 76983), (165, 76956), (166, 76950), (176, 76920), (199, 76851), (200, 76842), (228, 76716), (249, 76608), (252, 76593), (254, 76584),

Gene: PuppyEggo_37 Start: 25913, Stop: 25245, Start Num: 78

Candidate Starts for PuppyEggo_37:

(Start: 78 @25913 has 139 MA's), (116, 25766), (124, 25739), (141, 25670), (144, 25658), (207, 25478), (218, 25430), (222, 25409), (238, 25343), (252, 25274),

Gene: QuadZero_34 Start: 23826, Stop: 23131, Start Num: 82

Candidate Starts for QuadZero_34:

(30, 23973), (34, 23958), (Start: 82 @23826 has 57 MA's), (89, 23793), (111, 23697), (134, 23613), (177, 23463), (207, 23364), (210, 23355), (218, 23316), (226, 23280), (238, 23229),

Gene: Quartz_34 Start: 25324, Stop: 24653, Start Num: 82

Candidate Starts for Quartz_34:

(Start: 39 @25441 has 1 MA's), (51, 25408), (61, 25363), (Start: 82 @25324 has 57 MA's), (111, 25195), (124, 25150), (167, 24988), (177, 24961), (178, 24958), (198, 24919), (207, 24886), (210, 24877), (218, 24838), (229, 24787), (238, 24751), (246, 24706), (252, 24682),

Gene: Quasar_40 Start: 29156, Stop: 28338, Start Num: 46

Candidate Starts for Quasar_40:

(Start: 46 @29156 has 56 MA's), (97, 29000), (98, 28997), (110, 28949), (113, 28937), (132, 28859), (139, 28826), (144, 28811), (145, 28808), (157, 28766), (168, 28727), (171, 28718), (191, 28661), (209, 28598), (220, 28547), (242, 28433), (252, 28394),

Gene: RADical_41 Start: 28602, Stop: 27784, Start Num: 46

Candidate Starts for RADical_41:

(Start: 46 @28602 has 56 MA's), (97, 28446), (98, 28443), (110, 28395), (113, 28383), (132, 28305), (139, 28272), (144, 28257), (145, 28254), (157, 28212), (168, 28173), (171, 28164), (191, 28107), (209, 28044), (220, 27993), (242, 27879), (252, 27840),

Gene: RSchmailzl_41 Start: 28645, Stop: 27827, Start Num: 46

Candidate Starts for RSchmailzl_41:

(Start: 46 @28645 has 56 MA's), (97, 28489), (98, 28486), (110, 28438), (113, 28426), (132, 28348), (139, 28315), (144, 28300), (145, 28297), (157, 28255), (168, 28216), (171, 28207), (191, 28150), (209, 28087), (220, 28036), (242, 27922), (252, 27883),

Gene: Raccoon_36 Start: 25995, Stop: 25327, Start Num: 78

Candidate Starts for Raccoon_36:

(Start: 78 @25995 has 139 MA's), (113, 25860), (174, 25641), (207, 25560), (217, 25518), (218, 25512), (238, 25425),

Gene: Racecar_105 Start: 84483, Stop: 85292, Start Num: 76

Candidate Starts for Racecar_105:

(Start: 76 @84483 has 11 MA's), (103, 84588), (176, 84858), (200, 84936), (244, 85137), (252, 85167), (253, 85170), (261, 85200), (265, 85269), (266, 85287),

Gene: Rachella_45 Start: 30170, Stop: 31018, Start Num: 64

Candidate Starts for Rachella_45:

(6, 29744), (10, 29774), (14, 29906), (Start: 64 @30170 has 42 MA's), (85, 30224), (90, 30260), (96, 30287), (108, 30332), (109, 30335), (120, 30380), (157, 30536), (167, 30572), (170, 30581), (171, 30584), (215, 30713), (219, 30728), (241, 30833), (252, 30875),

Gene: RanchParmCat_45 Start: 30427, Stop: 29621, Start Num: 46

Candidate Starts for RanchParmCat_45:

(Start: 45 @30430 has 3 MA's), (Start: 46 @30427 has 56 MA's), (Start: 87 @30325 has 1 MA's), (97, 30271), (113, 30214), (123, 30178), (135, 30121), (139, 30103), (144, 30088), (145, 30085), (159, 30040), (168, 30004), (171, 29995), (201, 29899), (209, 29875), (216, 29842), (230, 29776), (238, 29743),

Gene: Rapheph_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Rapheph_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (238, 25336), (252, 25267),

Gene: Raptor_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for Raptor_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (238, 25340), (252, 25271),

Gene: RedBaron_43 Start: 28845, Stop: 28027, Start Num: 46

Candidate Starts for RedBaron_43:

(Start: 46 @28845 has 56 MA's), (97, 28689), (98, 28686), (110, 28638), (113, 28626), (132, 28548), (139, 28515), (144, 28500), (145, 28497), (157, 28455), (168, 28416), (171, 28407), (178, 28386), (191, 28350), (209, 28287), (220, 28236), (242, 28122), (252, 28083),

Gene: Redfield_36 Start: 26027, Stop: 25359, Start Num: 78

Candidate Starts for Redfield_36:

(Start: 78 @26027 has 139 MA's), (113, 25892), (174, 25673), (207, 25592), (217, 25550), (218, 25544), (238, 25457),

Gene: ReginaGlobina_103 Start: 84193, Stop: 84942, Start Num: 96

Candidate Starts for ReginaGlobina_103:

(Start: 76 @84109 has 11 MA's), (96, 84193), (99, 84202), (102, 84208), (131, 84313), (176, 84484), (200, 84562), (222, 84652), (229, 84694), (245, 84769), (251, 84790), (252, 84796),

Gene: RenegadeRaider_35 Start: 25237, Stop: 24572, Start Num: 82

Candidate Starts for RenegadeRaider_35:

(23, 25420), (44, 25351), (56, 25318), (67, 25270), (Start: 82 @25237 has 57 MA's), (113, 25102), (124, 25063), (141, 24994), (177, 24880), (201, 24826), (207, 24805), (210, 24796), (218, 24757), (220, 24748), (226, 24721), (238, 24670), (240, 24649),

Gene: Renzie_37 Start: 25898, Stop: 25230, Start Num: 78

Candidate Starts for Renzie_37:

(Start: 78 @25898 has 139 MA's), (116, 25751), (124, 25724), (141, 25655), (144, 25643), (207, 25463), (218, 25415), (222, 25394), (252, 25259),

Gene: Rie18_45 Start: 29667, Stop: 30512, Start Num: 64

Candidate Starts for Rie18_45:

(8, 29262), (10, 29271), (Start: 64 @29667 has 42 MA's), (80, 29709), (85, 29721), (90, 29757), (96, 29784), (108, 29829), (109, 29832), (120, 29877), (157, 30033), (167, 30069), (170, 30078), (171, 30081), (215, 30210), (219, 30225), (241, 30330), (252, 30372),

Gene: RikSengupta_49 Start: 31227, Stop: 32069, Start Num: 64

Candidate Starts for RikSengupta_49:

(16, 30993), (Start: 64 @31227 has 42 MA's), (Start: 87 @31290 has 1 MA's), (105, 31374), (108, 31386), (109, 31389), (146, 31551), (157, 31587), (167, 31623), (194, 31686), (198, 31695), (215, 31764), (219, 31779), (252, 31926),

Gene: Rings_61 Start: 41260, Stop: 40520, Start Num: 57

Candidate Starts for Rings_61:

(Start: 57 @41260 has 13 MA's), (65, 41230), (Start: 73 @41206 has 6 MA's), (Start: 79 @41194 has 5 MA's), (81, 41191), (84, 41185), (92, 41143), (94, 41134), (101, 41119), (104, 41110), (131, 41011), (133, 40996), (164, 40876), (169, 40858), (183, 40819), (187, 40810), (214, 40729), (221, 40702), (233, 40657), (234, 40654), (238, 40633), (246, 40588), (250, 40573),

Gene: Riyhil_37 Start: 25916, Stop: 25248, Start Num: 78

Candidate Starts for Riyhil_37:

(Start: 78 @25916 has 139 MA's), (116, 25769), (124, 25742), (141, 25673), (144, 25661), (207, 25481), (218, 25433), (222, 25412), (238, 25346), (252, 25277),

Gene: Roberts_36 Start: 23603, Stop: 22809, Start Num: 58

Candidate Starts for Roberts_36:

(53, 23636), (Start: 58 @23603 has 11 MA's), (93, 23489), (103, 23456), (112, 23420), (128, 23360), (129, 23357), (134, 23333), (138, 23309), (144, 23288), (147, 23279), (155, 23246), (165, 23216), (176, 23180), (200, 23102), (226, 22997), (234, 22946), (238, 22925),

Gene: Robinson_37 Start: 25904, Stop: 25236, Start Num: 78

Candidate Starts for Robinson_37:

(Start: 78 @25904 has 139 MA's), (116, 25757), (124, 25730), (141, 25661), (144, 25649), (207, 25469), (218, 25421), (252, 25265),

Gene: Rockabye_109 Start: 77741, Stop: 78529, Start Num: 85

Candidate Starts for Rockabye_109:

(Start: 76 @77720 has 11 MA's), (85, 77741), (102, 77819), (103, 77825), (147, 77996), (176, 78095), (200, 78173), (219, 78245), (222, 78263), (245, 78380), (265, 78506),

Gene: Rog141_36 Start: 25595, Stop: 24927, Start Num: 78

Candidate Starts for Rog141_36:

(Start: 78 @25595 has 139 MA's), (116, 25448), (124, 25421), (141, 25352), (144, 25340), (207, 25160), (218, 25112), (222, 25091), (238, 25025), (252, 24956),

Gene: Rooney_64 Start: 46156, Stop: 45371, Start Num: 62

Candidate Starts for Rooney_64:

(Start: 62 @46156 has 17 MA's), (85, 46102), (88, 46093), (90, 46066), (96, 46042), (109, 45994), (134, 45889), (161, 45790), (162, 45784), (173, 45745), (181, 45724), (209, 45652), (219, 45607), (220, 45601), (224, 45583), (231, 45556), (246, 45484),

Gene: RosieMae_36 Start: 25653, Stop: 24985, Start Num: 78

Candidate Starts for RosieMae_36:

(Start: 78 @25653 has 139 MA's), (116, 25506), (124, 25479), (141, 25410), (144, 25398), (207, 25218), (218, 25170), (238, 25083), (252, 25014),

Gene: SJReid_108 Start: 76738, Stop: 77565, Start Num: 76

Candidate Starts for SJReid_108:

(Start: 76 @76738 has 11 MA's), (85, 76759), (102, 76837), (103, 76843), (176, 77113), (200, 77191), (219, 77263), (222, 77281), (251, 77419), (265, 77542),

Gene: SJay_37 Start: 25907, Stop: 25239, Start Num: 78

Candidate Starts for SJay_37:

(Start: 78 @25907 has 139 MA's), (116, 25760), (124, 25733), (141, 25664), (144, 25652), (207, 25472), (218, 25424), (238, 25337), (252, 25268),

Gene: Salvus_43 Start: 31234, Stop: 30389, Start Num: 33

Candidate Starts for Salvus_43:

(Start: 33 @31234 has 2 MA's), (Start: 46 @31210 has 56 MA's), (Start: 79 @31117 has 5 MA's), (92, 31057), (113, 30979), (120, 30952), (139, 30868), (171, 30760), (181, 30733), (212, 30631), (219, 30595), (225, 30568), (237, 30505), (253, 30430), (255, 30421),

Gene: Sansa_34 Start: 25589, Stop: 24921, Start Num: 82

Candidate Starts for Sansa_34:

(Start: 66 @25622 has 1 MA's), (Start: 82 @25589 has 57 MA's), (116, 25442), (124, 25415), (134, 25376), (141, 25346), (144, 25334), (207, 25154), (218, 25106), (224, 25079), (238, 25019),

Gene: Saratos_35 Start: 25497, Stop: 24829, Start Num: 82

Candidate Starts for Saratos_35:

(56, 25575), (Start: 66 @25530 has 1 MA's), (Start: 82 @25497 has 57 MA's), (116, 25350), (124, 25323), (134, 25284), (141, 25254), (144, 25242), (207, 25062), (218, 25014), (224, 24987), (238, 24927),

Gene: SassyC_69 Start: 47080, Stop: 46298, Start Num: 62

Candidate Starts for SassyC_69:

(27, 47188), (54, 47116), (Start: 62 @47080 has 17 MA's), (71, 47053), (85, 47026), (88, 47017), (90, 46990), (96, 46966), (109, 46918), (161, 46714), (162, 46708), (173, 46669), (181, 46648), (195, 46621), (209, 46576), (219, 46531), (220, 46525), (224, 46507), (234, 46471),

Gene: Schimmels22_35 Start: 24624, Stop: 23956, Start Num: 78

Candidate Starts for Schimmels22_35:

(Start: 78 @24624 has 139 MA's), (89, 24591), (102, 24540), (116, 24477), (124, 24450), (141, 24381), (144, 24369), (198, 24222), (207, 24189), (218, 24141), (229, 24090), (238, 24054), (248, 24003),

Gene: Schnapsidee_36 Start: 26033, Stop: 25365, Start Num: 78

Candidate Starts for Schnapsidee_36:

(Start: 78 @26033 has 139 MA's), (113, 25898), (174, 25679), (207, 25598), (217, 25556), (218, 25550), (238, 25463),

Gene: Schubert_34 Start: 25315, Stop: 24650, Start Num: 82

Candidate Starts for Schubert_34:

(Start: 82 @25315 has 57 MA's), (114, 25177), (133, 25105), (134, 25102), (157, 25021), (167, 24985), (185, 24940), (208, 24880), (218, 24835), (229, 24784), (238, 24748),

Gene: Scissor2024_35 Start: 24261, Stop: 23593, Start Num: 78

Candidate Starts for Scissor2024_35:

(Start: 78 @24261 has 139 MA's), (89, 24228), (102, 24177), (116, 24114), (124, 24087), (141, 24018), (144, 24006), (198, 23859), (207, 23826), (210, 23817), (218, 23778), (229, 23727), (238, 23691), (248, 23640),

Gene: Sedgewig_36 Start: 25593, Stop: 24925, Start Num: 78

Candidate Starts for Sedgewig_36:

(Start: 78 @25593 has 139 MA's), (116, 25446), (124, 25419), (141, 25350), (144, 25338), (207, 25158), (218, 25110), (222, 25089), (238, 25023), (252, 24954),

Gene: ShaiHulud_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for ShaiHulud_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (252, 25271),

Gene: ShakeNBake_64 Start: 46028, Stop: 45246, Start Num: 62

Candidate Starts for ShakeNBake_64:

(Start: 62 @46028 has 17 MA's), (85, 45974), (88, 45965), (90, 45938), (96, 45914), (109, 45866), (134, 45761), (161, 45662), (162, 45656), (173, 45617), (181, 45596), (209, 45524), (219, 45479), (220, 45473), (224, 45455), (234, 45419), (246, 45356),

Gene: Shamu_35 Start: 25518, Stop: 24850, Start Num: 82

Candidate Starts for Shamu_35:

(56, 25596), (Start: 66 @25551 has 1 MA's), (Start: 82 @25518 has 57 MA's), (116, 25371), (124, 25344), (134, 25305), (141, 25275), (144, 25263), (207, 25083), (218, 25035), (224, 25008), (238, 24948),

Gene: SheckWes_44 Start: 30075, Stop: 29269, Start Num: 46

Candidate Starts for SheckWes_44:

(Start: 46 @30075 has 56 MA's), (Start: 87 @29967 has 1 MA's), (97, 29913), (113, 29850), (139, 29739), (152, 29697), (157, 29679), (159, 29676), (168, 29640), (171, 29631), (191, 29574), (204, 29526), (205, 29523), (216, 29481), (238, 29388), (252, 29319),

Gene: Shee_37 Start: 25903, Stop: 25235, Start Num: 78

Candidate Starts for Shee_37:

(Start: 78 @25903 has 139 MA's), (116, 25756), (124, 25729), (141, 25660), (144, 25648), (207, 25468), (218, 25420), (238, 25333), (252, 25264),

Gene: Shrew_85 Start: 51163, Stop: 51948, Start Num: 55

Candidate Starts for Shrew_85:

(Start: 55 @51163 has 3 MA's), (93, 51289), (96, 51295), (108, 51340), (132, 51439), (136, 51463), (139, 51472), (145, 51490), (168, 51571), (171, 51580), (181, 51607), (191, 51637), (207, 51691), (253, 51895), (260, 51931),

Gene: SilentWarrior_45 Start: 29382, Stop: 30230, Start Num: 64

Candidate Starts for SilentWarrior_45:

(1, 28821), (5, 28917), (6, 28956), (10, 28986), (14, 29118), (Start: 64 @29382 has 42 MA's), (85, 29436), (90, 29472), (96, 29499), (108, 29544), (109, 29547), (120, 29592), (157, 29748), (167, 29784), (170, 29793), (171, 29796), (215, 29925), (219, 29940), (241, 30045), (252, 30087),

Gene: Sinatra_34 Start: 25366, Stop: 24701, Start Num: 82

Candidate Starts for Sinatra_34:

(23, 25549), (44, 25480), (56, 25447), (67, 25399), (Start: 82 @25366 has 57 MA's), (113, 25231), (124, 25192), (141, 25123), (177, 25009), (201, 24955), (207, 24934), (210, 24925), (218, 24886), (220, 24877), (226, 24850), (238, 24799), (240, 24778),

Gene: SirVictor_34 Start: 25445, Stop: 24780, Start Num: 82

Candidate Starts for SirVictor_34:

(18, 25676), (23, 25631), (44, 25559), (47, 25550), (56, 25526), (Start: 66 @25481 has 1 MA's), (67, 25478), (Start: 82 @25445 has 57 MA's), (89, 25412), (113, 25310), (124, 25271), (134, 25232), (141, 25202), (167, 25115), (177, 25088), (201, 25034), (207, 25013), (210, 25004), (218, 24965), (226, 24929), (238, 24878), (240, 24857),

Gene: Sixama_165 Start: 92948, Stop: 92217, Start Num: 73

Candidate Starts for Sixama_165:

(Start: 73 @92948 has 6 MA's), (Start: 87 @92921 has 1 MA's), (99, 92855), (116, 92798), (122, 92780), (128, 92753), (134, 92726), (137, 92705), (146, 92675), (177, 92570), (184, 92552), (188, 92543), (197, 92507), (200, 92495), (215, 92435), (216, 92432), (222, 92402), (224, 92396), (227, 92384), (235, 92345),

Gene: SketchMex_40 Start: 28753, Stop: 27935, Start Num: 46

Candidate Starts for SketchMex_40:

(Start: 41 @28771 has 3 MA's), (Start: 46 @28753 has 56 MA's), (Start: 49 @28747 has 1 MA's), (97, 28597), (98, 28594), (113, 28534), (132, 28456), (139, 28423), (145, 28405), (157, 28363), (159, 28360), (168, 28324), (171, 28315), (191, 28258), (201, 28219), (213, 28174), (216, 28162), (219, 28150), (220, 28144), (229, 28096), (252, 27991),

Gene: Snakehole_45 Start: 29347, Stop: 30192, Start Num: 64

Candidate Starts for Snakehole_45:

(6, 28921), (7, 28927), (10, 28951), (14, 29083), (Start: 64 @29347 has 42 MA's), (85, 29401), (90, 29437), (96, 29464), (108, 29509), (109, 29512), (120, 29557), (157, 29713), (167, 29749), (170, 29758), (171, 29761), (215, 29890), (219, 29905), (241, 30010), (252, 30052),

Gene: Socotra_40 Start: 28607, Stop: 27789, Start Num: 46

Candidate Starts for Socotra_40:

(Start: 46 @28607 has 56 MA's), (97, 28451), (98, 28448), (110, 28400), (113, 28388), (132, 28310), (139, 28277), (144, 28262), (145, 28259), (157, 28217), (168, 28178), (171, 28169), (178, 28148), (191, 28112), (209, 28049), (220, 27998), (242, 27884), (252, 27845),

Gene: SoilGremlin_37 Start: 25909, Stop: 25241, Start Num: 78

Candidate Starts for SoilGremlin_37:

(Start: 78 @25909 has 139 MA's), (116, 25762), (124, 25735), (141, 25666), (144, 25654), (207, 25474), (218, 25426), (222, 25405), (252, 25270),

Gene: SolidSnake_38 Start: 25912, Stop: 25244, Start Num: 78

Candidate Starts for SolidSnake_38:

(Start: 78 @25912 has 139 MA's), (116, 25765), (124, 25738), (141, 25669), (144, 25657), (207, 25477), (218, 25429), (222, 25408), (252, 25273),

Gene: SonOfLevi_36 Start: 25590, Stop: 24922, Start Num: 78

Candidate Starts for SonOfLevi_36:

(Start: 78 @25590 has 139 MA's), (116, 25443), (124, 25416), (141, 25347), (144, 25335), (207, 25155), (218, 25107), (238, 25020), (252, 24951),

Gene: Sopespian_39 Start: 28609, Stop: 27791, Start Num: 46

Candidate Starts for Sopespian_39:

(Start: 46 @28609 has 56 MA's), (97, 28453), (98, 28450), (110, 28402), (113, 28390), (132, 28312), (139, 28279), (144, 28264), (145, 28261), (157, 28219), (168, 28180), (171, 28171), (191, 28114), (209, 28051), (220, 28000), (242, 27886), (252, 27847),

Gene: SorJuana_60 Start: 40819, Stop: 40079, Start Num: 57

Candidate Starts for SorJuana_60:

(Start: 57 @40819 has 13 MA's), (65, 40789), (Start: 73 @40765 has 6 MA's), (Start: 79 @40753 has 5 MA's), (81, 40750), (84, 40744), (92, 40702), (94, 40693), (101, 40678), (104, 40669), (131, 40570), (133, 40555), (164, 40435), (169, 40417), (183, 40378), (187, 40369), (214, 40288), (221, 40261), (233, 40216), (234, 40213), (238, 40192), (246, 40147), (250, 40132),

Gene: Soror1_36 Start: 26042, Stop: 25374, Start Num: 78

Candidate Starts for Soror1_36:

(Start: 78 @26042 has 139 MA's), (113, 25907), (174, 25688), (207, 25607), (217, 25565), (218, 25559), (238, 25472),

Gene: Sparcetus_49 Start: 31104, Stop: 31946, Start Num: 64

Candidate Starts for Sparcetus_49:

(Start: 64 @31104 has 42 MA's), (Start: 87 @31167 has 1 MA's), (105, 31251), (108, 31263), (109, 31266), (146, 31428), (157, 31464), (167, 31500), (194, 31563), (198, 31572), (215, 31641), (219, 31656), (252, 31803),

Gene: Stanktossa_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Stanktossa_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (238, 25336), (252, 25267),

Gene: Starburst_41 Start: 28602, Stop: 27784, Start Num: 46

Candidate Starts for Starburst_41:

(Start: 46 @28602 has 56 MA's), (97, 28446), (98, 28443), (110, 28395), (113, 28383), (132, 28305), (139, 28272), (144, 28257), (145, 28254), (157, 28212), (168, 28173), (171, 28164), (191, 28107), (209, 28044), (220, 27993), (242, 27879), (243, 27876), (252, 27840),

Gene: SteamedHams_41 Start: 28529, Stop: 27711, Start Num: 46

Candidate Starts for SteamedHams_41:

(Start: 41 @28547 has 3 MA's), (Start: 46 @28529 has 56 MA's), (97, 28373), (98, 28370), (110, 28322), (113, 28310), (132, 28232), (139, 28199), (145, 28181), (152, 28157), (157, 28139), (159, 28136), (168, 28100), (171, 28091), (191, 28034), (201, 27995), (219, 27926), (220, 27920), (229,

27872), (252, 27767),

Gene: Stewart25555_95 Start: 81038, Stop: 81781, Start Num: 96

Candidate Starts for Stewart25555_95:

(Start: 76 @80954 has 11 MA's), (Start: 87 @80981 has 1 MA's), (96, 81038), (99, 81047), (102, 81053), (148, 81233), (176, 81329), (200, 81407), (222, 81497), (231, 81545), (245, 81614), (252, 81641), (265, 81758),

Gene: Stickynote_54 Start: 45345, Stop: 44581, Start Num: 62

Candidate Starts for Stickynote_54:

(Start: 62 @45345 has 17 MA's), (120, 45126), (206, 44844), (219, 44790), (230, 44745), (249, 44661),

Gene: StingRay_36 Start: 25611, Stop: 24943, Start Num: 78

Candidate Starts for StingRay_36:

(Start: 78 @25611 has 139 MA's), (116, 25464), (124, 25437), (141, 25368), (144, 25356), (207, 25176), (218, 25128), (222, 25107), (238, 25041), (252, 24972),

Gene: StirfryIV_36 Start: 25604, Stop: 24936, Start Num: 78

Candidate Starts for StirfryIV_36:

(Start: 78 @25604 has 139 MA's), (116, 25457), (124, 25430), (141, 25361), (144, 25349), (207, 25169), (218, 25121), (222, 25100), (238, 25034), (252, 24965),

Gene: Stormbreaker8_36 Start: 26027, Stop: 25359, Start Num: 78

Candidate Starts for Stormbreaker8_36:

(Start: 78 @26027 has 139 MA's), (113, 25892), (174, 25673), (207, 25592), (217, 25550), (218, 25544), (238, 25457),

Gene: Strathdee_37 Start: 25911, Stop: 25243, Start Num: 78

Candidate Starts for Strathdee_37:

(Start: 78 @25911 has 139 MA's), (116, 25764), (124, 25737), (141, 25668), (144, 25656), (207, 25476), (218, 25428), (222, 25407), (238, 25341), (252, 25272),

Gene: Studio_38 Start: 24966, Stop: 24175, Start Num: 58

Candidate Starts for Studio_38:

(31, 25056), (38, 25041), (42, 25035), (53, 24999), (Start: 58 @24966 has 11 MA's), (93, 24852), (98, 24834), (103, 24819), (112, 24783), (128, 24723), (129, 24720), (134, 24696), (147, 24642), (155, 24609), (165, 24579), (176, 24543), (200, 24465), (222, 24375), (226, 24360), (234, 24309), (238, 24288), (253, 24216),

Gene: SummitAcademy_41 Start: 30111, Stop: 29305, Start Num: 46

Candidate Starts for SummitAcademy_41:

(Start: 46 @30111 has 56 MA's), (Start: 49 @30105 has 1 MA's), (Start: 87 @30003 has 1 MA's), (97, 29949), (113, 29886), (139, 29775), (144, 29760), (157, 29715), (159, 29712), (168, 29676), (171, 29667), (191, 29610), (204, 29562), (205, 29559), (216, 29517), (238, 29424), (252, 29355),

Gene: Superfresh_37 Start: 25898, Stop: 25230, Start Num: 78

Candidate Starts for Superfresh_37:

(Start: 78 @25898 has 139 MA's), (116, 25751), (124, 25724), (141, 25655), (144, 25643), (207, 25463), (218, 25415), (222, 25394), (252, 25259),

Gene: Survivors_38 Start: 28560, Stop: 27748, Start Num: 46

Candidate Starts for Survivors_38:

(25, 28632), (Start: 46 @28560 has 56 MA's), (113, 28344), (123, 28308), (132, 28266), (135, 28251), (139, 28233), (144, 28218), (145, 28215), (157, 28173), (171, 28125), (192, 28065), (201, 28032), (215, 27978), (219, 27963), (242, 27846),

Gene: SweatNTears_41 Start: 28505, Stop: 27687, Start Num: 46

Candidate Starts for SweatNTears_41:

(Start: 46 @28505 has 56 MA's), (97, 28349), (98, 28346), (110, 28298), (113, 28286), (132, 28208), (139, 28175), (144, 28160), (145, 28157), (152, 28133), (157, 28115), (168, 28076), (171, 28067), (191, 28010), (209, 27947), (220, 27896), (242, 27782), (252, 27743),

Gene: Symere_36 Start: 25591, Stop: 24923, Start Num: 78

Candidate Starts for Symere_36:

(Start: 78 @25591 has 139 MA's), (116, 25444), (124, 25417), (141, 25348), (144, 25336), (207, 25156), (218, 25108), (222, 25087), (238, 25021), (252, 24952),

Gene: TMaxx_37 Start: 24246, Stop: 23455, Start Num: 58

Candidate Starts for TMaxx_37:

(40, 24318), (48, 24297), (53, 24279), (Start: 58 @24246 has 11 MA's), (69, 24210), (93, 24126), (98, 24108), (103, 24093), (128, 23997), (134, 23970), (147, 23916), (155, 23883), (165, 23853), (176, 23817), (200, 23739), (224, 23643), (234, 23583), (238, 23562),

Gene: Talia1610_104 Start: 83848, Stop: 84657, Start Num: 76

Candidate Starts for Talia1610_104:

(Start: 76 @83848 has 11 MA's), (103, 83953), (176, 84223), (200, 84301), (244, 84502), (252, 84532), (253, 84535), (261, 84565), (265, 84634), (266, 84652),

Gene: Tarnish_42 Start: 30621, Stop: 29815, Start Num: 46

Candidate Starts for Tarnish_42:

(Start: 46 @30621 has 56 MA's), (Start: 49 @30615 has 1 MA's), (Start: 87 @30513 has 1 MA's), (97, 30459), (113, 30396), (123, 30360), (139, 30285), (144, 30270), (157, 30225), (159, 30222), (168, 30186), (171, 30177), (191, 30120), (204, 30072), (205, 30069), (216, 30027), (238, 29934), (252, 29865),

Gene: TatarkaPM_37 Start: 25912, Stop: 25244, Start Num: 79

Candidate Starts for TatarkaPM_37:

(Start: 79 @25912 has 5 MA's), (116, 25765), (124, 25738), (141, 25669), (144, 25657), (207, 25477), (218, 25429), (222, 25408), (238, 25342), (252, 25273),

Gene: Teagan_37 Start: 25906, Stop: 25238, Start Num: 78

Candidate Starts for Teagan_37:

(Start: 78 @25906 has 139 MA's), (116, 25759), (124, 25732), (141, 25663), (144, 25651), (207, 25471), (218, 25423), (222, 25402), (252, 25267),

Gene: TeddyBear_36 Start: 25608, Stop: 24940, Start Num: 78

Candidate Starts for TeddyBear_36:

(Start: 78 @25608 has 139 MA's), (116, 25461), (124, 25434), (141, 25365), (144, 25353), (207, 25173), (218, 25125), (238, 25038), (252, 24969),

Gene: Tedro_45 Start: 29601, Stop: 30446, Start Num: 64

Candidate Starts for Tedro_45:

(6, 29175), (10, 29205), (13, 29301), (14, 29337), (Start: 64 @29601 has 42 MA's), (85, 29655), (90, 29691), (96, 29718), (108, 29763), (109, 29766), (120, 29811), (157, 29967), (167, 30003), (170, 30012), (171, 30015), (215, 30144), (219, 30159), (241, 30264), (252, 30306),

Gene: Tenda_36 Start: 25606, Stop: 24938, Start Num: 78

Candidate Starts for Tenda_36:

(Start: 78 @25606 has 139 MA's), (116, 25459), (124, 25432), (141, 25363), (144, 25351), (207, 25171), (218, 25123), (222, 25102), (238, 25036), (252, 24967),

Gene: Thompsone_37 Start: 25913, Stop: 25245, Start Num: 78

Candidate Starts for Thompsone_37:

(Start: 78 @25913 has 139 MA's), (116, 25766), (124, 25739), (141, 25670), (144, 25658), (207, 25478), (218, 25430), (222, 25409), (252, 25274),

Gene: Thorongil_37 Start: 25913, Stop: 25245, Start Num: 78

Candidate Starts for Thorongil_37:

(Start: 78 @25913 has 139 MA's), (116, 25766), (124, 25739), (141, 25670), (144, 25658), (207, 25478), (218, 25430), (222, 25409), (238, 25343), (252, 25274),

Gene: Thunderclap_60 Start: 41241, Stop: 40501, Start Num: 57

Candidate Starts for Thunderclap_60:

(Start: 57 @41241 has 13 MA's), (65, 41211), (Start: 73 @41187 has 6 MA's), (Start: 79 @41175 has 5 MA's), (81, 41172), (84, 41166), (92, 41124), (94, 41115), (101, 41100), (104, 41091), (131, 40992), (133, 40977), (164, 40857), (169, 40839), (183, 40800), (187, 40791), (214, 40710), (221, 40683), (233, 40638), (234, 40635), (238, 40614), (246, 40569), (250, 40554),

Gene: Tiggy93_45 Start: 30173, Stop: 31021, Start Num: 64

Candidate Starts for Tiggy93_45:

(6, 29747), (10, 29777), (14, 29909), (Start: 64 @30173 has 42 MA's), (85, 30227), (90, 30263), (96, 30290), (108, 30335), (109, 30338), (120, 30383), (157, 30539), (167, 30575), (170, 30584), (171, 30587), (215, 30716), (219, 30731), (241, 30836), (252, 30878),

Gene: TinSulphur_37 Start: 25912, Stop: 25244, Start Num: 78

Candidate Starts for TinSulphur_37:

(Start: 78 @25912 has 139 MA's), (116, 25765), (124, 25738), (141, 25669), (144, 25657), (207, 25477), (218, 25429), (222, 25408), (238, 25342), (252, 25273),

Gene: TinyMiny_49 Start: 31125, Stop: 31967, Start Num: 64

Candidate Starts for TinyMiny_49:

(16, 30891), (Start: 64 @31125 has 42 MA's), (Start: 87 @31188 has 1 MA's), (105, 31272), (108, 31284), (109, 31287), (146, 31449), (157, 31485), (167, 31521), (194, 31584), (198, 31593), (215, 31662), (219, 31677), (252, 31824),

Gene: Tinyman4_35 Start: 24250, Stop: 23582, Start Num: 78

Candidate Starts for Tinyman4_35:

(Start: 78 @24250 has 139 MA's), (89, 24217), (102, 24166), (116, 24103), (124, 24076), (141, 24007), (144, 23995), (198, 23848), (207, 23815), (218, 23767), (229, 23716), (238, 23680), (248, 23629),

Gene: Tolls_41 Start: 28634, Stop: 27816, Start Num: 46

Candidate Starts for Tolls_41:

(Start: 41 @28652 has 3 MA's), (Start: 46 @28634 has 56 MA's), (Start: 49 @28628 has 1 MA's), (97, 28478), (98, 28475), (110, 28427), (113, 28415), (132, 28337), (139, 28304), (145, 28286), (157, 28244), (159, 28241), (168, 28205), (171, 28196), (191, 28139), (201, 28100), (219, 28031), (220, 28025), (229, 27977), (252, 27872),

Gene: Tongui_45 Start: 29721, Stop: 30566, Start Num: 64

Candidate Starts for Tongui_45:

(8, 29316), (10, 29325), (12, 29382), (Start: 64 @29721 has 42 MA's), (85, 29775), (90, 29811), (96, 29838), (108, 29883), (109, 29886), (120, 29931), (157, 30087), (167, 30123), (170, 30132), (171, 30135), (215, 30264), (219, 30279), (224, 30303), (241, 30384), (252, 30426),

Gene: TripleC_37 Start: 26597, Stop: 25806, Start Num: 58

Candidate Starts for TripleC_37:

(40, 26669), (48, 26648), (53, 26630), (Start: 58 @26597 has 11 MA's), (69, 26561), (93, 26477), (98, 26459), (103, 26444), (128, 26348), (134, 26321), (147, 26267), (155, 26234), (165, 26204), (176, 26168), (200, 26090), (234, 25934), (238, 25913),

Gene: Triscuit_80 Start: 49756, Stop: 50565, Start Num: 55

Candidate Starts for Triscuit_80:

(Start: 55 @49756 has 3 MA's), (102, 49903), (108, 49933), (113, 49954), (139, 50065), (145, 50083), (157, 50125), (159, 50128), (168, 50164), (191, 50230), (219, 50335), (220, 50341), (225, 50362), (259, 50521),

Gene: Troje_42 Start: 29091, Stop: 28273, Start Num: 46

Candidate Starts for Troje_42:

(Start: 41 @29109 has 3 MA's), (Start: 46 @29091 has 56 MA's), (Start: 49 @29085 has 1 MA's), (97, 28935), (98, 28932), (113, 28872), (132, 28794), (139, 28761), (145, 28743), (157, 28701), (159, 28698), (168, 28662), (171, 28653), (191, 28596), (201, 28557), (213, 28512), (216, 28500), (219, 28488), (220, 28482), (229, 28434), (252, 28329),

Gene: TwoBits_34 Start: 24236, Stop: 23541, Start Num: 82

Candidate Starts for TwoBits_34:

(30, 24383), (34, 24368), (Start: 82 @24236 has 57 MA's), (89, 24203), (111, 24107), (124, 24062), (139, 23996), (177, 23873), (207, 23774), (218, 23726), (226, 23690), (229, 23675), (232, 23666), (238, 23639), (252, 23570),

Gene: Typhonomachy_38 Start: 28227, Stop: 27409, Start Num: 46

Candidate Starts for Typhonomachy_38:

(Start: 46 @28227 has 56 MA's), (97, 28071), (98, 28068), (110, 28020), (113, 28008), (132, 27930), (139, 27897), (144, 27882), (145, 27879), (157, 27837), (168, 27798), (171, 27789), (178, 27768), (191, 27732), (209, 27669), (220, 27618), (242, 27504), (252, 27465),

Gene: Velene_37 Start: 25911, Stop: 25243, Start Num: 78

Candidate Starts for Velene_37:

(Start: 78 @25911 has 139 MA's), (116, 25764), (124, 25737), (141, 25668), (144, 25656), (207, 25476), (218, 25428), (222, 25407), (252, 25272),

Gene: Vine_44 Start: 30838, Stop: 30032, Start Num: 46

Candidate Starts for Vine_44:

(Start: 46 @30838 has 56 MA's), (Start: 49 @30832 has 1 MA's), (Start: 87 @30730 has 1 MA's), (97, 30676), (113, 30613), (123, 30577), (139, 30502), (144, 30487), (157, 30442), (159, 30439), (168, 30403), (171, 30394), (191, 30337), (204, 30289), (205, 30286), (216, 30244), (238, 30151), (252, 30082),

Gene: Virizion_69 Start: 46376, Stop: 45591, Start Num: 62

Candidate Starts for Virizion_69:

(Start: 62 @46376 has 17 MA's), (85, 46322), (88, 46313), (90, 46286), (96, 46262), (109, 46214), (161, 46010), (162, 46004), (173, 45965), (181, 45944), (209, 45872), (219, 45827), (220, 45821), (224, 45803), (231, 45776), (246, 45704),

Gene: Vispistious_37 Start: 25913, Stop: 25245, Start Num: 78

Candidate Starts for Vispistious_37:

(Start: 78 @25913 has 139 MA's), (116, 25766), (124, 25739), (141, 25670), (144, 25658), (207, 25478), (218, 25430), (222, 25409), (238, 25343), (252, 25274),

Gene: WaddleDee_91 Start: 79411, Stop: 80229, Start Num: 76

Candidate Starts for WaddleDee_91:

(Start: 76 @79411 has 11 MA's), (Start: 87 @79438 has 1 MA's), (96, 79495), (99, 79504), (102, 79510), (176, 79786), (196, 79849), (200, 79864), (222, 79954), (231, 79999), (245, 80068), (252, 80095), (264, 80191), (265, 80206),

Gene: Wallaby_40 Start: 28661, Stop: 27849, Start Num: 46

Candidate Starts for Wallaby_40:

(25, 28733), (Start: 46 @28661 has 56 MA's), (113, 28445), (123, 28409), (132, 28367), (135, 28352), (139, 28334), (144, 28319), (145, 28316), (157, 28274), (171, 28226), (192, 28166), (201, 28133), (212, 28100), (215, 28079), (219, 28064), (242, 27947),

Gene: Wardwill_36 Start: 23980, Stop: 23285, Start Num: 82

Candidate Starts for Wardwill_36:

(30, 24127), (34, 24112), (Start: 82 @23980 has 57 MA's), (89, 23947), (111, 23851), (134, 23767), (177, 23617), (207, 23518), (210, 23509), (218, 23470), (226, 23434), (238, 23383),

Gene: Wentworth_64 Start: 46130, Stop: 45360, Start Num: 62

Candidate Starts for Wentworth_64:

(Start: 62 @46130 has 17 MA's), (80, 46088), (85, 46076), (86, 46073), (90, 46040), (109, 45968), (132, 45869), (161, 45764), (162, 45758), (173, 45719), (181, 45698), (204, 45641), (219, 45581), (220, 45575), (231, 45530), (234, 45521),

Gene: WestPM_33 Start: 24107, Stop: 23439, Start Num: 78

Candidate Starts for WestPM_33:

(Start: 78 @24107 has 139 MA's), (89, 24074), (102, 24023), (116, 23960), (124, 23933), (141, 23864), (144, 23852), (198, 23705), (207, 23672), (218, 23624), (229, 23573), (238, 23537), (248, 23486),

Gene: WildNOut_37 Start: 25910, Stop: 25242, Start Num: 78

Candidate Starts for WildNOut_37:

(Start: 78 @25910 has 139 MA's), (116, 25763), (124, 25736), (141, 25667), (144, 25655), (207, 25475), (218, 25427), (222, 25406), (238, 25340), (252, 25271),

Gene: Wilkos_66 Start: 46285, Stop: 45515, Start Num: 62

Candidate Starts for Wilkos_66:

(Start: 62 @46285 has 17 MA's), (71, 46258), (80, 46243), (85, 46231), (86, 46228), (90, 46195), (96, 46171), (97, 46168), (105, 46138), (132, 46024), (161, 45919), (162, 45913), (173, 45874), (181, 45853), (204, 45796), (219, 45736), (220, 45730), (234, 45676),

Gene: WilliamStrong_35 Start: 25330, Stop: 24659, Start Num: 82

Candidate Starts for WilliamStrong_35:

(56, 25411), (Start: 66 @25366 has 1 MA's), (Start: 82 @25330 has 57 MA's), (113, 25195), (116, 25183), (178, 24964), (206, 24895), (207, 24892), (215, 24856), (216, 24853), (218, 24844), (220, 24835), (238, 24757), (252, 24688),

Gene: Winzigespinne_36 Start: 25594, Stop: 24926, Start Num: 78

Candidate Starts for Winzigespinne_36:

(Start: 78 @25594 has 139 MA's), (116, 25447), (124, 25420), (141, 25351), (144, 25339), (207, 25159), (218, 25111), (222, 25090), (238, 25024), (252, 24955),

Gene: Wolfwood_38 Start: 28632, Stop: 27820, Start Num: 46

Candidate Starts for Wolfwood_38:

(25, 28704), (Start: 46 @28632 has 56 MA's), (113, 28416), (123, 28380), (132, 28338), (135, 28323), (139, 28305), (144, 28290), (145, 28287), (157, 28245), (171, 28197), (192, 28137), (201, 28104), (215, 28050), (219, 28035), (242, 27918),

Gene: Wollypog_48 Start: 34784, Stop: 35608, Start Num: 66

Candidate Starts for Wollypog_48:

(Start: 66 @34784 has 1 MA's), (83, 34832), (85, 34838), (86, 34841), (96, 34898), (140, 35081), (141, 35084), (166, 35174), (175, 35201), (183, 35222), (217, 35324), (219, 35333),

Gene: Xebius_35 Start: 25500, Stop: 24832, Start Num: 82

Candidate Starts for Xebius_35:

(56, 25578), (Start: 66 @25533 has 1 MA's), (Start: 82 @25500 has 57 MA's), (116, 25353), (124, 25326), (134, 25287), (141, 25257), (144, 25245), (207, 25065), (218, 25017), (224, 24990), (238, 24930),

Gene: Yakult_42 Start: 29373, Stop: 28570, Start Num: 46

Candidate Starts for Yakult_42:

(17, 29496), (20, 29466), (31, 29409), (Start: 45 @29376 has 3 MA's), (Start: 46 @29373 has 56 MA's), (Start: 87 @29274 has 1 MA's), (113, 29163), (123, 29127), (135, 29070), (139, 29052), (144, 29037), (145, 29034), (159, 28989), (168, 28953), (171, 28944), (209, 28824), (216, 28791), (219, 28779), (220, 28773), (225, 28752),

Gene: Yappy_86 Start: 44513, Stop: 43758, Start Num: 60

Candidate Starts for Yappy_86:

(Start: 55 @44546 has 3 MA's), (Start: 60 @44513 has 1 MA's), (85, 44447), (86, 44444), (90, 44411), (95, 44387), (97, 44369), (107, 44333), (150, 44168), (156, 44141), (158, 44138), (175, 44078), (176, 44075), (178, 44069), (182, 44060), (211, 43979), (214, 43958), (230, 43883), (239, 43847), (250, 43790),

Gene: Yara_60 Start: 44990, Stop: 44223, Start Num: 62

Candidate Starts for Yara_60:

(Start: 62 @44990 has 17 MA's), (71, 44963), (85, 44936), (88, 44927), (90, 44900), (173, 44579), (174, 44576), (181, 44558), (195, 44531), (220, 44435), (252, 44297),

Gene: Yarn_37 Start: 28394, Stop: 27576, Start Num: 46

Candidate Starts for Yarn_37:

(Start: 41 @28412 has 3 MA's), (Start: 46 @28394 has 56 MA's), (Start: 49 @28388 has 1 MA's), (97, 28238), (98, 28235), (110, 28187), (113, 28175), (132, 28097), (139, 28064), (145, 28046), (157, 28004), (159, 28001), (168, 27965), (171, 27956), (191, 27899), (201, 27860), (219, 27791), (220, 27785), (229, 27737), (252, 27632),

Gene: Yeezus_60 Start: 41211, Stop: 40471, Start Num: 57

Candidate Starts for Yeezus_60:

(Start: 57 @41211 has 13 MA's), (65, 41181), (Start: 73 @41157 has 6 MA's), (Start: 79 @41145 has 5 MA's), (81, 41142), (84, 41136), (92, 41094), (94, 41085), (101, 41070), (104, 41061), (131, 40962), (133, 40947), (164, 40827), (169, 40809), (183, 40770), (187, 40761), (214, 40680), (221, 40653), (233, 40608), (234, 40605), (238, 40584), (246, 40539), (250, 40524),

Gene: Yucky_44 Start: 30778, Stop: 29972, Start Num: 46

Candidate Starts for Yucky_44:

(Start: 46 @30778 has 56 MA's), (Start: 49 @30772 has 1 MA's), (Start: 87 @30670 has 1 MA's), (97, 30616), (113, 30553), (123, 30517), (139, 30442), (144, 30427), (157, 30382), (159, 30379), (168, 30343), (171, 30334), (191, 30277), (204, 30229), (205, 30226), (216, 30184), (238, 30091), (252, 30022),

Gene: Yummy_42 Start: 28728, Stop: 27910, Start Num: 46

Candidate Starts for Yummy_42:

(Start: 41 @28746 has 3 MA's), (Start: 46 @28728 has 56 MA's), (Start: 49 @28722 has 1 MA's), (97, 28572), (98, 28569), (113, 28509), (132, 28431), (139, 28398), (145, 28380), (157, 28338), (159, 28335), (168, 28299), (171, 28290), (191, 28233), (201, 28194), (213, 28149), (216, 28137), (219, 28125), (220, 28119), (252, 27966),

Gene: YuuY_35 Start: 25953, Stop: 25282, Start Num: 82

Candidate Starts for YuuY_35:

(Start: 82 @25953 has 57 MA's), (111, 25824), (124, 25779), (151, 25674), (167, 25617), (177, 25590), (207, 25515), (210, 25506), (218, 25467), (229, 25416), (238, 25380), (252, 25311),

Gene: Zada_37 Start: 25882, Stop: 25214, Start Num: 78

Candidate Starts for Zada_37:

(Start: 78 @25882 has 139 MA's), (116, 25735), (124, 25708), (141, 25639), (144, 25627), (207, 25447), (218, 25399), (222, 25378), (238, 25312), (252, 25243),

Gene: Zareef_38 Start: 28654, Stop: 27842, Start Num: 46

Candidate Starts for Zareef_38:

(25, 28726), (Start: 46 @28654 has 56 MA's), (113, 28438), (123, 28402), (132, 28360), (135, 28345), (139, 28327), (144, 28312), (145, 28309), (157, 28267), (171, 28219), (192, 28159), (201, 28126), (215, 28072), (219, 28057), (242, 27940),

Gene: Zayuliv_34 Start: 24399, Stop: 23704, Start Num: 82

Candidate Starts for Zayuliv_34:

(30, 24546), (34, 24531), (Start: 82 @24399 has 57 MA's), (89, 24366), (111, 24270), (134, 24186), (177, 24036), (207, 23937), (210, 23928), (218, 23889), (226, 23853), (238, 23802),

Gene: Zenitsu_35 Start: 25533, Stop: 24865, Start Num: 82

Candidate Starts for Zenitsu_35:

(56, 25611), (Start: 66 @25566 has 1 MA's), (Start: 82 @25533 has 57 MA's), (116, 25386), (124, 25359), (134, 25320), (141, 25290), (144, 25278), (207, 25098), (218, 25050), (224, 25023), (238, 24963),

Gene: Zepp_35 Start: 23858, Stop: 23163, Start Num: 82

Candidate Starts for Zepp_35:

(30, 24005), (34, 23990), (Start: 82 @23858 has 57 MA's), (89, 23825), (111, 23729), (134, 23645), (177, 23495), (207, 23396), (210, 23387), (218, 23348), (226, 23312), (238, 23261),

Gene: Zion_54 Start: 45339, Stop: 44575, Start Num: 62

Candidate Starts for Zion_54:

(Start: 62 @45339 has 17 MA's), (120, 45120), (136, 45045), (206, 44838), (219, 44784), (230, 44739), (249, 44655),

Gene: Zooman_96 Start: 73343, Stop: 72582, Start Num: 75

Candidate Starts for Zooman_96:

(Start: 75 @73343 has 2 MA's), (128, 73151), (129, 73148), (166, 73001), (176, 72971), (197, 72905), (200, 72893), (215, 72833), (223, 72797), (234, 72740), (240, 72698), (252, 72644),

Gene: Zuko_81 Start: 61795, Stop: 62607, Start Num: 50

Candidate Starts for Zuko_81:

(Start: 50 @61795 has 2 MA's), (80, 61870), (115, 62005), (132, 62074), (134, 62080), (139, 62107), (145, 62125), (172, 62218), (183, 62248), (191, 62272), (205, 62326), (207, 62329), (218, 62377), (220, 62386), (225, 62407), (236, 62482),