

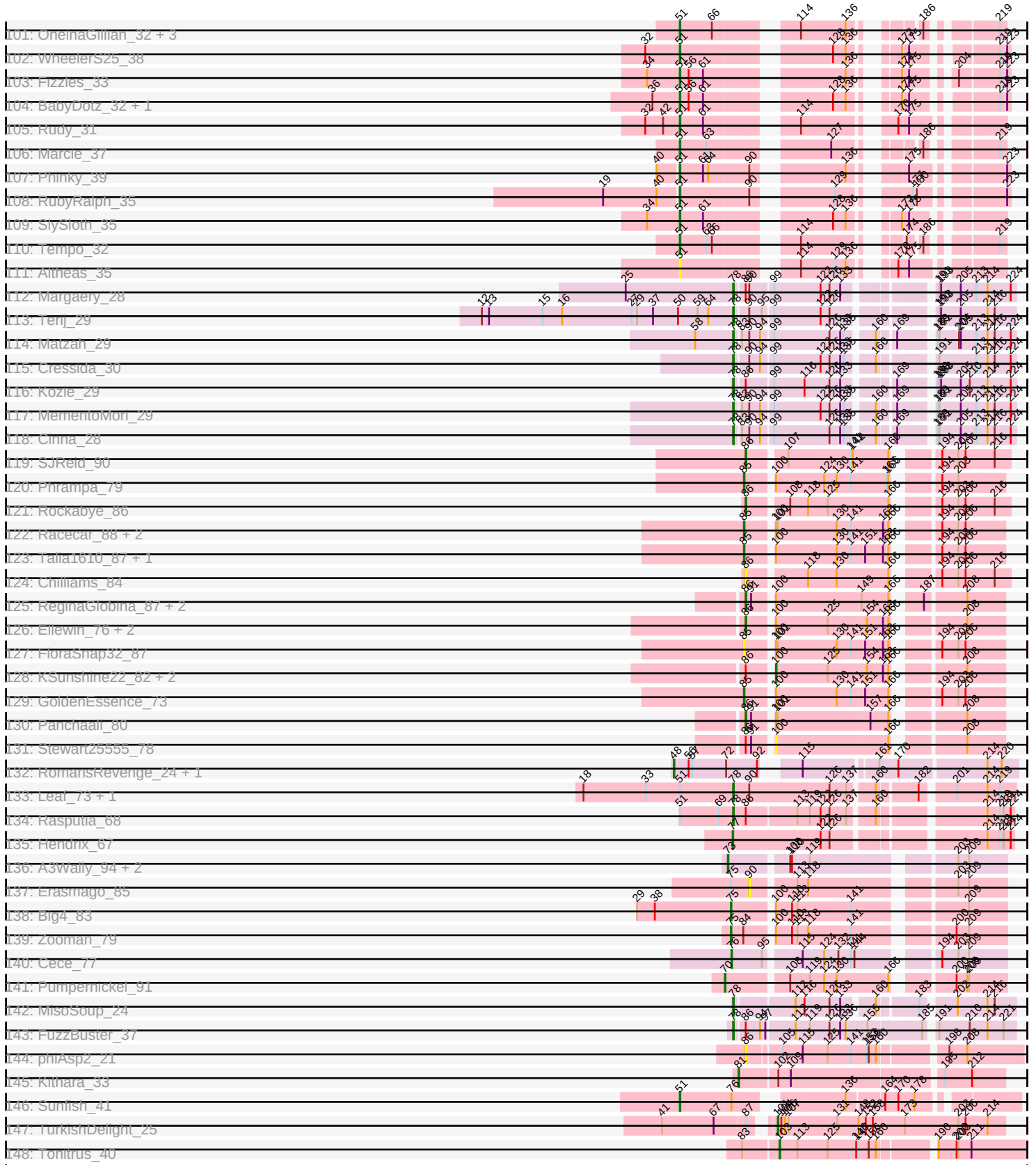
Pham 330349



Pham 330349



Pham 330349



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 330349 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 330349 has 407 members, 45 are drafts.

Phages represented in each track:

- Track 1 : Mao1_21, Mask_22, Dori_22, Sejanus_22
- Track 2 : Ranunculus_27
- Track 3 : Wilde_28, Tank_28
- Track 4 : Rizwana_27
- Track 5 : Odyssey395_35, BetaFish_33, PhuzzTulsa_31, Popstraw_31, Pointis_33
- Track 6 : Beagle_34, DogYard_33, Hive_33, Pureglobe5_35, MellowYellow_30, Kubulix_34
- Track 7 : Forrestell_30, RazzB_29
- Track 8 : RIPWilbur_31
- Track 9 : NyleyClemson_28
- Track 10 : Ollypop_31
- Track 11 : Nikan_28, Ren19_29
- Track 12 : BruhMoment_28
- Track 13 : SilentRX_28
- Track 14 : AWGoat_26
- Track 15 : Mulaychimus_26, Bernardo_26, Baloo_26, Phlyer_26, Ben11_25, TinyTerror_26, MmasiCarm_26, Briakila_26, Chalmers_26, GlenHope_27, Chentzyk_25, Audrey_26, Pipefish_26, Yahalom_26, Tydolla_26, SlippinJimmy_26, Marley1013_26, Heathcliff_26, Akoma_26, Kronus_25, Halfpint_25, Gadjet_27, Gervas_26, Morty007_26, Mortcellus_25
- Track 16 : OrangeOswald_26, Phayeta_26, Olivio_25, Yinz_26, RagingRooster_26, ChaChing_26, Athena_27, Glubnar_27, Neos5_26, Corofin_26, Obutu_26, SwainyDoc_26, Devonte_26, Chandler_26, Abinghost_26, Deenasa_26, Nozo_26, Shenandoah_26, Rita1961_26, SynergyX_26, LestyG_26, Compostia_27, Casbah_25, Philly_25, Kamiyu_26
- Track 17 : Marlia_26
- Track 18 : RomaT_26, HarveySr_26, Daisy_26
- Track 19 : JAMaL_23
- Track 20 : TP1604_19, Salete_19, Asis_19, BayC_19, BabyGotBac_19, Maih_19
- Track 21 : Mischief19_27
- Track 22 : Xkcd426_25
- Track 23 : Abt2graduatex2_20
- Track 24 : YDN12_20

- Track 25 : RainyPolka_20
- Track 26 : Purplicious_52, Grumio_53, DonTron_53, Sting_52, KingstonB_51, ColdSoup_54, Amo99_54, Stillion_52, Jollymon_53, Soos_49
- Track 27 : Makar_54, Clawz_53
- Track 28 : Mutzi_28
- Track 29 : TillyBobJoe_26, ClamChowder_28, SmokingBunny_26, Evamon_26, Gezellig_26, KimmyK_28, PinkCoffee_28, Halo3_27, Salvador_26, Twister6_28, Arri_29, VanDeWege_29, Valary_29, Togo_26, Danyall_28, Jambalaya_26, JohnPork_26, RogerDodger_29, CherryCola_29, Wizard_26, Phlop_26, Savbucketdawg_26, Portcullis_26, PullumCavea_26, Fugax_28, CoveyB_28, Nubi_26, Shinji_26, Fireball_27, Barb_28
- Track 30 : SharkTale_26, Bakery_27, Sixsevenium_27, YungMoney_28
- Track 31 : Egi03_26, Sendy_27
- Track 32 : Clown_30
- Track 33 : ChadMasterC_30, Shivanishola_31, Kewpiedoll_29, Sanjuju_28, Charming_30, Keitabear_30, Kamashten_29, Affeca_28, Barsten_30, Angelicage_28, Vivi2_32, Thing3_29, Stultus_28, Brawn1_26
- Track 34 : Tycho_29, Baumdotcom_29, LilHam_27, Ashertheman_30, Tangerine_29, Gustavo_29, SchottB_28, Saronaya_29, StorminNorm_29, Kroos_30, Kwobi_31
- Track 35 : Bibwit_29, Sedona_30
- Track 36 : BobBob_27, Nordenberg_24, Brandonk123_31, Fosterous_28, McKinley_32, Tangent_30, Rofo_30, Geodirt_27, Love_33, Galadriel_30
- Track 37 : Ribeye_30, Gaea_29, Derg_25, Bizzy_30, Flatwoods_30, Baddon_29
- Track 38 : JKSyngboy_27
- Track 39 : Ailee_28
- Track 40 : MoontowerMania_29
- Track 41 : Lennon_30, Sitar_30, Fitzgerald_28
- Track 42 : FuegoCuervo_32
- Track 43 : McCrothy_30
- Track 44 : YorkOnyx_30
- Track 45 : RiverRaider_30
- Track 46 : Jabberwocky_28
- Track 47 : Stichling_27
- Track 48 : Paries_32
- Track 49 : Leonard_28, Phinally_28
- Track 50 : Ali17_26
- Track 51 : Belphegor_28
- Track 52 : EMoore_26
- Track 53 : Hans_30, Phauci_21, MelBins_29
- Track 54 : Inspectinfecti_29
- Track 55 : Twonlo_25
- Track 56 : Tiamoceli_28, EdmundFerry_26, Chickadee_27
- Track 57 : RoadKill_25
- Track 58 : Dextert_28, Kwekel_27
- Track 59 : GTE6_27
- Track 60 : Natkenzie_30, Sampson_30, Scioto_30, Abblin_30, APunk_31
- Track 61 : BigHunkinEater_33, Zitch_31
- Track 62 : Zipp_29
- Track 63 : Delrey21_29, DoctorFroggo_29, Verity_29
- Track 64 : Tardus_31
- Track 65 : ViaConfectus_30
- Track 66 : Pumpkiney_31

- Track 67 : Lilbeanie_25
- Track 68 : Phendrix_82, GodonK_84
- Track 69 : GMA2_25
- Track 70 : Sixama_94
- Track 71 : Mareelih_94, BlueNGold_95, Forza_96, Boopy_96
- Track 72 : Honeyfin_34, Jollipop_33, Busephilis_32, Pulchra_34, Lucretia_33, BeagleBug_32, EarickHC_33, PhedwardCullen_32, Scumberland_34, Antares_33, Rockwell_32, Phorgeous_32, Jefe_33, Ramiel05_32, KaiHaiDragon_33, Onika_32, Phrancesco_33, Savannah_32, Germa_34, PiperSansNom_33, Selwyn23_34, Cranjis_34, Glorp_34, CrazyRich_32, Crisis_34, PierreOrion_33, Shotgun_32, LittleFortune_34, Yeti_33, Paschalis_32, Ganandorf_32, Hermeonysus_32, BrazzalePHS_32, Piperis_33, Kowalski_32
- Track 73 : SirFrank_32
- Track 74 : Megan_27
- Track 75 : Zapato_32
- Track 76 : Fireman_33
- Track 77 : RobsFeet_34, Metamorphoo_33
- Track 78 : Shrubaron_33
- Track 79 : NoodlelyBoi_33, ClearAsMud_35
- Track 80 : Skugga_31
- Track 81 : Merry_
- Track 82 : Sunny_
- Track 83 : Nicole72_28
- Track 84 : Teamocil_34, Gina_34
- Track 85 : Quhwah_36
- Track 86 : Jayden_34
- Track 87 : Ariadne_41, Smarties_41
- Track 88 : Tyumbra_31
- Track 89 : Mashley_31, Gazebo_32, Blab_31, AluminumJesus_31
- Track 90 : StrawberryJamm_35, Nike_33, Mentos_35, Hyperion_32, Grassboy_34, Kyva_35, Namago_33, Rowlf_29, Mila11_35, Squash_35, Zagie_33
- Track 91 : Kelcole_31
- Track 92 : Pepe25_31, Wilca_32, Spiderpig_32, BirdInFrench_32
- Track 93 : Fransoyer_35
- Track 94 : Sillytadpoles_33, Phabia_33, Jehoshaphat_35, MorillMayhem_33, Teehee_34, BaconCheese_35, Lonelysoil_32, Zhafia_35, Wheelie_32, DonaldDuck_32, Llemily_32, Casend_34, Wayne3_34
- Track 95 : ZestyBestie_31, Tissue_33, Judebell_35, FrankDeliGuy_30
- Track 96 : SallyK_34
- Track 97 : Romm_34, RobinRose_34
- Track 98 : LilCahh_32, EverythinBagel_32
- Track 99 : Quammii_31, Viceroy_32
- Track 100 : SadLad_37
- Track 101 : OneinaGillian_32, Fregley_33, CandC_31, KillerQueen_33
- Track 102 : WheelerS25_38
- Track 103 : Fizzles_33
- Track 104 : BabyDotz_32, Statler_34
- Track 105 : Rudy_31
- Track 106 : Marcie_37
- Track 107 : Phinky_39
- Track 108 : RubyRalph_35
- Track 109 : SlySloth_35
- Track 110 : Tempo_32

- Track 111 : Altheas_35
- Track 112 : Margaery_28
- Track 113 : Terij_29
- Track 114 : Matzah_29
- Track 115 : Cressida_30
- Track 116 : Kozie_29
- Track 117 : MementoMori_29
- Track 118 : Cinna_28
- Track 119 : SJReid_90
- Track 120 : Phrampa_79
- Track 121 : Rockabye_86
- Track 122 : Racecar_88, Bloom_91, Mimi_87
- Track 123 : Talia1610_87, Patbob_86
- Track 124 : Chilliams_84
- Track 125 : ReginaGlobina_87, Atuin_82, LeoJr_87
- Track 126 : Ellewin_76, BooTeria_78, DunneganBoMo_77
- Track 127 : FloraSnap32_87
- Track 128 : KSunshine22_82, Artu_80, WaddleDee_75
- Track 129 : GoldenEssence_73
- Track 130 : Panchaali_80
- Track 131 : Stewart25555_78
- Track 132 : RomansRevenge_24, Boise_24
- Track 133 : Leaf_73, Dewdrop_73
- Track 134 : Rasputia_68
- Track 135 : Hendrix_67
- Track 136 : A3Wally_94, PauloDiaboli_94, Dodo_96
- Track 137 : Erasmago_85
- Track 138 : Big4_83
- Track 139 : Zooman_79
- Track 140 : Cece_77
- Track 141 : Pumpernickel_91
- Track 142 : MisoSoup_24
- Track 143 : FuzzBuster_37
- Track 144 : phiAsp2_21
- Track 145 : Kithara_33
- Track 146 : Sunfish_41
- Track 147 : TurkishDelight_25
- Track 148 : Tonitrus_40

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

The start number called the most often in the published annotations is 83, it was called in 112 of the 362 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• APunk_31, Abblin_30, Affeca_28, Ailee_28, Ali17_26, Angelicage_28, Arri_29, Ashertheman_30, Bakery_27, Barb_28, Barsten_30, Baumdotcom_29, Belphegor_28, Bibwit_29, BigHunkinEater_33, BobBob_27, Brandonk123_31, Brawn1_26, ChadMasterC_30, Charming_30, CherryCola_29, Chickadee_27, ClamChowder_28, Clown_30, CoveyB_28, Danyall_28, Delrey21_29, Dexdert_28,

DoctorFroggo_29, Dori_22, EMoore_26, EdmundFerry_26, Egi03_26, Evamon_26, Fireball_27, Fitzgerald_28, Fosterous_28, FuegoCuervo_32, Fugax_28, GTE6_27, Galadriel_30, Geodirt_27, Gezellig_26, Gustavo_29, Halo3_27, Hans_30, Inspectinfecti_29, JAMaL_23, Jabberwocky_28, Jambalaya_26, JohnPork_26, Kamashten_29, Keitabear_30, Kewpiedoll_29, KimmyK_28, Kroos_30, Kwekel_27, Kwobi_31, Lennon_30, Leonard_28, LilHam_27, Love_33, Mao1_21, Mask_22, McCrothy_30, McKinley_32, MelBins_29, MoontowerMania_29, Mutzi_28, Natkenzie_30, Nordenberg_24, Nubi_26, Paries_32, Phauci_21, Phinally_28, Phlop_26, PinkCoffee_28, Portcullis_26, PullumCavea_26, Pumpkiney_31, RiverRaider_30, RoadKill_25, Rofo_30, RogerDodger_29, Salvador_26, Sampson_30, Sanjuju_28, Saronaya_29, Savbucketdawg_26, SchottB_28, Scioto_30, Sedona_30, Sejanus_22, Sendy_27, SharkTale_26, Shinji_26, Shivanishola_31, Sitar_30, Sixsevenium_27, SmokingBunny_26, Stichling_27, StorminNorm_29, Stultus_28, Tangent_30, Tangerine_29, Tardus_31, Thing3_29, Tiamoceli_28, TillyBobJoe_26, Togo_26, Twister6_28, Twonlo_25, Tycho_29, Valary_29, VanDeWege_29, Verity_29, ViaConlectus_30, Vivi2_32, Wizard_26, YungMoney_28, Zipp_29, Zitch_31,

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

- Antares_33, BeagleBug_32, BrazzalePHS_32, Busephilis_32, Cinna_28, ClearAsMud_35, Cranjis_34, CrazyRich_32, Crisis_34, EarickHC_33, Ganandorf_32, Germa_34, Glorp_34, Hermeonysus_32, Honeyfin_34, Jefe_33, Jollipop_33, KaiHaiDragon_33, Kowalski_32, LittleFortune_34, Lucretia_33, Matzah_29, MementoMori_29, NoodlelyBoi_33, Onika_32, Paschalis_32, PhedwardCullen_32, Phorgeous_32, Phrancesco_33, PierreOrion_33, PiperSansNom_33, Piperis_33, Pulchra_34, Quhwah_36, Ramiel05_32, Rockwell_32, Savannah_32, Scumberland_34, Selwyn23_34, Shotgun_32, SirFrank_32, Tonitrus_40, Yeti_33,

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

- A3Wally_94, AWGoat_26, Abinghost_26, Abt2graduatex2_20, Akoma_26, Altheas_35, AluminumJesus_31, Amo99_54, Ariadne_41, Artu_80, Asis_19, Athena_27, Atuin_82, Audrey_26, BabyDotz_32, BabyGotBac_19, BaconCheese_35, Baddon_29, Baloo_26, BayC_19, Beagle_34, Ben11_25, Bernardo_26, BetaFish_33, Big4_83, BirdInFrench_32, Bizzy_30, Blab_31, Bloom_91, BlueNGold_95, Boise_24, BooTeria_78, Boopy_96, Briakila_26, BruhMoment_28, CandC_31, Casbah_25, Casend_34, Cece_77, ChaChing_26, Chalmers_26, Chandler_26, Chentzyk_25, Chilliams_84, Clawz_53, ColdSoup_54, Compostia_27, Corofin_26, Cressida_30, Daisy_26, Deenasa_26, Derg_25, Devonte_26, Dewdrop_73, Dodo_96, DogYard_33, DonTron_53, DonaldDuck_32, DunneganBoMo_77, Ellewin_76, Erasmago_85, EverythinBagel_32, Fireman_33, Fizzles_33, Flatwoods_30, FloraSnap32_87, Forrestell_30, Forza_96, FrankDeliGuy_30, Fransoyer_35, Fregley_33, FuzzBuster_37, GMA2_25, Gadget_27, Gaea_29, Gazebo_32, Gervas_26, Gina_34, GlenHope_27, Glubnar_27, GodonK_84, GoldenEssence_73, Grassboy_34, Grumio_53, Halfpint_25, HarveySr_26, Heathcliff_26, Hendrix_67, Hive_33, Hyperion_32, JKSyngboy_27, Jayden_34, Jehoshaphat_35, Jollymon_53, Judebell_35, KSunshine22_82, Kamiyu_26, Kelcole_31, KillerQueen_33, KingstonB_51, Kithara_33, Kozie_29, Kronus_25, Kubulix_34, Kyva_35, Leaf_73, LeoJr_87, LestyG_26, LilCahh_32, Lilbeanie_25, Llemily_32, Lonelysoil_32, Maih_19, Makar_54, Marcie_37, Mareelih_94, Margaery_28, Marley1013_26, Marlia_26, Mashley_31, Megan_27, MellowYellow_30, Mentos_35, Merry_, Metamorphoo_33, Mila11_35, Mimi_87, Mischief19_27, MisoSoup_24, MmasiCarm_26, MorillMayhem_33, Mortcellus_25, Morty007_26, Mulaychimus_26, Namago_33, Neos5_26, Nicole72_28, Nikan_28, Nike_33, Nozo_26,

NyleyClemson_28, Obutu_26, Odyssey395_35, Olivio_25, Ollypop_31, OneinaGillian_32, OrangeOswald_26, Panchaali_80, Patbob_86, PauloDiaboli_94, Pepe25_31, Phabia_33, Phayeta_26, Phendrix_82, Philly_25, Phinky_39, Phlyer_26, Phrampa_79, PhuzzTulsa_31, Pipefish_26, Pointis_33, Popstraw_31, Pumpernickel_91, Pureglobe5_35, Purplicious_52, Quammi_31, RIPWilbur_31, Racecar_88, RagingRooster_26, RainyPolka_20, Ranunculus_27, Rasputia_68, RazzB_29, ReginaGlobina_87, Ren19_29, Ribeye_30, Rita1961_26, Rizwana_27, RobinRose_34, RobsFeet_34, Rockabye_86, RomaT_26, RomansRevenge_24, Romm_34, Rowlf_29, RubyRalph_35, Rudy_31, SJReid_90, SadLad_37, Salete_19, SallyK_34, Shenandoah_26, Shrubaron_33, SilentRX_28, Sillytadpoles_33, Sixama_94, Skugga_31, SlippinJimmy_26, SlySloth_35, Smarties_41, Soos_49, Spiderpig_32, Squash_35, Statler_34, Stewart25555_78, Stillion_52, Sting_52, StrawberryJamm_35, Sunfish_41, Sunny_, SwainyDoc_26, SynergyX_26, TP1604_19, Talia1610_87, Tank_28, Teamocil_34, Teehee_34, Tempo_32, Terij_29, TinyTerror_26, Tissue_33, TurkishDelight_25, Tydolla_26, Tyrumbra_31, Viceroy_32, WaddleDee_75, Wayne3_34, WheelerS25_38, Wheelie_32, Wilca_32, Wilde_28, Xkcd426_25, YDN12_20, Yahalom_26, Yinz_26, YorkOnyx_30, Zagie_33, Zapato_32, ZestyBestie_31, Zhafia_35, Zooman_79, phiAsp2_21,

Summary by start number:

Start 39:

- Found in 11 of 407 (2.7%) of genes in pham
- Manual Annotations of this start: 8 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle_34 (AP2), BetaFish_33 (AP2), DogYard_33 (AP2), Hive_33 (AP2), Kubulix_34 (AP2), MellowYellow_30 (AP2), Odyssey395_35 (AP2), PhuzzTulsa_31 (AP2), Pointis_33 (AP2), Popstraw_31 (AP2), Pureglobe5_35 (AP2),

Start 44:

- Found in 1 of 407 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ranunculus_27 (AP),

Start 46:

- Found in 7 of 407 (1.7%) of genes in pham
- Manual Annotations of this start: 6 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Forrestell_30 (AP2), Nikan_28 (AP2), NyleyClemson_28 (AP2), Ollypop_31 (AP2), RIPWilbur_31 (AP2), RazzB_29 (AP2), Ren19_29 (AP2),

Start 47:

- Found in 2 of 407 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_26 (AP4), SilentRX_28 (AP4),

Start 48:

- Found in 2 of 407 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 362

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Boise_24 (FT), RomansRevenge_24 (FT),

Start 50:

- Found in 2 of 407 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 362
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BruhMoment_28 (AP3),

Start 51:

- Found in 66 of 407 (16.2%) of genes in pham
- Manual Annotations of this start: 57 of 362
- Called 93.9% of time when present
- Phage (with cluster) where this start called: Altheas_35 (EG), AluminumJesus_31 (EG), BabyDotz_32 (EG), BaconCheese_35 (EG), BirdInFrench_32 (EG), Blab_31 (EG), CandC_31 (EG), Casend_34 (EG), DonaldDuck_32 (EG), EverythinBagel_32 (EG), Fizzles_33 (EG), FrankDeliGuy_30 (EG), Fransoyer_35 (EG), Fregley_33 (EG), Gazebo_32 (EG), Grassboy_34 (EG), Hyperion_32 (EG), Jehoshaphat_35 (EG), Judebell_35 (EG), Kelcole_31 (EG), KillerQueen_33 (EG), Kyva_35 (EG), LilCahh_32 (EG), Llemily_32 (EG), Lonelysoil_32 (EG), Marcie_37 (EG), Mashley_31 (EG), Mentos_35 (EG), Mila11_35 (EG), MorillMayhem_33 (EG), Namago_33 (EG), Nike_33 (EG), OneinaGillian_32 (EG), Pepe25_31 (EG), Phabia_33 (EG), Phinky_39 (EG), Quammi_31 (EG), RobinRose_34 (EG), Romm_34 (EG), Rowlf_29 (EG), RubyRalph_35 (EG), Rudy_31 (EG), SadLad_37 (EG), SallyK_34 (EG), Sillytadpoles_33 (EG), SlySloth_35 (EG), Spiderpig_32 (EG), Squash_35 (EG), Statler_34 (EG), StrawberryJamm_35 (EG), Sunfish_41 (singleton), Teehee_34 (EG), Tempo_32 (EG), Tissue_33 (EG), Viceroy_32 (EG), Wayne3_34 (EG), WheelerS25_38 (EG), Wheelie_32 (EG), Wilca_32 (EG), Zagie_33 (EG), ZestyBestie_31 (EG), Zhafia_35 (EG),

Start 52:

- Found in 3 of 407 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rizwana_27 (AP1), Tank_28 (AP1), Wilde_28 (AP1),

Start 70:

- Found in 3 of 407 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_84 (DK), Phendrix_82 (DK), Pumpernickel_91 (GD4),

Start 72:

- Found in 7 of 407 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 362
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Jayden_34 (EC),

Start 73:

- Found in 6 of 407 (1.5%) of genes in pham

- Manual Annotations of this start: 3 of 362
- Called 50.0% of time when present
- Phage (with cluster) where this start called: A3Wally_94 (GD1), Dodo_96 (GD1), PauloDiaboli_94 (GD1),

Start 74:

- Found in 5 of 407 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 362
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Gina_34 (EC), Skugga_31 (EC), Teamocil_34 (EC),

Start 75:

- Found in 3 of 407 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 362
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Big4_83 (GD2), Zooman_79 (GD2),

Start 76:

- Found in 11 of 407 (2.7%) of genes in pham
- Manual Annotations of this start: 9 of 362
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Baddon_29 (DE1), Bizzy_30 (DE1), Cece_77 (GD3), Derg_25 (DE1), Flatwoods_30 (DE1), Gaea_29 (DE1), JKSyngboy_27 (DE1), Ribeye_30 (DE1), YorkOnyx_30 (DE1),

Start 77:

- Found in 1 of 407 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hendrix_67 (GC),

Start 78:

- Found in 75 of 407 (18.4%) of genes in pham
- Manual Annotations of this start: 56 of 362
- Called 81.3% of time when present
- Phage (with cluster) where this start called: Antares_33 (EC), Ariadne_41 (EC), BeagleBug_32 (EC), BrazzalePHS_32 (EC), Busephilis_32 (EC), Cinna_28 (EI), ClearAsMud_35 (EC), Cranjis_34 (EC), CrazyRich_32 (EC), Cressida_30 (EI), Crisis_34 (EC), Dewdrop_73 (GC), EarickHC_33 (EC), Fireman_33 (EC), FuzzBuster_37 (GM), Ganandorf_32 (EC), Germa_34 (EC), Glorp_34 (EC), Hermeonysus_32 (EC), Honeyfin_34 (EC), Jefe_33 (EC), Jollipop_33 (EC), KaiHaiDragon_33 (EC), Kowalski_32 (EC), Kozié_29 (EI), Leaf_73 (GC), LittleFortune_34 (EC), Lucretia_33 (EC), Margaery_28 (EI), Matzah_29 (EI), MementoMori_29 (EI), Merry_ (EC), Metamorphoo_33 (EC), MisoSoup_24 (GM), NoodlelyBoi_33 (EC), Onika_32 (EC), Paschalis_32 (EC), PhedwardCullen_32 (EC), Phorgeous_32 (EC), Phrancesco_33 (EC), PierreOrion_33 (EC), PiperSansNom_33 (EC), Piperis_33 (EC), Pulchra_34 (EC), Quhwah_36 (EC), Ramiel05_32 (EC), Rasputia_68 (GC), RobsFeet_34 (EC), Rockwell_32 (EC), Savannah_32 (EC), Scumberland_34 (EC), Selwyn23_34 (EC), Shotgun_32 (EC), Shrubaron_33 (EC), SirFrank_32 (EC), Smarties_41 (EC), Sunny_ (EC), Terij_29 (EI), Tyumbra_31 (EC), Yeti_33 (EC), Zapato_32 (EC),

Start 79:

- Found in 1 of 407 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nicole72_28 (EC),

Start 81:

- Found in 15 of 407 (3.7%) of genes in pham
- Manual Annotations of this start: 9 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amo99_54 (CP), Clawz_53 (CP), ColdSoup_54 (CP), DonTron_53 (CP), GMA2_25 (DS), Grumio_53 (CP), Jollymon_53 (CP), KingstonB_51 (CP), Kithara_33 (singleton), Makar_54 (CP), Megan_27 (EC), Purplicious_52 (CP), Soos_49 (CP), Stillion_52 (CP), Sting_52 (CP),

Start 82:

- Found in 1 of 407 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lilbeanie_25 (DE5),

Start 83:

- Found in 165 of 407 (40.5%) of genes in pham
- Manual Annotations of this start: 112 of 362
- Called 73.9% of time when present
- Phage (with cluster) where this start called: APunk_31 (DE4), Abblin_30 (DE4), Affeca_28 (DE1), Ailee_28 (DE1), Ali17_26 (DE2), Angelicage_28 (DE1), Arri_29 (DC1), Ashertheman_30 (DE1), Bakery_27 (DC1), Barb_28 (DC1), Barsten_30 (DE1), Baumdotcom_29 (DE1), Belphegor_28 (DE2), Bibwit_29 (DE1), BigHunkinEater_33 (DE4), BobBob_27 (DE1), Brandonk123_31 (DE1), Brawn1_26 (DE1), ChadMasterC_30 (DE1), Charming_30 (DE1), CherryCola_29 (DC1), Chickadee_27 (DE3), ClamChowder_28 (DC1), Clown_30 (DC2), CoveyB_28 (DC1), Danyall_28 (DC1), Delrey21_29 (DE4), Dexdert_28 (DE3), DoctorFroggo_29 (DE4), Dori_22 (AD), EMoore_26 (DE2), EdmundFerry_26 (DE3), Egi03_26 (DC1), Evamon_26 (DC1), Fireball_27 (DC1), Fitzgerald_28 (DE1), Fosterous_28 (DE1), FuegoCuervo_32 (DE1), Fugax_28 (DC1), GTE6_27 (DE3), Galadriel_30 (DE1), Geodirt_27 (DE1), Gezellig_26 (DC1), Gustavo_29 (DE1), Halo3_27 (DC1), Hans_30 (DE2), Inspectinfecti_29 (DE2), JAMaL_23 (B4), Jabberwocky_28 (DE1), Jambalaya_26 (DC1), JohnPork_26 (DC1), Kamashten_29 (DE1), Keitabear_30 (DE1), Kewpiedoll_29 (DE1), KimmyK_28 (DC1), Kroos_30 (DE1), Kwekel_27 (DE3), Kwobi_31 (DE1), Lennon_30 (DE1), Leonard_28 (DE2), LilHam_27 (DE1), Love_33 (DE1), Mao1_21 (AD), Mask_22 (AD), McCrothy_30 (DE1), McKinley_32 (DE1), MelBins_29 (DE2), MoontowerMania_29 (DE1), Mutzi_28 (DC1), Natkenzie_30 (DE4), Nordenberg_24 (DE1), Nubi_26 (DC1), Paries_32 (DE1), Phauci_21 (DE2), Phinally_28 (DE2), Phlop_26 (DC1), PinkCoffee_28 (DC1), Portcullis_26 (DC1), PullumCavea_26 (DC1), Pumpkiney_31 (DE4), RiverRaider_30 (DE1), RoadKill_25 (DE3), Rofo_30 (DE1), RogerDodger_29 (DC1), Salvador_26 (DC1), Sampson_30 (DE4), Sanjuju_28 (DE1), Saronaya_29 (DE1), Savbucketdawg_26 (DC1), SchottB_28 (DE1), Scioto_30 (DE4), Sedona_30 (DE1), Sejanus_22 (AD), Sendy_27 (DC1), SharkTale_26 (DC1), Shinji_26 (DC1), Shivanishola_31 (DE1), Sitar_30 (DE1), Sixsevenium_27 (DC1), SmokingBunny_26 (DC1), Stichling_27 (DE1), StorminNorm_29 (DE1), Stultus_28 (DE1), Tangent_30 (DE1), Tangerine_29 (DE1), Tardus_31 (DE4), Thing3_29 (DE1), Tiamoceli_28 (DE3), TillyBobJoe_26 (DC1),

Togo_26 (DC1), Twister6_28 (DC1), Twonlo_25 (DE3), Tycho_29 (DE1), Valary_29 (DC1), VanDeWege_29 (DC1), Verity_29 (DE4), ViaConlectus_30 (DE4), Vivi2_32 (DE1), Wizard_26 (DC1), YungMoney_28 (DC1), Zipp_29 (DE4), Zitch_31 (DE4),

Start 85:

- Found in 13 of 407 (3.2%) of genes in pham
- Manual Annotations of this start: 6 of 362
- Called 61.5% of time when present
- Phage (with cluster) where this start called: Bloom_91 (FC), FloraSnap32_87 (FC), GoldenEssence_73 (FC), Mimi_87 (FC), Patbob_86 (FC), Phrampa_79 (FC), Racecar_88 (FC), Talia1610_87 (FC),

Start 86:

- Found in 30 of 407 (7.4%) of genes in pham
- Manual Annotations of this start: 12 of 362
- Called 53.3% of time when present
- Phage (with cluster) where this start called: Atuin_82 (FC), BlueNGold_95 (DS), BooTeria_78 (FC), Boopy_96 (DS), Chilliams_84 (FC), DunneganBoMo_77 (FC), Ellewin_76 (FC), Forza_96 (DS), LeoJr_87 (FC), Mareelih_94 (DS), Panchaali_80 (FC), ReginaGlobina_87 (FC), Rockabye_86 (FC), SJReid_90 (FC), Sixama_94 (DS), phiAsp2_21 (singleton),

Start 89:

- Found in 54 of 407 (13.3%) of genes in pham
- Manual Annotations of this start: 51 of 362
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost_26 (B3), Akoma_26 (B3), Athena_27 (B3), Audrey_26 (B3), Baloo_26 (B3), Ben11_25 (B3), Bernardo_26 (B3), Briakila_26 (B3), Casbah_25 (B3), ChaChing_26 (B3), Chalmers_26 (B3), Chandler_26 (B3), Chentzyk_25 (B3), Compostia_27 (B3), Corofin_26 (B3), Daisy_26 (B3), Deenasa_26 (B3), Devonte_26 (B3), Gadjet_27 (B3), Gervas_26 (B3), GlenHope_27 (B3), Glubnar_27 (B3), Halfpint_25 (B3), HarveySr_26 (B3), Heathcliff_26 (B3), Kamiyu_26 (B3), Kronus_25 (B3), LestyG_26 (B3), Marley1013_26 (B3), Marlia_26 (B3), MmasiCarm_26 (B3), Mortcellus_25 (B3), Morty007_26 (B3), Mulaychimus_26 (B3), Neos5_26 (B3), Nozo_26 (B3), Obutu_26 (B3), Olivio_25 (B3), OrangeOswald_26 (B3), Phayeta_26 (B3), Philly_25 (B3), Phlyer_26 (B3), Pipefish_26 (B3), RagingRooster_26 (B3), Rita1961_26 (B3), RomaT_26 (B3), Shenandoah_26 (B3), SlippinJimmy_26 (B3), SwainyDoc_26 (B3), SynergyX_26 (B3), TinyTerror_26 (B3), Tydolla_26 (B3), Yahalom_26 (B3), Yinz_26 (B3),

Start 90:

- Found in 15 of 407 (3.7%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Erasmago_85 (GD2),

Start 100:

- Found in 34 of 407 (8.4%) of genes in pham
- Manual Annotations of this start: 9 of 362
- Called 35.3% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_20 (BG), Artu_80 (FC), Asis_19 (BG), BabyGotBac_19 (BG), BayC_19 (BG), KSunshine22_82 (FC), Maih_19

(BG), RainyPolka_20 (BG), Salete_19 (BG), Stewart25555_78 (FC), TP1604_19 (BG), WaddleDee_75 (FC),

Start 101:

- Found in 17 of 407 (4.2%) of genes in pham
- Manual Annotations of this start: 4 of 362
- Called 23.5% of time when present
- Phage (with cluster) where this start called: Mischief19_27 (BG), TurkishDelight_25 (singleton), Xkcd426_25 (BG), YDN12_20 (BG),

Start 103:

- Found in 5 of 407 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 362
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Tonitrus_40 (singleton),

Summary by clusters:

There are 31 clusters represented in this pham: GD1, GD2, BG, FT, DK, AP2, AP3, AP1, singleton, AP4, FC, GD3, GD4, DS, EI, AD, EG, EC, AP, GC, GM, CP, DC2, DC1, DE1, DE2, DE3, DE4, DE5, B4, B3,

Info for manual annotations of cluster AD:

- Start number 83 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster AP:

- Start number 44 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 52 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 39 was manually annotated 8 times for cluster AP2.
- Start number 46 was manually annotated 6 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 50 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 47 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster B3:

- Start number 89 was manually annotated 51 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 83 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster BG:

- Start number 100 was manually annotated 8 times for cluster BG.
- Start number 101 was manually annotated 3 times for cluster BG.

Info for manual annotations of cluster CP:

- Start number 81 was manually annotated 7 times for cluster CP.

Info for manual annotations of cluster DC1:

- Start number 83 was manually annotated 32 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 83 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 76 was manually annotated 8 times for cluster DE1.
- Start number 83 was manually annotated 45 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 83 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 83 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 83 was manually annotated 13 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 82 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DK:

- Start number 70 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 86 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster EC:

- Start number 72 was manually annotated 1 time for cluster EC.
- Start number 74 was manually annotated 2 times for cluster EC.
- Start number 78 was manually annotated 44 times for cluster EC.
- Start number 79 was manually annotated 1 time for cluster EC.
- Start number 81 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EG:

- Start number 51 was manually annotated 56 times for cluster EG.

Info for manual annotations of cluster EI:

- Start number 78 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster FC:

- Start number 85 was manually annotated 6 times for cluster FC.
- Start number 86 was manually annotated 7 times for cluster FC.
- Start number 100 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster FT:

- Start number 48 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster GC:

- Start number 77 was manually annotated 1 time for cluster GC.
- Start number 78 was manually annotated 3 times for cluster GC.

Info for manual annotations of cluster GD1:

- Start number 73 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 76 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 70 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster GM:

- Start number 78 was manually annotated 2 times for cluster GM.

Gene Information:

Gene: A3Wally_94 Start: 50689, Stop: 51099, Start Num: 73

Candidate Starts for A3Wally_94:

(Start: 73 @50689 has 3 MA's), (108, 50776), (110, 50779), (119, 50809), (203, 51019), (209, 51037),

Gene: APunk_31 Start: 22352, Stop: 22783, Start Num: 83

Candidate Starts for APunk_31:

(62, 22292), (71, 22325), (Start: 83 @22352 has 112 MA's), (123, 22481), (134, 22511), (174, 22613), (176, 22619), (183, 22634), (205, 22691), (210, 22706), (219, 22754), (220, 22757),

Gene: AWGoat_26 Start: 20869, Stop: 21402, Start Num: 47

Candidate Starts for AWGoat_26:

(1, 19789), (2, 19891), (3, 20044), (4, 20128), (5, 20134), (6, 20284), (10, 20530), (35, 20833), (Start: 47 @20869 has 2 MA's), (98, 21031), (108, 21064), (123, 21115), (162, 21190), (164, 21196),

Gene: Abblin_30 Start: 22964, Stop: 23395, Start Num: 83

Candidate Starts for Abblin_30:

(62, 22904), (71, 22937), (Start: 83 @22964 has 112 MA's), (123, 23093), (134, 23123), (174, 23225), (176, 23231), (183, 23246), (205, 23303), (210, 23318), (219, 23366), (220, 23369),

Gene: Abinghost_26 Start: 19363, Stop: 19776, Start Num: 89

Candidate Starts for Abinghost_26:

(Start: 89 @19363 has 51 MA's), (113, 19438), (124, 19483), (125, 19489), (178, 19621), (219, 19747),

Gene: Abt2graduatex2_20 Start: 19744, Stop: 20124, Start Num: 100

Candidate Starts for Abt2graduatex2_20:

(Start: 100 @19744 has 9 MA's), (106, 19759), (120, 19801), (131, 19846), (168, 19936), (176, 19966), (192, 20017), (198, 20032), (206, 20059), (208, 20062),

Gene: Affeca_28 Start: 22852, Stop: 23286, Start Num: 83

Candidate Starts for Affeca_28:

(68, 22822), (Start: 83 @22852 has 112 MA's), (112, 22936), (134, 23011), (145, 23035), (174, 23113), (183, 23134), (210, 23206), (220, 23257),

Gene: Ailee_28 Start: 23561, Stop: 23995, Start Num: 83

Candidate Starts for Ailee_28:

(Start: 83 @23561 has 112 MA's), (112, 23645), (134, 23720), (145, 23744), (174, 23822), (183, 23843), (210, 23915), (220, 23966),

Gene: Akoma_26 Start: 19364, Stop: 19777, Start Num: 89

Candidate Starts for Akoma_26:

(Start: 89 @19364 has 51 MA's), (124, 19484), (125, 19490), (147, 19538), (178, 19622), (219, 19748),

Gene: Ali17_26 Start: 20746, Stop: 21177, Start Num: 83

Candidate Starts for Ali17_26:

(20, 20518), (24, 20554), (55, 20659), (71, 20719), (Start: 83 @20746 has 112 MA's), (112, 20830), (143, 20926), (174, 21007), (176, 21013), (181, 21025), (205, 21085), (213, 21109), (219, 21148), (220, 21151),

Gene: Altheas_35 Start: 22433, Stop: 22843, Start Num: 51

Candidate Starts for Altheas_35:

(Start: 51 @22433 has 57 MA's), (114, 22592), (129, 22649), (136, 22667), (170, 22706), (175, 22721),

Gene: AluminumJesus_31 Start: 21927, Stop: 22340, Start Num: 51

Candidate Starts for AluminumJesus_31:

(32, 21870), (Start: 51 @21927 has 57 MA's), (Start: 72 @21999 has 1 MA's), (114, 22086), (170, 22203), (175, 22218),

Gene: Amo99_54 Start: 29535, Stop: 29960, Start Num: 81

Candidate Starts for Amo99_54:

(Start: 81 @29535 has 9 MA's), (150, 29733), (178, 29805), (200, 29859), (207, 29874),

Gene: Angelicage_28 Start: 23269, Stop: 23703, Start Num: 83

Candidate Starts for Angelicage_28:

(68, 23239), (Start: 83 @23269 has 112 MA's), (112, 23353), (134, 23428), (145, 23452), (174, 23530), (183, 23551), (210, 23623), (220, 23674),

Gene: Antares_33 Start: 19596, Stop: 20000, Start Num: 78

Candidate Starts for Antares_33:

(Start: 78 @19596 has 56 MA's), (Start: 83 @19605 has 112 MA's), (93, 19632), (94, 19635), (122, 19731), (126, 19746), (130, 19758), (133, 19764), (160, 19806), (191, 19881), (205, 19914), (214, 19956), (224, 19995),

Gene: Ariadne_41 Start: 21286, Stop: 21693, Start Num: 78

Candidate Starts for Ariadne_41:

(Start: 78 @21286 has 56 MA's), (126, 21439), (130, 21451), (160, 21499), (189, 21571), (191, 21574), (205, 21607), (210, 21622), (214, 21649), (224, 21688),

Gene: Arri_29 Start: 18253, Stop: 18696, Start Num: 83

Candidate Starts for Arri_29:

(Start: 83 @18253 has 112 MA's), (174, 18514), (220, 18670),

Gene: Artu_80 Start: 49418, Stop: 49762, Start Num: 100

Candidate Starts for Artu_80:

(Start: 86 @49382 has 12 MA's), (Start: 100 @49418 has 9 MA's), (125, 49505), (154, 49568), (163, 49595), (166, 49604), (208, 49700),

Gene: Ashertheman_30 Start: 22146, Stop: 22580, Start Num: 83

Candidate Starts for Ashertheman_30:

(Start: 78 @22137 has 56 MA's), (Start: 83 @22146 has 112 MA's), (112, 22230), (134, 22305), (174, 22407), (183, 22428), (205, 22485), (210, 22500), (220, 22551),

Gene: Asis_19 Start: 19235, Stop: 19615, Start Num: 100

Candidate Starts for Asis_19:

(14, 18785), (41, 19067), (Start: 100 @19235 has 9 MA's), (106, 19250), (120, 19292), (131, 19337), (168, 19427), (176, 19457), (192, 19508), (198, 19523), (206, 19550), (208, 19553),

Gene: Athena_27 Start: 20126, Stop: 20539, Start Num: 89

Candidate Starts for Athena_27:

(Start: 89 @20126 has 51 MA's), (113, 20201), (124, 20246), (125, 20252), (178, 20384), (219, 20510),

Gene: Atuin_82 Start: 52030, Stop: 52410, Start Num: 86

Candidate Starts for Atuin_82:

(Start: 86 @52030 has 12 MA's), (91, 52039), (Start: 100 @52066 has 9 MA's), (149, 52207), (166, 52252), (187, 52285), (208, 52348),

Gene: Audrey_26 Start: 19363, Stop: 19776, Start Num: 89

Candidate Starts for Audrey_26:

(Start: 89 @19363 has 51 MA's), (124, 19483), (125, 19489), (147, 19537), (178, 19621), (219, 19747),

Gene: BabyDotz_32 Start: 22195, Stop: 22599, Start Num: 51

Candidate Starts for BabyDotz_32:

(36, 22150), (Start: 51 @22195 has 57 MA's), (56, 22207), (61, 22231), (128, 22405), (136, 22426), (172, 22471), (175, 22480), (219, 22585), (223, 22594),

Gene: BabyGotBac_19 Start: 19235, Stop: 19615, Start Num: 100

Candidate Starts for BabyGotBac_19:

(14, 18785), (41, 19067), (Start: 100 @19235 has 9 MA's), (106, 19250), (120, 19292), (131, 19337), (168, 19427), (176, 19457), (192, 19508), (198, 19523), (206, 19550), (208, 19553),

Gene: BaconCheese_35 Start: 23444, Stop: 23848, Start Num: 51

Candidate Starts for BaconCheese_35:

(32, 23387), (Start: 51 @23444 has 57 MA's), (61, 23480), (128, 23654), (136, 23675), (172, 23720), (175, 23729), (219, 23834), (223, 23843),

Gene: Baddon_29 Start: 22946, Stop: 23380, Start Num: 76

Candidate Starts for Baddon_29:

(Start: 76 @22946 has 9 MA's), (Start: 101 @23000 has 4 MA's), (112, 23030), (134, 23105), (174, 23207), (183, 23228), (210, 23300), (220, 23351),

Gene: Bakery_27 Start: 17507, Stop: 17950, Start Num: 83

Candidate Starts for Bakery_27:

(Start: 83 @17507 has 112 MA's), (220, 17924),

Gene: Baloo_26 Start: 19363, Stop: 19776, Start Num: 89

Candidate Starts for Baloo_26:

(Start: 89 @19363 has 51 MA's), (124, 19483), (125, 19489), (147, 19537), (178, 19621), (219, 19747),

Gene: Barb_28 Start: 18286, Stop: 18729, Start Num: 83

Candidate Starts for Barb_28:

(Start: 83 @18286 has 112 MA's), (174, 18547), (220, 18703),

Gene: Barsten_30 Start: 22693, Stop: 23127, Start Num: 83

Candidate Starts for Barsten_30:

(68, 22663), (Start: 83 @22693 has 112 MA's), (112, 22777), (134, 22852), (145, 22876), (174, 22954), (183, 22975), (210, 23047), (220, 23098),

Gene: Baumdotcom_29 Start: 21761, Stop: 22195, Start Num: 83

Candidate Starts for Baumdotcom_29:

(Start: 78 @21752 has 56 MA's), (Start: 83 @21761 has 112 MA's), (112, 21845), (134, 21920), (174, 22022), (183, 22043), (205, 22100), (210, 22115), (220, 22166),

Gene: BayC_19 Start: 19235, Stop: 19615, Start Num: 100

Candidate Starts for BayC_19:

(14, 18785), (41, 19067), (Start: 100 @19235 has 9 MA's), (106, 19250), (120, 19292), (131, 19337), (168, 19427), (176, 19457), (192, 19508), (198, 19523), (206, 19550), (208, 19553),

Gene: Beagle_34 Start: 20341, Stop: 20871, Start Num: 39

Candidate Starts for Beagle_34:

(Start: 39 @20341 has 8 MA's), (60, 20416), (112, 20545), (117, 20560), (162, 20671), (164, 20677), (204, 20779), (210, 20797), (220, 20848),

Gene: BeagleBug_32 Start: 19377, Stop: 19781, Start Num: 78

Candidate Starts for BeagleBug_32:

(Start: 78 @19377 has 56 MA's), (Start: 83 @19386 has 112 MA's), (93, 19413), (94, 19416), (122, 19512), (126, 19527), (130, 19539), (133, 19545), (160, 19587), (191, 19662), (205, 19695), (214, 19737), (224, 19776),

Gene: Belphegor_28 Start: 22298, Stop: 22729, Start Num: 83

Candidate Starts for Belphegor_28:

(65, 22247), (71, 22271), (Start: 83 @22298 has 112 MA's), (112, 22382), (143, 22478), (174, 22559), (176, 22565), (181, 22577), (205, 22637), (210, 22652), (213, 22661), (214, 22679), (219, 22700), (220, 22703),

Gene: Ben11_25 Start: 19185, Stop: 19598, Start Num: 89

Candidate Starts for Ben11_25:

(Start: 89 @19185 has 51 MA's), (124, 19305), (125, 19311), (147, 19359), (178, 19443), (219, 19569),

Gene: Bernardo_26 Start: 19363, Stop: 19776, Start Num: 89

Candidate Starts for Bernardo_26:

(Start: 89 @19363 has 51 MA's), (124, 19483), (125, 19489), (147, 19537), (178, 19621), (219, 19747),

Gene: BetaFish_33 Start: 20535, Stop: 21065, Start Num: 39

Candidate Starts for BetaFish_33:

(Start: 39 @20535 has 8 MA's), (60, 20610), (112, 20739), (162, 20865), (164, 20871), (204, 20973), (210, 20991), (220, 21042),

Gene: Bibwit_29 Start: 22880, Stop: 23314, Start Num: 83

Candidate Starts for Bibwit_29:

(Start: 83 @22880 has 112 MA's), (112, 22964), (134, 23039), (145, 23063), (174, 23141), (183, 23162), (205, 23219), (210, 23234), (220, 23285),

Gene: Big4_83 Start: 49711, Stop: 50121, Start Num: 75

Candidate Starts for Big4_83:

(29, 49555), (38, 49585), (Start: 75 @49711 has 2 MA's), (Start: 100 @49771 has 9 MA's), (110, 49798), (113, 49807), (141, 49897), (209, 50059),

Gene: BigHunkinEater_33 Start: 22135, Stop: 22566, Start Num: 83

Candidate Starts for BigHunkinEater_33:

(71, 22108), (Start: 83 @22135 has 112 MA's), (112, 22219), (123, 22264), (134, 22294), (143, 22315), (174, 22396), (176, 22402), (183, 22417), (205, 22474), (210, 22489), (219, 22537), (220, 22540),

Gene: BirdInFrench_32 Start: 20827, Stop: 21222, Start Num: 51

Candidate Starts for BirdInFrench_32:

(Start: 51 @20827 has 57 MA's), (63, 20869), (66, 20878), (114, 20986), (186, 21127), (215, 21196), (219, 21214),

Gene: Bizzy_30 Start: 22093, Stop: 22527, Start Num: 76

Candidate Starts for Bizzy_30:

(Start: 76 @22093 has 9 MA's), (Start: 101 @22147 has 4 MA's), (112, 22177), (134, 22252), (174, 22354), (183, 22375), (210, 22447), (220, 22498),

Gene: Blab_31 Start: 21852, Stop: 22265, Start Num: 51

Candidate Starts for Blab_31:

(32, 21795), (Start: 51 @21852 has 57 MA's), (Start: 72 @21924 has 1 MA's), (114, 22011), (170, 22128), (175, 22143),

Gene: Bloom_91 Start: 53421, Stop: 53804, Start Num: 85

Candidate Starts for Bloom_91:

(Start: 85 @53421 has 6 MA's), (Start: 100 @53460 has 9 MA's), (Start: 101 @53463 has 4 MA's), (130, 53562), (141, 53586), (163, 53637), (166, 53646), (194, 53700), (203, 53727), (206, 53739),

Gene: BlueNGold_95 Start: 51971, Stop: 52378, Start Num: 86

Candidate Starts for BlueNGold_95:

(Start: 85 @51968 has 6 MA's), (Start: 86 @51971 has 12 MA's), (Start: 100 @52007 has 9 MA's), (118, 52061), (122, 52082), (163, 52184), (167, 52196), (179, 52238), (184, 52247), (194, 52274), (208, 52316), (214, 52349), (216, 52361), (219, 52370),

Gene: BobBob_27 Start: 22158, Stop: 22592, Start Num: 83

Candidate Starts for BobBob_27:

(68, 22128), (Start: 83 @22158 has 112 MA's), (112, 22242), (134, 22317), (145, 22341), (174, 22419), (210, 22512), (220, 22563),

Gene: Boise_24 Start: 18816, Stop: 19310, Start Num: 48

Candidate Starts for Boise_24:

(Start: 48 @18816 has 1 MA's), (56, 18840), (57, 18843), (Start: 72 @18900 has 1 MA's), (92, 18951), (115, 18990), (161, 19101), (170, 19128), (214, 19260), (220, 19284),

Gene: BooTeria_78 Start: 49450, Stop: 49830, Start Num: 86

Candidate Starts for BooTeria_78:

(Start: 86 @49450 has 12 MA's), (Start: 100 @49486 has 9 MA's), (125, 49573), (154, 49636), (163, 49663), (166, 49672), (208, 49768),

Gene: Boopy_96 Start: 51983, Stop: 52390, Start Num: 86

Candidate Starts for Boopy_96:

(Start: 85 @51980 has 6 MA's), (Start: 86 @51983 has 12 MA's), (Start: 100 @52019 has 9 MA's),
(118, 52073), (122, 52094), (163, 52196), (167, 52208), (179, 52250), (184, 52259), (194, 52286),
(208, 52328), (214, 52361), (216, 52373), (219, 52382),

Gene: Brandonk123_31 Start: 23227, Stop: 23661, Start Num: 83

Candidate Starts for Brandonk123_31:

(68, 23197), (Start: 83 @23227 has 112 MA's), (112, 23311), (134, 23386), (145, 23410), (174, 23488),
(210, 23581), (220, 23632),

Gene: Brawn1_26 Start: 22044, Stop: 22478, Start Num: 83

Candidate Starts for Brawn1_26:

(68, 22014), (Start: 83 @22044 has 112 MA's), (112, 22128), (134, 22203), (145, 22227), (174, 22305),
(183, 22326), (210, 22398), (220, 22449),

Gene: BrazzalePHS_32 Start: 19391, Stop: 19795, Start Num: 78

Candidate Starts for BrazzalePHS_32:

(Start: 78 @19391 has 56 MA's), (Start: 83 @19400 has 112 MA's), (93, 19427), (94, 19430), (122, 19526),
(126, 19541), (130, 19553), (133, 19559), (160, 19601), (191, 19676), (205, 19709), (214, 19751),
(224, 19790),

Gene: Briakila_26 Start: 20128, Stop: 20541, Start Num: 89

Candidate Starts for Briakila_26:

(Start: 89 @20128 has 51 MA's), (124, 20248), (125, 20254), (147, 20302), (178, 20386), (219, 20512),

Gene: BruhMoment_28 Start: 19878, Stop: 20363, Start Num: 50

Candidate Starts for BruhMoment_28:

(Start: 50 @19878 has 1 MA's), (111, 20034), (125, 20088), (136, 20118), (164, 20169), (182, 20223),
(196, 20259), (220, 20346),

Gene: Busephilis_32 Start: 19326, Stop: 19730, Start Num: 78

Candidate Starts for Busephilis_32:

(Start: 78 @19326 has 56 MA's), (Start: 83 @19335 has 112 MA's), (93, 19362), (94, 19365), (122, 19461),
(126, 19476), (130, 19488), (133, 19494), (160, 19536), (191, 19611), (205, 19644), (214, 19686),
(224, 19725),

Gene: CandC_31 Start: 20527, Stop: 20922, Start Num: 51

Candidate Starts for CandC_31:

(Start: 51 @20527 has 57 MA's), (66, 20578), (114, 20686), (136, 20761), (186, 20827), (219, 20914),

Gene: Casbah_25 Start: 19215, Stop: 19628, Start Num: 89

Candidate Starts for Casbah_25:

(Start: 89 @19215 has 51 MA's), (113, 19290), (124, 19335), (125, 19341), (178, 19473), (219, 19599),

Gene: Casend_34 Start: 22604, Stop: 23008, Start Num: 51

Candidate Starts for Casend_34:

(32, 22547), (Start: 51 @22604 has 57 MA's), (61, 22640), (128, 22814), (136, 22835), (172, 22880),
(175, 22889), (219, 22994), (223, 23003),

Gene: Cece_77 Start: 45674, Stop: 46081, Start Num: 76

Candidate Starts for Cece_77:

(Start: 76 @45674 has 9 MA's), (95, 45725), (115, 45779), (124, 45815), (132, 45839), (141, 45860),
(144, 45866), (194, 45974), (203, 46001), (209, 46019),

Gene: ChaChing_26 Start: 19378, Stop: 19791, Start Num: 89

Candidate Starts for ChaChing_26:

(Start: 89 @19378 has 51 MA's), (113, 19453), (124, 19498), (125, 19504), (178, 19636), (219, 19762),

Gene: ChadMasterC_30 Start: 23885, Stop: 24319, Start Num: 83

Candidate Starts for ChadMasterC_30:

(68, 23855), (Start: 83 @23885 has 112 MA's), (112, 23969), (134, 24044), (145, 24068), (174, 24146), (183, 24167), (210, 24239), (220, 24290),

Gene: Chalmers_26 Start: 20169, Stop: 20582, Start Num: 89

Candidate Starts for Chalmers_26:

(Start: 89 @20169 has 51 MA's), (124, 20289), (125, 20295), (147, 20343), (178, 20427), (219, 20553),

Gene: Chandler_26 Start: 20137, Stop: 20550, Start Num: 89

Candidate Starts for Chandler_26:

(Start: 89 @20137 has 51 MA's), (113, 20212), (124, 20257), (125, 20263), (178, 20395), (219, 20521),

Gene: Charming_30 Start: 22736, Stop: 23170, Start Num: 83

Candidate Starts for Charming_30:

(68, 22706), (Start: 83 @22736 has 112 MA's), (112, 22820), (134, 22895), (145, 22919), (174, 22997), (183, 23018), (210, 23090), (220, 23141),

Gene: Chentzyk_25 Start: 19233, Stop: 19646, Start Num: 89

Candidate Starts for Chentzyk_25:

(Start: 89 @19233 has 51 MA's), (124, 19353), (125, 19359), (147, 19407), (178, 19491), (219, 19617),

Gene: CherryCola_29 Start: 18503, Stop: 18946, Start Num: 83

Candidate Starts for CherryCola_29:

(Start: 83 @18503 has 112 MA's), (174, 18764), (220, 18920),

Gene: Chickadee_27 Start: 19601, Stop: 20032, Start Num: 83

Candidate Starts for Chickadee_27:

(31, 19433), (Start: 83 @19601 has 112 MA's), (112, 19685), (134, 19760), (181, 19880), (188, 19895), (210, 19955), (213, 19964), (219, 20003), (220, 20006),

Gene: Chilliams_84 Start: 55298, Stop: 55687, Start Num: 86

Candidate Starts for Chilliams_84:

(Start: 86 @55298 has 12 MA's), (118, 55388), (130, 55436), (166, 55520), (194, 55574), (203, 55601), (206, 55613), (216, 55661),

Gene: Cinna_28 Start: 18809, Stop: 19213, Start Num: 78

Candidate Starts for Cinna_28:

(Start: 78 @18809 has 56 MA's), (Start: 83 @18818 has 112 MA's), (90, 18830), (94, 18848), (99, 18866), (126, 18959), (133, 18977), (135, 18983), (160, 19019), (169, 19043), (189, 19091), (191, 19094), (205, 19124), (213, 19148), (214, 19166), (216, 19178), (224, 19205),

Gene: ClamChowder_28 Start: 18286, Stop: 18729, Start Num: 83

Candidate Starts for ClamChowder_28:

(Start: 83 @18286 has 112 MA's), (174, 18547), (220, 18703),

Gene: Clawz_53 Start: 29439, Stop: 29873, Start Num: 81

Candidate Starts for Clawz_53:

(Start: 81 @29439 has 9 MA's), (107, 29511), (113, 29526), (122, 29565), (150, 29637), (156, 29643), (171, 29685), (178, 29709), (190, 29733), (200, 29763), (207, 29778),

Gene: ClearAsMud_35 Start: 20105, Stop: 20509, Start Num: 78

Candidate Starts for ClearAsMud_35:

(Start: 78 @20105 has 56 MA's), (Start: 83 @20114 has 112 MA's), (93, 20141), (94, 20144), (122, 20240), (126, 20255), (130, 20267), (133, 20273), (160, 20315), (189, 20387), (191, 20390), (205, 20423), (214, 20465), (224, 20504),

Gene: Clown_30 Start: 20227, Stop: 20670, Start Num: 83

Candidate Starts for Clown_30:

(Start: 51 @20125 has 57 MA's), (54, 20134), (Start: 83 @20227 has 112 MA's), (107, 20299), (220, 20644),

Gene: ColdSoup_54 Start: 29535, Stop: 29960, Start Num: 81

Candidate Starts for ColdSoup_54:

(Start: 81 @29535 has 9 MA's), (150, 29733), (178, 29805), (200, 29859), (207, 29874),

Gene: Compostia_27 Start: 19796, Stop: 20209, Start Num: 89

Candidate Starts for Compostia_27:

(Start: 89 @19796 has 51 MA's), (113, 19871), (124, 19916), (125, 19922), (178, 20054), (219, 20180),

Gene: Corofin_26 Start: 19388, Stop: 19801, Start Num: 89

Candidate Starts for Corofin_26:

(Start: 89 @19388 has 51 MA's), (113, 19463), (124, 19508), (125, 19514), (178, 19646), (219, 19772),

Gene: CoveyB_28 Start: 18086, Stop: 18529, Start Num: 83

Candidate Starts for CoveyB_28:

(Start: 83 @18086 has 112 MA's), (174, 18347), (220, 18503),

Gene: Cranjis_34 Start: 19551, Stop: 19955, Start Num: 78

Candidate Starts for Cranjis_34:

(Start: 78 @19551 has 56 MA's), (Start: 83 @19560 has 112 MA's), (93, 19587), (94, 19590), (122, 19686), (126, 19701), (130, 19713), (133, 19719), (160, 19761), (191, 19836), (205, 19869), (214, 19911), (224, 19950),

Gene: CrazyRich_32 Start: 19360, Stop: 19764, Start Num: 78

Candidate Starts for CrazyRich_32:

(Start: 78 @19360 has 56 MA's), (Start: 83 @19369 has 112 MA's), (93, 19396), (94, 19399), (122, 19495), (126, 19510), (130, 19522), (133, 19528), (160, 19570), (191, 19645), (205, 19678), (214, 19720), (224, 19759),

Gene: Cressida_30 Start: 18868, Stop: 19272, Start Num: 78

Candidate Starts for Cressida_30:

(Start: 78 @18868 has 56 MA's), (90, 18889), (94, 18907), (99, 18925), (122, 19003), (126, 19018), (133, 19036), (135, 19042), (160, 19078), (191, 19153), (213, 19207), (214, 19225), (216, 19237), (224, 19264),

Gene: Crisis_34 Start: 19345, Stop: 19749, Start Num: 78

Candidate Starts for Crisis_34:

(Start: 78 @19345 has 56 MA's), (Start: 83 @19354 has 112 MA's), (93, 19381), (94, 19384), (122, 19480), (126, 19495), (130, 19507), (133, 19513), (160, 19555), (191, 19630), (205, 19663), (214, 19705), (224, 19744),

Gene: Daisy_26 Start: 19384, Stop: 19797, Start Num: 89

Candidate Starts for Daisy_26:

(Start: 89 @19384 has 51 MA's), (124, 19504), (125, 19510), (178, 19642), (219, 19768),

Gene: Danyall_28 Start: 18086, Stop: 18529, Start Num: 83

Candidate Starts for Danyall_28:

(Start: 83 @18086 has 112 MA's), (174, 18347), (220, 18503),

Gene: Deenasa_26 Start: 20126, Stop: 20539, Start Num: 89

Candidate Starts for Deenasa_26:

(Start: 89 @20126 has 51 MA's), (113, 20201), (124, 20246), (125, 20252), (178, 20384), (219, 20510),

Gene: Delrey21_29 Start: 23097, Stop: 23528, Start Num: 83

Candidate Starts for Delrey21_29:

(71, 23070), (Start: 83 @23097 has 112 MA's), (112, 23181), (121, 23211), (123, 23226), (134, 23256), (143, 23277), (174, 23358), (176, 23364), (188, 23391), (205, 23436), (210, 23451), (219, 23499), (220, 23502),

Gene: Derg_25 Start: 21689, Stop: 22123, Start Num: 76

Candidate Starts for Derg_25:

(Start: 76 @21689 has 9 MA's), (Start: 101 @21743 has 4 MA's), (112, 21773), (134, 21848), (174, 21950), (183, 21971), (210, 22043), (220, 22094),

Gene: Devonte_26 Start: 19363, Stop: 19776, Start Num: 89

Candidate Starts for Devonte_26:

(Start: 89 @19363 has 51 MA's), (113, 19438), (124, 19483), (125, 19489), (178, 19621), (219, 19747),

Gene: Dewdrop_73 Start: 39864, Stop: 40274, Start Num: 78

Candidate Starts for Dewdrop_73:

(18, 39612), (33, 39717), (Start: 51 @39774 has 57 MA's), (Start: 78 @39864 has 56 MA's), (90, 39888), (126, 40017), (137, 40044), (160, 40080), (182, 40140), (201, 40182), (214, 40227), (219, 40248),

Gene: Dextert_28 Start: 20032, Stop: 20463, Start Num: 83

Candidate Starts for Dextert_28:

(Start: 83 @20032 has 112 MA's), (112, 20116), (134, 20191), (143, 20212), (181, 20311), (188, 20326), (210, 20386), (219, 20434), (220, 20437), (223, 20446),

Gene: DoctorFroggo_29 Start: 23097, Stop: 23528, Start Num: 83

Candidate Starts for DoctorFroggo_29:

(71, 23070), (Start: 83 @23097 has 112 MA's), (112, 23181), (121, 23211), (123, 23226), (134, 23256), (143, 23277), (174, 23358), (176, 23364), (188, 23391), (205, 23436), (210, 23451), (219, 23499), (220, 23502),

Gene: Dodo_96 Start: 51011, Stop: 51421, Start Num: 73

Candidate Starts for Dodo_96:

(Start: 73 @51011 has 3 MA's), (108, 51098), (110, 51101), (119, 51131), (203, 51341), (209, 51359),

Gene: DogYard_33 Start: 20229, Stop: 20759, Start Num: 39

Candidate Starts for DogYard_33:

(Start: 39 @20229 has 8 MA's), (60, 20304), (112, 20433), (117, 20448), (162, 20559), (164, 20565), (204, 20667), (210, 20685), (220, 20736),

Gene: DonTron_53 Start: 29575, Stop: 30000, Start Num: 81

Candidate Starts for DonTron_53:

(Start: 81 @29575 has 9 MA's), (150, 29773), (178, 29845), (200, 29899), (207, 29914),

Gene: DonaldDuck_32 Start: 21950, Stop: 22354, Start Num: 51

Candidate Starts for DonaldDuck_32:

(32, 21893), (Start: 51 @21950 has 57 MA's), (61, 21986), (128, 22160), (136, 22181), (172, 22226), (175, 22235), (219, 22340), (223, 22349),

Gene: Dori_22 Start: 16225, Stop: 16629, Start Num: 83

Candidate Starts for Dori_22:

(Start: 83 @16225 has 112 MA's), (113, 16303), (124, 16348), (125, 16354), (146, 16399), (156, 16420), (171, 16462), (178, 16486), (193, 16513), (198, 16525), (217, 16603),

Gene: DunneganBoMo_77 Start: 48875, Stop: 49255, Start Num: 86

Candidate Starts for DunneganBoMo_77:

(Start: 86 @48875 has 12 MA's), (Start: 100 @48911 has 9 MA's), (125, 48998), (154, 49061), (163, 49088), (166, 49097), (208, 49193),

Gene: EMoore_26 Start: 21587, Stop: 22018, Start Num: 83

Candidate Starts for EMoore_26:

(65, 21536), (71, 21560), (Start: 73 @21563 has 3 MA's), (Start: 83 @21587 has 112 MA's), (112, 21671), (123, 21716), (174, 21848), (205, 21926), (213, 21950), (219, 21989), (220, 21992),

Gene: EarickHC_33 Start: 19271, Stop: 19675, Start Num: 78

Candidate Starts for EarickHC_33:

(Start: 78 @19271 has 56 MA's), (Start: 83 @19280 has 112 MA's), (93, 19307), (94, 19310), (122, 19406), (126, 19421), (130, 19433), (133, 19439), (160, 19481), (191, 19556), (205, 19589), (214, 19631), (224, 19670),

Gene: EdmundFerry_26 Start: 19630, Stop: 20061, Start Num: 83

Candidate Starts for EdmundFerry_26:

(31, 19462), (Start: 83 @19630 has 112 MA's), (112, 19714), (134, 19789), (181, 19909), (188, 19924), (210, 19984), (213, 19993), (219, 20032), (220, 20035),

Gene: Egi03_26 Start: 17805, Stop: 18248, Start Num: 83

Candidate Starts for Egi03_26:

(21, 17589), (28, 17631), (Start: 83 @17805 has 112 MA's), (174, 18066), (220, 18222),

Gene: Ellewin_76 Start: 48470, Stop: 48850, Start Num: 86

Candidate Starts for Ellewin_76:

(Start: 86 @48470 has 12 MA's), (Start: 100 @48506 has 9 MA's), (125, 48593), (154, 48656), (163, 48683), (166, 48692), (208, 48788),

Gene: Erasmago_85 Start: 47346, Stop: 47723, Start Num: 90

Candidate Starts for Erasmago_85:

(Start: 75 @47316 has 2 MA's), (90, 47346), (113, 47412), (118, 47430), (203, 47643), (209, 47661),

Gene: Evamon_26 Start: 17572, Stop: 18015, Start Num: 83

Candidate Starts for Evamon_26:

(Start: 83 @17572 has 112 MA's), (174, 17833), (220, 17989),

Gene: EverythinBagel_32 Start: 22338, Stop: 22736, Start Num: 51

Candidate Starts for EverythinBagel_32:

(34, 22284), (Start: 51 @22338 has 57 MA's), (61, 22374), (128, 22548), (136, 22569), (172, 22614), (175, 22623),

Gene: Fireball_27 Start: 17704, Stop: 18147, Start Num: 83

Candidate Starts for Fireball_27:

(Start: 83 @17704 has 112 MA's), (174, 17965), (220, 18121),

Gene: Fireman_33 Start: 19161, Stop: 19565, Start Num: 78

Candidate Starts for Fireman_33:

(Start: 78 @19161 has 56 MA's), (Start: 86 @19176 has 12 MA's), (93, 19197), (94, 19200), (126, 19311), (130, 19323), (133, 19329), (160, 19371), (189, 19443), (191, 19446), (205, 19479), (214, 19521), (224, 19560),

Gene: Fitzgerald_28 Start: 23319, Stop: 23753, Start Num: 83

Candidate Starts for Fitzgerald_28:

(68, 23289), (Start: 83 @23319 has 112 MA's), (112, 23403), (134, 23478), (174, 23580), (183, 23601), (210, 23673), (220, 23724),

Gene: Fizzles_33 Start: 21660, Stop: 22067, Start Num: 51

Candidate Starts for Fizzles_33:

(34, 21606), (Start: 51 @21660 has 57 MA's), (56, 21672), (61, 21696), (136, 21891), (172, 21936), (175, 21945), (204, 21993), (219, 22053), (223, 22062),

Gene: Flatwoods_30 Start: 22050, Stop: 22484, Start Num: 76

Candidate Starts for Flatwoods_30:

(Start: 76 @22050 has 9 MA's), (Start: 101 @22104 has 4 MA's), (112, 22134), (134, 22209), (174, 22311), (183, 22332), (210, 22404), (220, 22455),

Gene: FloraSnap32_87 Start: 52458, Stop: 52841, Start Num: 85

Candidate Starts for FloraSnap32_87:

(Start: 85 @52458 has 6 MA's), (Start: 100 @52497 has 9 MA's), (Start: 101 @52500 has 4 MA's), (130, 52599), (141, 52623), (151, 52644), (163, 52674), (166, 52683), (194, 52737), (203, 52764), (206, 52776),

Gene: Forrestell_30 Start: 19040, Stop: 19552, Start Num: 46

Candidate Starts for Forrestell_30:

(9, 18614), (35, 19007), (Start: 46 @19040 has 6 MA's), (Start: 103 @19199 has 1 MA's), (112, 19226), (117, 19241), (162, 19352), (164, 19358), (204, 19460), (210, 19478), (220, 19529),

Gene: Forza_96 Start: 51899, Stop: 52306, Start Num: 86

Candidate Starts for Forza_96:

(Start: 85 @51896 has 6 MA's), (Start: 86 @51899 has 12 MA's), (Start: 100 @51935 has 9 MA's), (118, 51989), (122, 52010), (163, 52112), (167, 52124), (179, 52166), (184, 52175), (194, 52202), (208, 52244), (214, 52277), (216, 52289), (219, 52298),

Gene: Fosterous_28 Start: 23152, Stop: 23586, Start Num: 83

Candidate Starts for Fosterous_28:

(68, 23122), (Start: 83 @23152 has 112 MA's), (112, 23236), (134, 23311), (145, 23335), (174, 23413), (210, 23506), (220, 23557),

Gene: FrankDeliGuy_30 Start: 21910, Stop: 22314, Start Num: 51

Candidate Starts for FrankDeliGuy_30:

(Start: 51 @21910 has 57 MA's), (56, 21922), (128, 22120), (136, 22141), (172, 22186), (175, 22195), (219, 22300), (223, 22309),

Gene: Fransoyer_35 Start: 21775, Stop: 22191, Start Num: 51

Candidate Starts for Fransoyer_35:

(19, 21652), (40, 21742), (Start: 51 @21775 has 57 MA's), (90, 21886), (177, 22072), (180, 22075), (223, 22186),

Gene: Fregley_33 Start: 21097, Stop: 21492, Start Num: 51

Candidate Starts for Fregley_33:

(Start: 51 @21097 has 57 MA's), (66, 21148), (114, 21256), (136, 21331), (186, 21397), (219, 21484),

Gene: FuegoCuervo_32 Start: 21703, Stop: 22137, Start Num: 83

Candidate Starts for FuegoCuervo_32:

(68, 21664), (Start: 83 @21703 has 112 MA's), (112, 21787), (134, 21862), (174, 21964), (183, 21985), (210, 22057), (220, 22108),

Gene: Fugax_28 Start: 18286, Stop: 18729, Start Num: 83

Candidate Starts for Fugax_28:

(Start: 83 @18286 has 112 MA's), (174, 18547), (220, 18703),

Gene: FuzzBuster_37 Start: 19497, Stop: 19925, Start Num: 78

Candidate Starts for FuzzBuster_37:

(Start: 78 @19497 has 56 MA's), (Start: 86 @19509 has 12 MA's), (94, 19533), (97, 19542), (112, 19587), (119, 19611), (126, 19644), (133, 19662), (136, 19671), (155, 19707), (185, 19791), (191, 19803), (210, 19851), (214, 19878), (221, 19905),

Gene: GMA2_25 Start: 22256, Stop: 22675, Start Num: 81

Candidate Starts for GMA2_25:

(Start: 81 @22256 has 9 MA's), (Start: 86 @22268 has 12 MA's), (107, 22325), (138, 22424), (163, 22481), (179, 22535), (184, 22544), (203, 22595), (216, 22655),

Gene: GTE6_27 Start: 20119, Stop: 20550, Start Num: 83

Candidate Starts for GTE6_27:

(31, 19951), (Start: 83 @20119 has 112 MA's), (112, 20203), (134, 20278), (181, 20398), (188, 20413), (213, 20482), (219, 20521), (220, 20524),

Gene: Gadget_27 Start: 19373, Stop: 19786, Start Num: 89

Candidate Starts for Gadget_27:

(Start: 89 @19373 has 51 MA's), (124, 19493), (125, 19499), (147, 19547), (178, 19631), (219, 19757),

Gene: Gaea_29 Start: 21701, Stop: 22135, Start Num: 76

Candidate Starts for Gaea_29:

(Start: 76 @21701 has 9 MA's), (Start: 101 @21755 has 4 MA's), (112, 21785), (134, 21860), (174, 21962), (183, 21983), (210, 22055), (220, 22106),

Gene: Galadriel_30 Start: 23641, Stop: 24075, Start Num: 83

Candidate Starts for Galadriel_30:

(68, 23611), (Start: 83 @23641 has 112 MA's), (112, 23725), (134, 23800), (145, 23824), (174, 23902), (210, 23995), (220, 24046),

Gene: Ganandorf_32 Start: 19407, Stop: 19811, Start Num: 78

Candidate Starts for Ganandorf_32:

(Start: 78 @19407 has 56 MA's), (Start: 83 @19416 has 112 MA's), (93, 19443), (94, 19446), (122, 19542), (126, 19557), (130, 19569), (133, 19575), (160, 19617), (191, 19692), (205, 19725), (214, 19767), (224, 19806),

Gene: Gazebo_32 Start: 22390, Stop: 22803, Start Num: 51

Candidate Starts for Gazebo_32:

(32, 22333), (Start: 51 @22390 has 57 MA's), (Start: 72 @22462 has 1 MA's), (114, 22549), (170, 22666), (175, 22681),

Gene: Geodirt_27 Start: 22624, Stop: 23058, Start Num: 83

Candidate Starts for Geodirt_27:

(68, 22594), (Start: 83 @22624 has 112 MA's), (112, 22708), (134, 22783), (145, 22807), (174, 22885), (210, 22978), (220, 23029),

Gene: Germa_34 Start: 19236, Stop: 19640, Start Num: 78

Candidate Starts for Germa_34:

(Start: 78 @19236 has 56 MA's), (Start: 83 @19245 has 112 MA's), (93, 19272), (94, 19275), (122, 19371), (126, 19386), (130, 19398), (133, 19404), (160, 19446), (191, 19521), (205, 19554), (214, 19596), (224, 19635),

Gene: Gervas_26 Start: 19347, Stop: 19760, Start Num: 89

Candidate Starts for Gervas_26:

(Start: 89 @19347 has 51 MA's), (124, 19467), (125, 19473), (147, 19521), (178, 19605), (219, 19731),

Gene: Gezellig_26 Start: 17704, Stop: 18147, Start Num: 83

Candidate Starts for Gezellig_26:

(Start: 83 @17704 has 112 MA's), (174, 17965), (220, 18121),

Gene: Gina_34 Start: 19178, Stop: 19588, Start Num: 74

Candidate Starts for Gina_34:

(Start: 74 @19178 has 2 MA's), (Start: 78 @19184 has 56 MA's), (Start: 86 @19199 has 12 MA's), (126, 19334), (130, 19346), (160, 19394), (189, 19466), (191, 19469), (205, 19502), (210, 19517), (214, 19544), (224, 19583),

Gene: GlenHope_27 Start: 19356, Stop: 19769, Start Num: 89

Candidate Starts for GlenHope_27:

(Start: 89 @19356 has 51 MA's), (124, 19476), (125, 19482), (147, 19530), (178, 19614), (219, 19740),

Gene: Glorp_34 Start: 19408, Stop: 19812, Start Num: 78

Candidate Starts for Glorp_34:

(Start: 78 @19408 has 56 MA's), (Start: 83 @19417 has 112 MA's), (93, 19444), (94, 19447), (122, 19543), (126, 19558), (130, 19570), (133, 19576), (160, 19618), (191, 19693), (205, 19726), (214, 19768), (224, 19807),

Gene: Glubnar_27 Start: 19368, Stop: 19781, Start Num: 89

Candidate Starts for Glubnar_27:

(Start: 89 @19368 has 51 MA's), (113, 19443), (124, 19488), (125, 19494), (178, 19626), (219, 19752),

Gene: GodonK_84 Start: 43620, Stop: 44033, Start Num: 70

Candidate Starts for GodonK_84:

(Start: 70 @43620 has 3 MA's), (90, 43653), (121, 43746), (125, 43770), (139, 43803), (152, 43830), (155, 43833), (187, 43905), (194, 43926), (206, 43965), (220, 44025),

Gene: GoldenEssence_73 Start: 47214, Stop: 47597, Start Num: 85

Candidate Starts for GoldenEssence_73:

(Start: 85 @47214 has 6 MA's), (Start: 100 @47253 has 9 MA's), (130, 47355), (141, 47379), (151, 47400), (166, 47439), (194, 47493), (203, 47520), (206, 47532),

Gene: Grassboy_34 Start: 22564, Stop: 22977, Start Num: 51

Candidate Starts for Grassboy_34:

(32, 22507), (Start: 51 @22564 has 57 MA's), (114, 22723), (170, 22840), (175, 22855),

Gene: Grumio_53 Start: 29013, Stop: 29438, Start Num: 81

Candidate Starts for Grumio_53:

(Start: 81 @29013 has 9 MA's), (150, 29211), (178, 29283), (200, 29337), (207, 29352),

Gene: Gustavo_29 Start: 21853, Stop: 22287, Start Num: 83

Candidate Starts for Gustavo_29:

(Start: 78 @21844 has 56 MA's), (Start: 83 @21853 has 112 MA's), (112, 21937), (134, 22012), (174, 22114), (183, 22135), (205, 22192), (210, 22207), (220, 22258),

Gene: Halfpint_25 Start: 19188, Stop: 19601, Start Num: 89

Candidate Starts for Halfpint_25:

(Start: 89 @19188 has 51 MA's), (124, 19308), (125, 19314), (147, 19362), (178, 19446), (219, 19572),

Gene: Halo3_27 Start: 17997, Stop: 18440, Start Num: 83

Candidate Starts for Halo3_27:

(Start: 83 @17997 has 112 MA's), (174, 18258), (220, 18414),

Gene: Hans_30 Start: 21408, Stop: 21839, Start Num: 83

Candidate Starts for Hans_30:

(24, 21216), (71, 21381), (Start: 83 @21408 has 112 MA's), (112, 21492), (143, 21588), (174, 21669), (176, 21675), (181, 21687), (205, 21747), (213, 21771), (219, 21810), (220, 21813),

Gene: HarveySr_26 Start: 19343, Stop: 19756, Start Num: 89

Candidate Starts for HarveySr_26:

(Start: 89 @19343 has 51 MA's), (124, 19463), (125, 19469), (178, 19601), (219, 19727),

Gene: Heathcliff_26 Start: 19325, Stop: 19738, Start Num: 89

Candidate Starts for Heathcliff_26:

(Start: 89 @19325 has 51 MA's), (124, 19445), (125, 19451), (147, 19499), (178, 19583), (219, 19709),

Gene: Hendrix_67 Start: 39133, Stop: 39537, Start Num: 77

Candidate Starts for Hendrix_67:

(Start: 77 @39133 has 1 MA's), (122, 39268), (126, 39283), (214, 39493), (219, 39514), (221, 39520), (224, 39532),

Gene: Hermeonysus_32 Start: 19280, Stop: 19684, Start Num: 78

Candidate Starts for Hermeonysus_32:

(Start: 78 @19280 has 56 MA's), (Start: 83 @19289 has 112 MA's), (93, 19316), (94, 19319), (122, 19415), (126, 19430), (130, 19442), (133, 19448), (160, 19490), (191, 19565), (205, 19598), (214, 19640), (224, 19679),

Gene: Hive_33 Start: 20416, Stop: 20946, Start Num: 39

Candidate Starts for Hive_33:

(Start: 39 @20416 has 8 MA's), (60, 20491), (112, 20620), (117, 20635), (162, 20746), (164, 20752), (204, 20854), (210, 20872), (220, 20923),

Gene: Honeyfin_34 Start: 19595, Stop: 19999, Start Num: 78

Candidate Starts for Honeyfin_34:

(Start: 78 @19595 has 56 MA's), (Start: 83 @19604 has 112 MA's), (93, 19631), (94, 19634), (122, 19730), (126, 19745), (130, 19757), (133, 19763), (160, 19805), (191, 19880), (205, 19913), (214, 19955), (224, 19994),

Gene: Hyperion_32 Start: 22347, Stop: 22760, Start Num: 51

Candidate Starts for Hyperion_32:

(32, 22290), (Start: 51 @22347 has 57 MA's), (114, 22506), (170, 22623), (175, 22638),

Gene: Inspectinfecti_29 Start: 21832, Stop: 22263, Start Num: 83

Candidate Starts for Inspectinfecti_29:

(20, 21604), (24, 21640), (71, 21805), (Start: 83 @21832 has 112 MA's), (112, 21916), (143, 22012), (174, 22093), (176, 22099), (181, 22111), (205, 22171), (213, 22195), (219, 22234), (220, 22237),

Gene: JAMaL_23 Start: 19500, Stop: 19913, Start Num: 83

Candidate Starts for JAMaL_23:

(Start: 83 @19500 has 112 MA's), (98, 19539), (125, 19626), (156, 19689), (160, 19701), (171, 19731), (225, 19905),

Gene: JKSyngboy_27 Start: 22410, Stop: 22844, Start Num: 76

Candidate Starts for JKSyngboy_27:

(Start: 76 @22410 has 9 MA's), (Start: 101 @22464 has 4 MA's), (112, 22494), (121, 22524), (134, 22569), (174, 22671), (183, 22692), (210, 22764), (220, 22815),

Gene: Jabberwocky_28 Start: 23780, Stop: 24214, Start Num: 83

Candidate Starts for Jabberwocky_28:

(68, 23750), (Start: 83 @23780 has 112 MA's), (112, 23864), (134, 23939), (145, 23963), (174, 24041), (183, 24062), (210, 24134), (220, 24185),

Gene: Jambalaya_26 Start: 17351, Stop: 17794, Start Num: 83

Candidate Starts for Jambalaya_26:

(Start: 83 @17351 has 112 MA's), (174, 17612), (220, 17768),

Gene: Jayden_34 Start: 19325, Stop: 19741, Start Num: 72

Candidate Starts for Jayden_34:

(Start: 72 @19325 has 1 MA's), (Start: 74 @19331 has 2 MA's), (126, 19487), (130, 19499), (133, 19505), (160, 19547), (189, 19619), (191, 19622), (205, 19655), (210, 19670), (214, 19697), (224, 19736),

Gene: Jefe_33 Start: 19332, Stop: 19736, Start Num: 78

Candidate Starts for Jefe_33:

(Start: 78 @19332 has 56 MA's), (Start: 83 @19341 has 112 MA's), (93, 19368), (94, 19371), (122, 19467), (126, 19482), (130, 19494), (133, 19500), (160, 19542), (191, 19617), (205, 19650), (214, 19692), (224, 19731),

Gene: Jehoshaphat_35 Start: 22869, Stop: 23273, Start Num: 51

Candidate Starts for Jehoshaphat_35:

(32, 22812), (Start: 51 @22869 has 57 MA's), (61, 22905), (128, 23079), (136, 23100), (172, 23145), (175, 23154), (219, 23259), (223, 23268),

Gene: JohnPork_26 Start: 17599, Stop: 18042, Start Num: 83

Candidate Starts for JohnPork_26:

(Start: 83 @17599 has 112 MA's), (174, 17860), (220, 18016),

Gene: Jollipop_33 Start: 19677, Stop: 20081, Start Num: 78

Candidate Starts for Jollipop_33:

(Start: 78 @19677 has 56 MA's), (Start: 83 @19686 has 112 MA's), (93, 19713), (94, 19716), (122, 19812), (126, 19827), (130, 19839), (133, 19845), (160, 19887), (191, 19962), (205, 19995), (214, 20037), (224, 20076),

Gene: Jollymon_53 Start: 29535, Stop: 29960, Start Num: 81

Candidate Starts for Jollymon_53:

(Start: 81 @29535 has 9 MA's), (150, 29733), (178, 29805), (200, 29859), (207, 29874),

Gene: Judebell_35 Start: 22375, Stop: 22779, Start Num: 51

Candidate Starts for Judebell_35:

(Start: 51 @22375 has 57 MA's), (56, 22387), (128, 22585), (136, 22606), (172, 22651), (175, 22660), (219, 22765), (223, 22774),

Gene: KSunshine22_82 Start: 50145, Stop: 50489, Start Num: 100

Candidate Starts for KSunshine22_82:

(Start: 86 @50109 has 12 MA's), (Start: 100 @50145 has 9 MA's), (125, 50232), (154, 50295), (163, 50322), (166, 50331), (208, 50427),

Gene: KaiHaiDragon_33 Start: 19271, Stop: 19675, Start Num: 78

Candidate Starts for KaiHaiDragon_33:

(Start: 78 @19271 has 56 MA's), (Start: 83 @19280 has 112 MA's), (93, 19307), (94, 19310), (122, 19406), (126, 19421), (130, 19433), (133, 19439), (160, 19481), (191, 19556), (205, 19589), (214, 19631), (224, 19670),

Gene: Kamashten_29 Start: 23229, Stop: 23663, Start Num: 83

Candidate Starts for Kamashten_29:

(68, 23199), (Start: 83 @23229 has 112 MA's), (112, 23313), (134, 23388), (145, 23412), (174, 23490), (183, 23511), (210, 23583), (220, 23634),

Gene: Kamiyu_26 Start: 19332, Stop: 19745, Start Num: 89

Candidate Starts for Kamiyu_26:

(Start: 89 @19332 has 51 MA's), (113, 19407), (124, 19452), (125, 19458), (178, 19590), (219, 19716),

Gene: Keitabear_30 Start: 24585, Stop: 25019, Start Num: 83

Candidate Starts for Keitabear_30:

(68, 24555), (Start: 83 @24585 has 112 MA's), (112, 24669), (134, 24744), (145, 24768), (174, 24846), (183, 24867), (210, 24939), (220, 24990),

Gene: Kelcole_31 Start: 20979, Stop: 21374, Start Num: 51

Candidate Starts for Kelcole_31:

(Start: 51 @20979 has 57 MA's), (63, 21021), (66, 21030), (114, 21138), (170, 21252), (186, 21279), (219, 21366),

Gene: Kewpiedoll_29 Start: 22426, Stop: 22860, Start Num: 83

Candidate Starts for Kewpiedoll_29:

(68, 22396), (Start: 83 @22426 has 112 MA's), (112, 22510), (134, 22585), (145, 22609), (174, 22687), (183, 22708), (210, 22780), (220, 22831),

Gene: KillerQueen_33 Start: 20774, Stop: 21169, Start Num: 51

Candidate Starts for KillerQueen_33:

(Start: 51 @20774 has 57 MA's), (66, 20825), (114, 20933), (136, 21008), (186, 21074), (219, 21161),

Gene: KimmyK_28 Start: 18286, Stop: 18729, Start Num: 83

Candidate Starts for KimmyK_28:

(Start: 83 @18286 has 112 MA's), (174, 18547), (220, 18703),

Gene: KingstonB_51 Start: 29013, Stop: 29438, Start Num: 81

Candidate Starts for KingstonB_51:

(Start: 81 @29013 has 9 MA's), (150, 29211), (178, 29283), (200, 29337), (207, 29352),

Gene: Kithara_33 Start: 23575, Stop: 23991, Start Num: 81

Candidate Starts for Kithara_33:

(Start: 81 @23575 has 9 MA's), (102, 23635), (109, 23656), (195, 23896), (212, 23938),

Gene: Kowalski_32 Start: 19387, Stop: 19791, Start Num: 78

Candidate Starts for Kowalski_32:

(Start: 78 @19387 has 56 MA's), (Start: 83 @19396 has 112 MA's), (93, 19423), (94, 19426), (122, 19522), (126, 19537), (130, 19549), (133, 19555), (160, 19597), (191, 19672), (205, 19705), (214, 19747), (224, 19786),

Gene: Kozie_29 Start: 19096, Stop: 19503, Start Num: 78

Candidate Starts for Kozie_29:

(Start: 78 @19096 has 56 MA's), (Start: 86 @19111 has 12 MA's), (99, 19153), (116, 19204), (126, 19246), (133, 19264), (169, 19330), (189, 19378), (191, 19381), (193, 19384), (205, 19414), (210, 19429), (214, 19456), (224, 19495),

Gene: Kronus_25 Start: 19946, Stop: 20359, Start Num: 89

Candidate Starts for Kronus_25:

(Start: 89 @19946 has 51 MA's), (124, 20066), (125, 20072), (147, 20120), (178, 20204), (219, 20330),

Gene: Kroos_30 Start: 22606, Stop: 23040, Start Num: 83

Candidate Starts for Kroos_30:

(Start: 78 @22597 has 56 MA's), (Start: 83 @22606 has 112 MA's), (112, 22690), (134, 22765), (174, 22867), (183, 22888), (205, 22945), (210, 22960), (220, 23011),

Gene: Kubulix_34 Start: 20525, Stop: 21055, Start Num: 39

Candidate Starts for Kubulix_34:

(Start: 39 @20525 has 8 MA's), (60, 20600), (112, 20729), (117, 20744), (162, 20855), (164, 20861), (204, 20963), (210, 20981), (220, 21032),

Gene: Kwekel_27 Start: 19551, Stop: 19982, Start Num: 83

Candidate Starts for Kwekel_27:

(Start: 83 @19551 has 112 MA's), (112, 19635), (134, 19710), (143, 19731), (181, 19830), (188, 19845), (210, 19905), (219, 19953), (220, 19956), (223, 19965),

Gene: Kwobi_31 Start: 22592, Stop: 23026, Start Num: 83

Candidate Starts for Kwobi_31:

(Start: 78 @22583 has 56 MA's), (Start: 83 @22592 has 112 MA's), (112, 22676), (134, 22751), (174, 22853), (183, 22874), (205, 22931), (210, 22946), (220, 22997),

Gene: Kyva_35 Start: 22599, Stop: 23012, Start Num: 51

Candidate Starts for Kyva_35:

(32, 22542), (Start: 51 @22599 has 57 MA's), (114, 22758), (170, 22875), (175, 22890),

Gene: Leaf_73 Start: 39864, Stop: 40274, Start Num: 78

Candidate Starts for Leaf_73:

(18, 39612), (33, 39717), (Start: 51 @39774 has 57 MA's), (Start: 78 @39864 has 56 MA's), (90, 39888), (126, 40017), (137, 40044), (160, 40080), (182, 40140), (201, 40182), (214, 40227), (219, 40248),

Gene: Lennon_30 Start: 24387, Stop: 24821, Start Num: 83

Candidate Starts for Lennon_30:

(68, 24357), (Start: 83 @24387 has 112 MA's), (112, 24471), (134, 24546), (174, 24648), (183, 24669), (210, 24741), (220, 24792),

Gene: LeoJr_87 Start: 52158, Stop: 52538, Start Num: 86

Candidate Starts for LeoJr_87:

(Start: 86 @52158 has 12 MA's), (91, 52167), (Start: 100 @52194 has 9 MA's), (149, 52335), (166, 52380), (187, 52413), (208, 52476),

Gene: Leonard_28 Start: 21406, Stop: 21837, Start Num: 83

Candidate Starts for Leonard_28:

(20, 21178), (24, 21214), (71, 21379), (Start: 73 @21382 has 3 MA's), (Start: 83 @21406 has 112 MA's), (112, 21490), (143, 21586), (174, 21667), (176, 21673), (181, 21685), (205, 21745), (213, 21769), (219, 21808), (220, 21811),

Gene: LestyG_26 Start: 19367, Stop: 19780, Start Num: 89

Candidate Starts for LestyG_26:

(Start: 89 @19367 has 51 MA's), (113, 19442), (124, 19487), (125, 19493), (178, 19625), (219, 19751),

Gene: LilCahh_32 Start: 21966, Stop: 22364, Start Num: 51

Candidate Starts for LilCahh_32:

(34, 21912), (Start: 51 @21966 has 57 MA's), (61, 22002), (128, 22176), (136, 22197), (172, 22242), (175, 22251),

Gene: LilHam_27 Start: 21186, Stop: 21620, Start Num: 83

Candidate Starts for LilHam_27:

(Start: 78 @21177 has 56 MA's), (Start: 83 @21186 has 112 MA's), (112, 21270), (134, 21345), (174, 21447), (183, 21468), (205, 21525), (210, 21540), (220, 21591),

Gene: Lilbeanie_25 Start: 16498, Stop: 16914, Start Num: 82

Candidate Starts for Lilbeanie_25:

(Start: 82 @16498 has 1 MA's), (112, 16585), (190, 16795), (220, 16888),

Gene: LittleFortune_34 Start: 19637, Stop: 20041, Start Num: 78

Candidate Starts for LittleFortune_34:

(Start: 78 @19637 has 56 MA's), (Start: 83 @19646 has 112 MA's), (93, 19673), (94, 19676), (122, 19772), (126, 19787), (130, 19799), (133, 19805), (160, 19847), (191, 19922), (205, 19955), (214, 19997), (224, 20036),

Gene: Llemily_32 Start: 21645, Stop: 22049, Start Num: 51

Candidate Starts for Llemily_32:

(32, 21588), (Start: 51 @21645 has 57 MA's), (61, 21681), (128, 21855), (136, 21876), (172, 21921), (175, 21930), (219, 22035), (223, 22044),

Gene: Lonelysoil_32 Start: 21890, Stop: 22294, Start Num: 51

Candidate Starts for Lonelysoil_32:

(32, 21833), (Start: 51 @21890 has 57 MA's), (61, 21926), (128, 22100), (136, 22121), (172, 22166), (175, 22175), (219, 22280), (223, 22289),

Gene: Love_33 Start: 24151, Stop: 24585, Start Num: 83

Candidate Starts for Love_33:

(68, 24121), (Start: 83 @24151 has 112 MA's), (112, 24235), (134, 24310), (145, 24334), (174, 24412), (210, 24505), (220, 24556),

Gene: Lucretia_33 Start: 19324, Stop: 19728, Start Num: 78

Candidate Starts for Lucretia_33:

(Start: 78 @19324 has 56 MA's), (Start: 83 @19333 has 112 MA's), (93, 19360), (94, 19363), (122, 19459), (126, 19474), (130, 19486), (133, 19492), (160, 19534), (191, 19609), (205, 19642), (214, 19684), (224, 19723),

Gene: Maih_19 Start: 19234, Stop: 19614, Start Num: 100

Candidate Starts for Maih_19:

(14, 18784), (41, 19066), (Start: 100 @19234 has 9 MA's), (106, 19249), (120, 19291), (131, 19336), (168, 19426), (176, 19456), (192, 19507), (198, 19522), (206, 19549), (208, 19552),

Gene: Makar_54 Start: 29466, Stop: 29900, Start Num: 81

Candidate Starts for Makar_54:

(Start: 81 @29466 has 9 MA's), (107, 29538), (113, 29553), (122, 29592), (150, 29664), (156, 29670), (171, 29712), (178, 29736), (190, 29760), (200, 29790), (207, 29805),

Gene: Mao1_21 Start: 16621, Stop: 17025, Start Num: 83

Candidate Starts for Mao1_21:

(Start: 83 @16621 has 112 MA's), (113, 16699), (124, 16744), (125, 16750), (146, 16795), (156, 16816), (171, 16858), (178, 16882), (193, 16909), (198, 16921), (217, 16999),

Gene: Marcie_37 Start: 21635, Stop: 22030, Start Num: 51

Candidate Starts for Marcie_37:

(Start: 51 @21635 has 57 MA's), (63, 21677), (127, 21845), (186, 21935), (219, 22022),

Gene: Mareelih_94 Start: 51401, Stop: 51808, Start Num: 86

Candidate Starts for Mareelih_94:

(Start: 85 @51398 has 6 MA's), (Start: 86 @51401 has 12 MA's), (Start: 100 @51437 has 9 MA's), (118, 51491), (122, 51512), (163, 51614), (167, 51626), (179, 51668), (184, 51677), (194, 51704), (208, 51746), (214, 51779), (216, 51791), (219, 51800),

Gene: Margaery_28 Start: 18750, Stop: 19154, Start Num: 78

Candidate Starts for Margaery_28:

(25, 18570), (Start: 78 @18750 has 56 MA's), (Start: 86 @18765 has 12 MA's), (90, 18771), (99, 18807), (122, 18885), (126, 18900), (133, 18918), (191, 19035), (193, 19038), (205, 19065), (213, 19089), (214, 19107), (224, 19146),

Gene: Marley1013_26 Start: 20148, Stop: 20561, Start Num: 89

Candidate Starts for Marley1013_26:

(Start: 89 @20148 has 51 MA's), (124, 20268), (125, 20274), (147, 20322), (178, 20406), (219, 20532),

Gene: Marlia_26 Start: 19347, Stop: 19760, Start Num: 89

Candidate Starts for Marlia_26:

(Start: 89 @19347 has 51 MA's), (113, 19422), (124, 19467), (125, 19473), (147, 19521), (178, 19605), (219, 19731),

Gene: Mashley_31 Start: 22162, Stop: 22575, Start Num: 51

Candidate Starts for Mashley_31:

(32, 22105), (Start: 51 @22162 has 57 MA's), (Start: 72 @22234 has 1 MA's), (114, 22321), (170, 22438), (175, 22453),

Gene: Mask_22 Start: 16622, Stop: 17026, Start Num: 83

Candidate Starts for Mask_22:

(Start: 83 @16622 has 112 MA's), (113, 16700), (124, 16745), (125, 16751), (146, 16796), (156, 16817), (171, 16859), (178, 16883), (193, 16910), (198, 16922), (217, 17000),

Gene: Matzah_29 Start: 18786, Stop: 19190, Start Num: 78

Candidate Starts for Matzah_29:

(58, 18723), (Start: 78 @18786 has 56 MA's), (Start: 83 @18795 has 112 MA's), (90, 18807), (94, 18825), (99, 18843), (126, 18936), (133, 18954), (135, 18960), (160, 18996), (169, 19020), (189, 19068), (191, 19071), (204, 19098), (205, 19101), (213, 19125), (214, 19143), (216, 19155), (224, 19182),

Gene: McCrothy_30 Start: 23959, Stop: 24393, Start Num: 83

Candidate Starts for McCrothy_30:

(68, 23920), (Start: 83 @23959 has 112 MA's), (112, 24043), (174, 24220), (183, 24241), (210, 24313), (220, 24364),

Gene: McKinley_32 Start: 24183, Stop: 24617, Start Num: 83

Candidate Starts for McKinley_32:

(68, 24153), (Start: 83 @24183 has 112 MA's), (112, 24267), (134, 24342), (145, 24366), (174, 24444), (210, 24537), (220, 24588),

Gene: Megan_27 Start: 20591, Stop: 20995, Start Num: 81

Candidate Starts for Megan_27:

(17, 20315), (Start: 81 @20591 has 9 MA's), (93, 20624), (122, 20723), (126, 20738), (133, 20756), (160, 20798), (169, 20822), (191, 20873), (193, 20876), (205, 20906), (210, 20921), (213, 20930), (214, 20948), (216, 20960), (219, 20969), (221, 20975), (224, 20987),

Gene: MelBins_29 Start: 21614, Stop: 22045, Start Num: 83

Candidate Starts for MelBins_29:

(24, 21422), (71, 21587), (Start: 83 @21614 has 112 MA's), (112, 21698), (143, 21794), (174, 21875), (176, 21881), (181, 21893), (205, 21953), (213, 21977), (219, 22016), (220, 22019),

Gene: MellowYellow_30 Start: 19076, Stop: 19606, Start Num: 39

Candidate Starts for MellowYellow_30:

(Start: 39 @19076 has 8 MA's), (60, 19151), (112, 19280), (117, 19295), (162, 19406), (164, 19412), (204, 19514), (210, 19532), (220, 19583),

Gene: MementoMori_29 Start: 18515, Stop: 18919, Start Num: 78

Candidate Starts for MementoMori_29:

(Start: 78 @18515 has 56 MA's), (Start: 83 @18524 has 112 MA's), (90, 18536), (94, 18554), (99, 18572), (122, 18650), (126, 18665), (133, 18683), (135, 18689), (160, 18725), (169, 18749), (189, 18797), (191, 18800), (205, 18830), (213, 18854), (214, 18872), (216, 18884), (224, 18911),

Gene: Mentos_35 Start: 23249, Stop: 23662, Start Num: 51

Candidate Starts for Mentos_35:

(32, 23192), (Start: 51 @23249 has 57 MA's), (114, 23408), (170, 23525), (175, 23540),

Gene: Merry_ Start: 21444, Stop: 21854, Start Num: 78

Candidate Starts for Merry_:

(Start: 74 @21438 has 2 MA's), (Start: 78 @21444 has 56 MA's), (122, 21585), (126, 21600), (130, 21612), (133, 21618), (160, 21660), (205, 21768), (214, 21810), (219, 21831),

Gene: Metamorphoo_33 Start: 19183, Stop: 19590, Start Num: 78

Candidate Starts for Metamorphoo_33:

(Start: 78 @19183 has 56 MA's), (126, 19336), (130, 19348), (133, 19354), (160, 19396), (189, 19468), (191, 19471), (205, 19504), (210, 19519), (214, 19546), (224, 19585),

Gene: Mila11_35 Start: 23134, Stop: 23547, Start Num: 51

Candidate Starts for Mila11_35:

(32, 23077), (Start: 51 @23134 has 57 MA's), (114, 23293), (170, 23410), (175, 23425),

Gene: Mimi_87 Start: 52768, Stop: 53151, Start Num: 85

Candidate Starts for Mimi_87:

(Start: 85 @52768 has 6 MA's), (Start: 100 @52807 has 9 MA's), (Start: 101 @52810 has 4 MA's), (130, 52909), (141, 52933), (163, 52984), (166, 52993), (194, 53047), (203, 53074), (206, 53086),

Gene: Mischief19_27 Start: 29157, Stop: 29531, Start Num: 101

Candidate Starts for Mischief19_27:

(Start: 101 @29157 has 4 MA's), (131, 29256), (159, 29316), (168, 29346), (174, 29370),

Gene: MisoSoup_24 Start: 15370, Stop: 15780, Start Num: 78

Candidate Starts for MisoSoup_24:

(Start: 78 @15370 has 56 MA's), (112, 15463), (116, 15478), (126, 15520), (133, 15538), (160, 15583), (183, 15643), (202, 15688), (214, 15733), (216, 15745),

Gene: MmasiCarm_26 Start: 19358, Stop: 19771, Start Num: 89

Candidate Starts for MmasiCarm_26:

(Start: 89 @19358 has 51 MA's), (124, 19478), (125, 19484), (147, 19532), (178, 19616), (219, 19742),

Gene: MoontowerMania_29 Start: 22994, Stop: 23428, Start Num: 83

Candidate Starts for MoontowerMania_29:

(30, 22829), (68, 22964), (Start: 83 @22994 has 112 MA's), (112, 23078), (134, 23153), (174, 23255), (183, 23276), (210, 23348), (220, 23399),

Gene: MorillMayhem_33 Start: 22160, Stop: 22564, Start Num: 51

Candidate Starts for MorillMayhem_33:

(32, 22103), (Start: 51 @22160 has 57 MA's), (61, 22196), (128, 22370), (136, 22391), (172, 22436), (175, 22445), (219, 22550), (223, 22559),

Gene: Mortcellus_25 Start: 20001, Stop: 20414, Start Num: 89

Candidate Starts for Mortcellus_25:

(Start: 89 @20001 has 51 MA's), (124, 20121), (125, 20127), (147, 20175), (178, 20259), (219, 20385),

Gene: Morty007_26 Start: 20148, Stop: 20561, Start Num: 89

Candidate Starts for Morty007_26:

(Start: 89 @20148 has 51 MA's), (124, 20268), (125, 20274), (147, 20322), (178, 20406), (219, 20532),

Gene: Mulaychimus_26 Start: 19340, Stop: 19753, Start Num: 89

Candidate Starts for Mulaychimus_26:

(Start: 89 @19340 has 51 MA's), (124, 19460), (125, 19466), (147, 19514), (178, 19598), (219, 19724),

Gene: Mutzi_28 Start: 18027, Stop: 18470, Start Num: 83

Candidate Starts for Mutzi_28:

(20, 17811), (Start: 83 @18027 has 112 MA's), (220, 18444),

Gene: Namago_33 Start: 21729, Stop: 22142, Start Num: 51

Candidate Starts for Namago_33:

(32, 21672), (Start: 51 @21729 has 57 MA's), (114, 21888), (170, 22005), (175, 22020),

Gene: Natkenzie_30 Start: 22964, Stop: 23395, Start Num: 83

Candidate Starts for Natkenzie_30:

(62, 22904), (71, 22937), (Start: 83 @22964 has 112 MA's), (123, 23093), (134, 23123), (174, 23225), (176, 23231), (183, 23246), (205, 23303), (210, 23318), (219, 23366), (220, 23369),

Gene: Neos5_26 Start: 20155, Stop: 20568, Start Num: 89

Candidate Starts for Neos5_26:

(Start: 89 @20155 has 51 MA's), (113, 20230), (124, 20275), (125, 20281), (178, 20413), (219, 20539),

Gene: Nicole72_28 Start: 20957, Stop: 21364, Start Num: 79

Candidate Starts for Nicole72_28:

(Start: 79 @20957 has 1 MA's), (115, 21062), (116, 21065), (122, 21092), (126, 21107), (130, 21119), (133, 21125), (154, 21152), (160, 21167), (191, 21242), (193, 21245), (205, 21275), (214, 21317), (219, 21338), (224, 21356),

Gene: Nikan_28 Start: 19422, Stop: 19934, Start Num: 46

Candidate Starts for Nikan_28:

(Start: 46 @19422 has 6 MA's), (88, 19557), (162, 19734), (170, 19758), (210, 19860), (218, 19905), (220, 19911),

Gene: Nike_33 Start: 22681, Stop: 23094, Start Num: 51

Candidate Starts for Nike_33:

(32, 22624), (Start: 51 @22681 has 57 MA's), (114, 22840), (170, 22957), (175, 22972),

Gene: NoodlelyBoi_33 Start: 19715, Stop: 20119, Start Num: 78

Candidate Starts for NoodlelyBoi_33:

(Start: 78 @19715 has 56 MA's), (Start: 83 @19724 has 112 MA's), (93, 19751), (94, 19754), (122, 19850), (126, 19865), (130, 19877), (133, 19883), (160, 19925), (189, 19997), (191, 20000), (205, 20033), (214, 20075), (224, 20114),

Gene: Nordenberg_24 Start: 22353, Stop: 22787, Start Num: 83

Candidate Starts for Nordenberg_24:

(68, 22323), (Start: 83 @22353 has 112 MA's), (112, 22437), (134, 22512), (145, 22536), (174, 22614), (210, 22707), (220, 22758),

Gene: Nozo_26 Start: 20125, Stop: 20538, Start Num: 89

Candidate Starts for Nozo_26:

(Start: 89 @20125 has 51 MA's), (113, 20200), (124, 20245), (125, 20251), (178, 20383), (219, 20509),

Gene: Nubi_26 Start: 17592, Stop: 18035, Start Num: 83

Candidate Starts for Nubi_26:

(Start: 83 @17592 has 112 MA's), (174, 17853), (220, 18009),

Gene: NyleyClemson_28 Start: 19021, Stop: 19533, Start Num: 46

Candidate Starts for NyleyClemson_28:

(9, 18595), (35, 18988), (Start: 46 @19021 has 6 MA's), (Start: 103 @19180 has 1 MA's), (112, 19207), (162, 19333), (164, 19339), (204, 19441), (210, 19459), (220, 19510),

Gene: Obutu_26 Start: 19358, Stop: 19771, Start Num: 89

Candidate Starts for Obutu_26:

(Start: 89 @19358 has 51 MA's), (113, 19433), (124, 19478), (125, 19484), (178, 19616), (219, 19742),

Gene: Odyssey395_35 Start: 20354, Stop: 20884, Start Num: 39

Candidate Starts for Odyssey395_35:

(Start: 39 @20354 has 8 MA's), (60, 20429), (112, 20558), (162, 20684), (164, 20690), (204, 20792), (210, 20810), (220, 20861),

Gene: Olivio_25 Start: 19212, Stop: 19625, Start Num: 89

Candidate Starts for Olivio_25:

(Start: 89 @19212 has 51 MA's), (113, 19287), (124, 19332), (125, 19338), (178, 19470), (219, 19596),

Gene: Ollypop_31 Start: 19444, Stop: 19956, Start Num: 46

Candidate Starts for Ollypop_31:

(Start: 46 @19444 has 6 MA's), (88, 19579), (162, 19756), (170, 19780), (210, 19882), (218, 19927), (220, 19933), (224, 19948),

Gene: OneinaGillian_32 Start: 20626, Stop: 21021, Start Num: 51

Candidate Starts for OneinaGillian_32:

(Start: 51 @20626 has 57 MA's), (66, 20677), (114, 20785), (136, 20860), (186, 20926), (219, 21013),

Gene: Onika_32 Start: 19362, Stop: 19766, Start Num: 78

Candidate Starts for Onika_32:

(Start: 78 @19362 has 56 MA's), (Start: 83 @19371 has 112 MA's), (93, 19398), (94, 19401), (122, 19497), (126, 19512), (130, 19524), (133, 19530), (160, 19572), (191, 19647), (205, 19680), (214, 19722), (224, 19761),

Gene: OrangeOswald_26 Start: 19363, Stop: 19776, Start Num: 89

Candidate Starts for OrangeOswald_26:

(Start: 89 @19363 has 51 MA's), (113, 19438), (124, 19483), (125, 19489), (178, 19621), (219, 19747),

Gene: Panchaali_80 Start: 49870, Stop: 50250, Start Num: 86

Candidate Starts for Panchaali_80:

(Start: 86 @49870 has 12 MA's), (91, 49879), (Start: 100 @49906 has 9 MA's), (Start: 101 @49909 has 4 MA's), (157, 50062), (166, 50092), (208, 50188),

Gene: Paries_32 Start: 23819, Stop: 24253, Start Num: 83

Candidate Starts for Paries_32:

(68, 23780), (Start: 83 @23819 has 112 MA's), (112, 23903), (134, 23978), (145, 24002), (174, 24080), (183, 24101), (210, 24173), (220, 24224),

Gene: Paschalis_32 Start: 19375, Stop: 19779, Start Num: 78

Candidate Starts for Paschalis_32:

(Start: 78 @19375 has 56 MA's), (Start: 83 @19384 has 112 MA's), (93, 19411), (94, 19414), (122, 19510), (126, 19525), (130, 19537), (133, 19543), (160, 19585), (191, 19660), (205, 19693), (214, 19735), (224, 19774),

Gene: Patbob_86 Start: 53640, Stop: 54023, Start Num: 85

Candidate Starts for Patbob_86:

(Start: 85 @53640 has 6 MA's), (Start: 100 @53679 has 9 MA's), (130, 53781), (141, 53805), (151, 53826), (163, 53856), (166, 53865), (194, 53919), (203, 53946), (206, 53958),

Gene: PauloDiaboli_94 Start: 50046, Stop: 50456, Start Num: 73

Candidate Starts for PauloDiaboli_94:

(Start: 73 @50046 has 3 MA's), (108, 50133), (110, 50136), (119, 50166), (203, 50376), (209, 50394),

Gene: Pepe25_31 Start: 20844, Stop: 21239, Start Num: 51

Candidate Starts for Pepe25_31:

(Start: 51 @20844 has 57 MA's), (63, 20886), (66, 20895), (114, 21003), (186, 21144), (215, 21213), (219, 21231),

Gene: Phabia_33 Start: 22063, Stop: 22467, Start Num: 51

Candidate Starts for Phabia_33:

(32, 22006), (Start: 51 @22063 has 57 MA's), (61, 22099), (128, 22273), (136, 22294), (172, 22339), (175, 22348), (219, 22453), (223, 22462),

Gene: Phauci_21 Start: 17995, Stop: 18426, Start Num: 83

Candidate Starts for Phauci_21:

(24, 17803), (71, 17968), (Start: 83 @17995 has 112 MA's), (112, 18079), (143, 18175), (174, 18256), (176, 18262), (181, 18274), (205, 18334), (213, 18358), (219, 18397), (220, 18400),

Gene: Phayeta_26 Start: 19239, Stop: 19652, Start Num: 89

Candidate Starts for Phayeta_26:

(Start: 89 @19239 has 51 MA's), (113, 19314), (124, 19359), (125, 19365), (178, 19497), (219, 19623),

Gene: PhedwardCullen_32 Start: 19120, Stop: 19524, Start Num: 78

Candidate Starts for PhedwardCullen_32:

(Start: 78 @19120 has 56 MA's), (Start: 83 @19129 has 112 MA's), (93, 19156), (94, 19159), (122, 19255), (126, 19270), (130, 19282), (133, 19288), (160, 19330), (191, 19405), (205, 19438), (214, 19480), (224, 19519),

Gene: Phendrix_82 Start: 43488, Stop: 43901, Start Num: 70

Candidate Starts for Phendrix_82:

(Start: 70 @43488 has 3 MA's), (90, 43521), (121, 43614), (125, 43638), (139, 43671), (152, 43698), (155, 43701), (187, 43773), (194, 43794), (206, 43833), (220, 43893),

Gene: Philly_25 Start: 19229, Stop: 19642, Start Num: 89

Candidate Starts for Philly_25:

(Start: 89 @19229 has 51 MA's), (113, 19304), (124, 19349), (125, 19355), (178, 19487), (219, 19613),

Gene: Phinally_28 Start: 21403, Stop: 21834, Start Num: 83

Candidate Starts for Phinally_28:

(20, 21175), (24, 21211), (71, 21376), (Start: 73 @21379 has 3 MA's), (Start: 83 @21403 has 112 MA's), (112, 21487), (143, 21583), (174, 21664), (176, 21670), (181, 21682), (205, 21742), (213, 21766), (219, 21805), (220, 21808),

Gene: Phinky_39 Start: 23231, Stop: 23650, Start Num: 51

Candidate Starts for Phinky_39:

(40, 23201), (Start: 51 @23231 has 57 MA's), (61, 23267), (64, 23276), (90, 23342), (136, 23465), (175, 23522), (223, 23645),

Gene: Phlop_26 Start: 17656, Stop: 18099, Start Num: 83

Candidate Starts for Phlop_26:

(Start: 83 @17656 has 112 MA's), (174, 17917), (220, 18073),

Gene: Phlyer_26 Start: 20098, Stop: 20511, Start Num: 89

Candidate Starts for Phlyer_26:

(Start: 89 @20098 has 51 MA's), (124, 20218), (125, 20224), (147, 20272), (178, 20356), (219, 20482),

Gene: Phorgeous_32 Start: 19229, Stop: 19633, Start Num: 78

Candidate Starts for Phorgeous_32:

(Start: 78 @19229 has 56 MA's), (Start: 83 @19238 has 112 MA's), (93, 19265), (94, 19268), (122, 19364), (126, 19379), (130, 19391), (133, 19397), (160, 19439), (191, 19514), (205, 19547), (214, 19589), (224, 19628),

Gene: Phrampa_79 Start: 50368, Stop: 50751, Start Num: 85

Candidate Starts for Phrampa_79:

(Start: 85 @50368 has 6 MA's), (Start: 100 @50407 has 9 MA's), (124, 50488), (130, 50509), (141, 50533), (165, 50590), (166, 50593), (194, 50647), (203, 50674),

Gene: Phrancesco_33 Start: 19507, Stop: 19911, Start Num: 78

Candidate Starts for Phrancesco_33:

(Start: 78 @19507 has 56 MA's), (Start: 83 @19516 has 112 MA's), (93, 19543), (94, 19546), (122, 19642), (126, 19657), (130, 19669), (133, 19675), (160, 19717), (191, 19792), (205, 19825), (214, 19867), (224, 19906),

Gene: PhuzzTulsa_31 Start: 20314, Stop: 20844, Start Num: 39

Candidate Starts for PhuzzTulsa_31:

(Start: 39 @20314 has 8 MA's), (60, 20389), (112, 20518), (162, 20644), (164, 20650), (204, 20752), (210, 20770), (220, 20821),

Gene: PierreOrion_33 Start: 19530, Stop: 19934, Start Num: 78

Candidate Starts for PierreOrion_33:

(Start: 78 @19530 has 56 MA's), (Start: 83 @19539 has 112 MA's), (93, 19566), (94, 19569), (122, 19665), (126, 19680), (130, 19692), (133, 19698), (160, 19740), (191, 19815), (205, 19848), (214, 19890), (224, 19929),

Gene: PinkCoffee_28 Start: 18295, Stop: 18738, Start Num: 83

Candidate Starts for PinkCoffee_28:

(Start: 83 @18295 has 112 MA's), (174, 18556), (220, 18712),

Gene: Pipefish_26 Start: 20248, Stop: 20661, Start Num: 89

Candidate Starts for Pipefish_26:

(Start: 89 @20248 has 51 MA's), (124, 20368), (125, 20374), (147, 20422), (178, 20506), (219, 20632),

Gene: PiperSansNom_33 Start: 19682, Stop: 20086, Start Num: 78

Candidate Starts for PiperSansNom_33:

(Start: 78 @19682 has 56 MA's), (Start: 83 @19691 has 112 MA's), (93, 19718), (94, 19721), (122, 19817), (126, 19832), (130, 19844), (133, 19850), (160, 19892), (191, 19967), (205, 20000), (214, 20042), (224, 20081),

Gene: Piperis_33 Start: 19352, Stop: 19756, Start Num: 78

Candidate Starts for Piperis_33:

(Start: 78 @19352 has 56 MA's), (Start: 83 @19361 has 112 MA's), (93, 19388), (94, 19391), (122, 19487), (126, 19502), (130, 19514), (133, 19520), (160, 19562), (191, 19637), (205, 19670), (214, 19712), (224, 19751),

Gene: Pointis_33 Start: 20358, Stop: 20888, Start Num: 39

Candidate Starts for Pointis_33:

(Start: 39 @20358 has 8 MA's), (60, 20433), (112, 20562), (162, 20688), (164, 20694), (204, 20796), (210, 20814), (220, 20865),

Gene: Popstraw_31 Start: 20144, Stop: 20674, Start Num: 39

Candidate Starts for Popstraw_31:

(Start: 39 @20144 has 8 MA's), (60, 20219), (112, 20348), (162, 20474), (164, 20480), (204, 20582), (210, 20600), (220, 20651),

Gene: Portcullis_26 Start: 17599, Stop: 18042, Start Num: 83

Candidate Starts for Portcullis_26:

(Start: 83 @17599 has 112 MA's), (174, 17860), (220, 18016),

Gene: Pulchra_34 Start: 19752, Stop: 20156, Start Num: 78

Candidate Starts for Pulchra_34:

(Start: 78 @19752 has 56 MA's), (Start: 83 @19761 has 112 MA's), (93, 19788), (94, 19791), (122, 19887), (126, 19902), (130, 19914), (133, 19920), (160, 19962), (191, 20037), (205, 20070), (214, 20112), (224, 20151),

Gene: PullumCavea_26 Start: 17656, Stop: 18099, Start Num: 83

Candidate Starts for PullumCavea_26:

(Start: 83 @17656 has 112 MA's), (174, 17917), (220, 18073),

Gene: Pumpernickel_91 Start: 51418, Stop: 51831, Start Num: 70

Candidate Starts for Pumpernickel_91:

(Start: 70 @51418 has 3 MA's), (108, 51508), (119, 51541), (124, 51565), (130, 51586), (166, 51670), (200, 51748), (208, 51766), (209, 51769),

Gene: Pumpkiney_31 Start: 20284, Stop: 20715, Start Num: 83

Candidate Starts for Pumpkiney_31:

(26, 20098), (43, 20158), (62, 20224), (71, 20257), (Start: 83 @20284 has 112 MA's), (123, 20413), (134, 20443), (174, 20545), (176, 20551), (183, 20566), (205, 20623), (210, 20638), (219, 20686), (220, 20689),

Gene: Pureglobe5_35 Start: 20541, Stop: 21071, Start Num: 39

Candidate Starts for Pureglobe5_35:

(Start: 39 @20541 has 8 MA's), (60, 20616), (112, 20745), (117, 20760), (162, 20871), (164, 20877), (204, 20979), (210, 20997), (220, 21048),

Gene: Purplicious_52 Start: 28781, Stop: 29206, Start Num: 81

Candidate Starts for Purplicious_52:

(Start: 81 @28781 has 9 MA's), (150, 28979), (178, 29051), (200, 29105), (207, 29120),

Gene: Quammi_31 Start: 21635, Stop: 22048, Start Num: 51

Candidate Starts for Quammi_31:

(32, 21578), (Start: 51 @21635 has 57 MA's), (61, 21671), (114, 21794), (170, 21911), (175, 21926),

Gene: Quhwah_36 Start: 19978, Stop: 20382, Start Num: 78

Candidate Starts for Quhwah_36:

(Start: 78 @19978 has 56 MA's), (Start: 83 @19987 has 112 MA's), (93, 20014), (94, 20017), (126, 20128), (130, 20140), (133, 20146), (160, 20188), (191, 20263), (205, 20296), (214, 20338), (224, 20377),

Gene: RIPWilbur_31 Start: 19686, Stop: 20198, Start Num: 46

Candidate Starts for RIPWilbur_31:

(23, 19611), (35, 19653), (Start: 46 @19686 has 6 MA's), (60, 19743), (Start: 103 @19845 has 1 MA's), (112, 19872), (162, 19998), (164, 20004), (204, 20106), (210, 20124), (220, 20175),

Gene: Racecar_88 Start: 53421, Stop: 53804, Start Num: 85

Candidate Starts for Racecar_88:

(Start: 85 @53421 has 6 MA's), (Start: 100 @53460 has 9 MA's), (Start: 101 @53463 has 4 MA's), (130, 53562), (141, 53586), (163, 53637), (166, 53646), (194, 53700), (203, 53727), (206, 53739),

Gene: RagingRooster_26 Start: 19364, Stop: 19777, Start Num: 89

Candidate Starts for RagingRooster_26:

(Start: 89 @19364 has 51 MA's), (113, 19439), (124, 19484), (125, 19490), (178, 19622), (219, 19748),

Gene: RainyPolka_20 Start: 19600, Stop: 19980, Start Num: 100

Candidate Starts for RainyPolka_20:

(22, 19327), (41, 19408), (Start: 100 @19600 has 9 MA's), (106, 19615), (120, 19657), (131, 19702), (150, 19744), (176, 19822), (192, 19873), (198, 19888), (206, 19915), (208, 19918),

Gene: Ramiel05_32 Start: 19387, Stop: 19791, Start Num: 78

Candidate Starts for Ramiel05_32:

(Start: 78 @19387 has 56 MA's), (Start: 83 @19396 has 112 MA's), (93, 19423), (94, 19426), (122, 19522), (126, 19537), (130, 19549), (133, 19555), (160, 19597), (191, 19672), (205, 19705), (214, 19747), (224, 19786),

Gene: Ranunculus_27 Start: 19454, Stop: 19969, Start Num: 44

Candidate Starts for Ranunculus_27:

(35, 19424), (Start: 44 @19454 has 1 MA's), (60, 19514), (69, 19544), (Start: 76 @19565 has 9 MA's), (142, 19736), (162, 19769), (210, 19895), (214, 19922), (218, 19940), (220, 19946),

Gene: Rasputia_68 Start: 39096, Stop: 39503, Start Num: 78

Candidate Starts for Rasputia_68:

(Start: 51 @39006 has 57 MA's), (69, 39072), (Start: 78 @39096 has 56 MA's), (Start: 86 @39111 has 12 MA's), (113, 39192), (119, 39213), (122, 39231), (126, 39246), (137, 39273), (160, 39309), (214, 39459), (219, 39480), (221, 39486), (224, 39498),

Gene: RazzB_29 Start: 18840, Stop: 19352, Start Num: 46

Candidate Starts for RazzB_29:

(9, 18414), (35, 18807), (Start: 46 @18840 has 6 MA's), (Start: 103 @18999 has 1 MA's), (112, 19026), (117, 19041), (162, 19152), (164, 19158), (204, 19260), (210, 19278), (220, 19329),

Gene: ReginaGlobina_87 Start: 52911, Stop: 53291, Start Num: 86

Candidate Starts for ReginaGlobina_87:

(Start: 86 @52911 has 12 MA's), (91, 52920), (Start: 100 @52947 has 9 MA's), (149, 53088), (166, 53133), (187, 53166), (208, 53229),

Gene: Ren19_29 Start: 19422, Stop: 19934, Start Num: 46

Candidate Starts for Ren19_29:

(Start: 46 @19422 has 6 MA's), (88, 19557), (162, 19734), (170, 19758), (210, 19860), (218, 19905), (220, 19911),

Gene: Ribeye_30 Start: 23007, Stop: 23441, Start Num: 76

Candidate Starts for Ribeye_30:

(Start: 76 @23007 has 9 MA's), (Start: 101 @23061 has 4 MA's), (112, 23091), (134, 23166), (174, 23268), (183, 23289), (210, 23361), (220, 23412),

Gene: Rita1961_26 Start: 19359, Stop: 19772, Start Num: 89

Candidate Starts for Rita1961_26:

(Start: 89 @19359 has 51 MA's), (113, 19434), (124, 19479), (125, 19485), (178, 19617), (219, 19743),

Gene: RiverRaider_30 Start: 21439, Stop: 21873, Start Num: 83

Candidate Starts for RiverRaider_30:

(Start: 83 @21439 has 112 MA's), (112, 21523), (174, 21700), (183, 21721), (205, 21778), (210, 21793), (220, 21844),

Gene: Rizwana_27 Start: 19558, Stop: 20037, Start Num: 52

Candidate Starts for Rizwana_27:

(Start: 52 @19558 has 3 MA's), (210, 19966), (220, 20017), (222, 20023),

Gene: RoadKill_25 Start: 19107, Stop: 19538, Start Num: 83

Candidate Starts for RoadKill_25:

(28, 18933), (45, 18984), (Start: 83 @19107 has 112 MA's), (112, 19191), (134, 19266), (181, 19386), (188, 19401), (210, 19461), (216, 19500), (219, 19509), (220, 19512),

Gene: RobinRose_34 Start: 21130, Stop: 21525, Start Num: 51

Candidate Starts for RobinRose_34:

(Start: 51 @21130 has 57 MA's), (63, 21172), (66, 21181), (114, 21289), (186, 21430), (219, 21517),

Gene: RobsFeet_34 Start: 19464, Stop: 19871, Start Num: 78

Candidate Starts for RobsFeet_34:

(Start: 78 @19464 has 56 MA's), (126, 19617), (130, 19629), (133, 19635), (160, 19677), (189, 19749), (191, 19752), (205, 19785), (210, 19800), (214, 19827), (224, 19866),

Gene: Rockabye_86 Start: 55651, Stop: 56040, Start Num: 86

Candidate Starts for Rockabye_86:

(Start: 86 @55651 has 12 MA's), (108, 55711), (118, 55741), (125, 55774), (166, 55873), (194, 55927), (203, 55954), (206, 55966), (216, 56014),

Gene: Rockwell_32 Start: 19387, Stop: 19791, Start Num: 78

Candidate Starts for Rockwell_32:

(Start: 78 @19387 has 56 MA's), (Start: 83 @19396 has 112 MA's), (93, 19423), (94, 19426), (122, 19522), (126, 19537), (130, 19549), (133, 19555), (160, 19597), (191, 19672), (205, 19705), (214, 19747), (224, 19786),

Gene: Rofo_30 Start: 23214, Stop: 23648, Start Num: 83

Candidate Starts for Rofo_30:

(68, 23184), (Start: 83 @23214 has 112 MA's), (112, 23298), (134, 23373), (145, 23397), (174, 23475), (210, 23568), (220, 23619),

Gene: RogerDodger_29 Start: 18449, Stop: 18892, Start Num: 83

Candidate Starts for RogerDodger_29:

(Start: 83 @18449 has 112 MA's), (174, 18710), (220, 18866),

Gene: RomaT_26 Start: 20149, Stop: 20562, Start Num: 89

Candidate Starts for RomaT_26:

(Start: 89 @20149 has 51 MA's), (124, 20269), (125, 20275), (178, 20407), (219, 20533),

Gene: RomansRevenge_24 Start: 18816, Stop: 19310, Start Num: 48

Candidate Starts for RomansRevenge_24:

(Start: 48 @18816 has 1 MA's), (56, 18840), (57, 18843), (Start: 72 @18900 has 1 MA's), (92, 18951), (115, 18990), (161, 19101), (170, 19128), (214, 19260), (220, 19284),

Gene: Romm_34 Start: 21130, Stop: 21525, Start Num: 51

Candidate Starts for Romm_34:

(Start: 51 @21130 has 57 MA's), (63, 21172), (66, 21181), (114, 21289), (186, 21430), (219, 21517),

Gene: Rowlf_29 Start: 21810, Stop: 22223, Start Num: 51

Candidate Starts for Rowlf_29:

(32, 21753), (Start: 51 @21810 has 57 MA's), (114, 21969), (170, 22086), (175, 22101),

Gene: RubyRalph_35 Start: 21703, Stop: 22119, Start Num: 51

Candidate Starts for RubyRalph_35:

(19, 21580), (40, 21670), (Start: 51 @21703 has 57 MA's), (90, 21814), (129, 21919), (177, 22000), (180, 22003), (223, 22114),

Gene: Rudy_31 Start: 21668, Stop: 22081, Start Num: 51

Candidate Starts for Rudy_31:

(32, 21611), (42, 21641), (Start: 51 @21668 has 57 MA's), (61, 21704), (114, 21827), (170, 21944), (175, 21959),

Gene: SJReid_90 Start: 54733, Stop: 55122, Start Num: 86

Candidate Starts for SJReid_90:

(Start: 86 @54733 has 12 MA's), (107, 54790), (141, 54895), (142, 54898), (166, 54955), (194, 55009), (203, 55036), (206, 55048), (216, 55096),

Gene: SadLad_37 Start: 22646, Stop: 23062, Start Num: 51

Candidate Starts for SadLad_37:

(7, 22172), (8, 22178), (9, 22205), (11, 22295), (19, 22523), (40, 22613), (Start: 51 @22646 has 57 MA's), (90, 22757), (177, 22943), (180, 22946), (223, 23057),

Gene: Salete_19 Start: 19235, Stop: 19615, Start Num: 100

Candidate Starts for Salete_19:

(14, 18785), (41, 19067), (Start: 100 @19235 has 9 MA's), (106, 19250), (120, 19292), (131, 19337), (168, 19427), (176, 19457), (192, 19508), (198, 19523), (206, 19550), (208, 19553),

Gene: SallyK_34 Start: 22743, Stop: 23147, Start Num: 51

Candidate Starts for SallyK_34:

(Start: 51 @22743 has 57 MA's), (61, 22779), (128, 22953), (136, 22974), (172, 23019), (175, 23028), (219, 23133), (223, 23142),

Gene: Salvador_26 Start: 17570, Stop: 18013, Start Num: 83

Candidate Starts for Salvador_26:

(Start: 83 @17570 has 112 MA's), (174, 17831), (220, 17987),

Gene: Sampson_30 Start: 22909, Stop: 23340, Start Num: 83

Candidate Starts for Sampson_30:

(62, 22849), (71, 22882), (Start: 83 @22909 has 112 MA's), (123, 23038), (134, 23068), (174, 23170), (176, 23176), (183, 23191), (205, 23248), (210, 23263), (219, 23311), (220, 23314),

Gene: Sanjuju_28 Start: 23395, Stop: 23829, Start Num: 83

Candidate Starts for Sanjuju_28:

(68, 23365), (Start: 83 @23395 has 112 MA's), (112, 23479), (134, 23554), (145, 23578), (174, 23656), (183, 23677), (210, 23749), (220, 23800),

Gene: Saronaya_29 Start: 21853, Stop: 22287, Start Num: 83

Candidate Starts for Saronaya_29:

(Start: 78 @21844 has 56 MA's), (Start: 83 @21853 has 112 MA's), (112, 21937), (134, 22012), (174, 22114), (183, 22135), (205, 22192), (210, 22207), (220, 22258),

Gene: Savannah_32 Start: 19414, Stop: 19818, Start Num: 78

Candidate Starts for Savannah_32:

(Start: 78 @19414 has 56 MA's), (Start: 83 @19423 has 112 MA's), (93, 19450), (94, 19453), (122, 19549), (126, 19564), (130, 19576), (133, 19582), (160, 19624), (191, 19699), (205, 19732), (214, 19774), (224, 19813),

Gene: Savbucketdawg_26 Start: 17351, Stop: 17794, Start Num: 83

Candidate Starts for Savbucketdawg_26:

(Start: 83 @17351 has 112 MA's), (174, 17612), (220, 17768),

Gene: SchottB_28 Start: 22865, Stop: 23299, Start Num: 83

Candidate Starts for SchottB_28:

(Start: 78 @22856 has 56 MA's), (Start: 83 @22865 has 112 MA's), (112, 22949), (134, 23024), (174, 23126), (183, 23147), (205, 23204), (210, 23219), (220, 23270),

Gene: Scioto_30 Start: 22964, Stop: 23395, Start Num: 83

Candidate Starts for Scioto_30:

(62, 22904), (71, 22937), (Start: 83 @22964 has 112 MA's), (123, 23093), (134, 23123), (174, 23225), (176, 23231), (183, 23246), (205, 23303), (210, 23318), (219, 23366), (220, 23369),

Gene: Scumberland_34 Start: 19603, Stop: 20007, Start Num: 78

Candidate Starts for Scumberland_34:

(Start: 78 @19603 has 56 MA's), (Start: 83 @19612 has 112 MA's), (93, 19639), (94, 19642), (122, 19738), (126, 19753), (130, 19765), (133, 19771), (160, 19813), (191, 19888), (205, 19921), (214, 19963), (224, 20002),

Gene: Sedona_30 Start: 24320, Stop: 24754, Start Num: 83

Candidate Starts for Sedona_30:

(Start: 83 @24320 has 112 MA's), (112, 24404), (134, 24479), (145, 24503), (174, 24581), (183, 24602), (205, 24659), (210, 24674), (220, 24725),

Gene: Sejanus_22 Start: 17555, Stop: 17959, Start Num: 83

Candidate Starts for Sejanus_22:

(Start: 83 @17555 has 112 MA's), (113, 17633), (124, 17678), (125, 17684), (146, 17729), (156, 17750), (171, 17792), (178, 17816), (193, 17843), (198, 17855), (217, 17933),

Gene: Selwyn23_34 Start: 19580, Stop: 19984, Start Num: 78

Candidate Starts for Selwyn23_34:

(Start: 78 @19580 has 56 MA's), (Start: 83 @19589 has 112 MA's), (93, 19616), (94, 19619), (122, 19715), (126, 19730), (130, 19742), (133, 19748), (160, 19790), (191, 19865), (205, 19898), (214, 19940), (224, 19979),

Gene: Sendy_27 Start: 17805, Stop: 18248, Start Num: 83

Candidate Starts for Sendy_27:

(21, 17589), (28, 17631), (Start: 83 @17805 has 112 MA's), (174, 18066), (220, 18222),

Gene: SharkTale_26 Start: 18370, Stop: 18813, Start Num: 83

Candidate Starts for SharkTale_26:

(Start: 83 @18370 has 112 MA's), (220, 18787),

Gene: Shenandoah_26 Start: 19342, Stop: 19755, Start Num: 89

Candidate Starts for Shenandoah_26:

(Start: 89 @19342 has 51 MA's), (113, 19417), (124, 19462), (125, 19468), (178, 19600), (219, 19726),

Gene: Shinji_26 Start: 17540, Stop: 17983, Start Num: 83

Candidate Starts for Shinji_26:

(Start: 83 @17540 has 112 MA's), (174, 17801), (220, 17957),

Gene: Shivanishola_31 Start: 23294, Stop: 23728, Start Num: 83

Candidate Starts for Shivanishola_31:

(68, 23264), (Start: 83 @23294 has 112 MA's), (112, 23378), (134, 23453), (145, 23477), (174, 23555), (183, 23576), (210, 23648), (220, 23699),

Gene: Shotgun_32 Start: 19213, Stop: 19617, Start Num: 78

Candidate Starts for Shotgun_32:

(Start: 78 @19213 has 56 MA's), (Start: 83 @19222 has 112 MA's), (93, 19249), (94, 19252), (122, 19348), (126, 19363), (130, 19375), (133, 19381), (160, 19423), (191, 19498), (205, 19531), (214, 19573), (224, 19612),

Gene: Shrubaron_33 Start: 19098, Stop: 19505, Start Num: 78

Candidate Starts for Shrubaron_33:

(Start: 78 @19098 has 56 MA's), (93, 19137), (126, 19251), (130, 19263), (133, 19269), (160, 19311), (189, 19383), (191, 19386), (205, 19419), (210, 19434), (214, 19461), (224, 19500),

Gene: SilentRX_28 Start: 20590, Stop: 21114, Start Num: 47

Candidate Starts for SilentRX_28:

(10, 20251), (35, 20554), (Start: 47 @20590 has 2 MA's), (49, 20602), (123, 20827), (162, 20902), (164, 20908),

Gene: Sillytadpoles_33 Start: 21633, Stop: 22037, Start Num: 51

Candidate Starts for Sillytadpoles_33:

(32, 21576), (Start: 51 @21633 has 57 MA's), (61, 21669), (128, 21843), (136, 21864), (172, 21909), (175, 21918), (219, 22023), (223, 22032),

Gene: SirFrank_32 Start: 19315, Stop: 19719, Start Num: 78

Candidate Starts for SirFrank_32:

(Start: 78 @19315 has 56 MA's), (Start: 83 @19324 has 112 MA's), (94, 19354), (122, 19450), (126, 19465), (130, 19477), (133, 19483), (191, 19600), (205, 19633), (214, 19675), (224, 19714),

Gene: Sitar_30 Start: 24387, Stop: 24821, Start Num: 83

Candidate Starts for Sitar_30:

(68, 24357), (Start: 83 @24387 has 112 MA's), (112, 24471), (134, 24546), (174, 24648), (183, 24669), (210, 24741), (220, 24792),

Gene: Sixama_94 Start: 51509, Stop: 51916, Start Num: 86

Candidate Starts for Sixama_94:

(Start: 85 @51506 has 6 MA's), (Start: 86 @51509 has 12 MA's), (Start: 100 @51545 has 9 MA's), (119, 51602), (179, 51776), (184, 51785), (197, 51821), (199, 51833), (208, 51854), (214, 51887), (216, 51899), (219, 51908),

Gene: Sixsevenium_27 Start: 17507, Stop: 17950, Start Num: 83

Candidate Starts for Sixsevenium_27:

(Start: 83 @17507 has 112 MA's), (220, 17924),

Gene: Skugga_31 Start: 19196, Stop: 19606, Start Num: 74

Candidate Starts for Skugga_31:

(Start: 74 @19196 has 2 MA's), (Start: 78 @19202 has 56 MA's), (Start: 86 @19217 has 12 MA's), (126, 19352), (130, 19364), (133, 19370), (151, 19394), (160, 19412), (189, 19484), (205, 19520), (214, 19562), (224, 19601),

Gene: SlippinJimmy_26 Start: 20128, Stop: 20541, Start Num: 89

Candidate Starts for SlippinJimmy_26:

(Start: 89 @20128 has 51 MA's), (124, 20248), (125, 20254), (147, 20302), (178, 20386), (219, 20512),

Gene: SlySloth_35 Start: 22638, Stop: 23036, Start Num: 51

Candidate Starts for SlySloth_35:

(34, 22584), (Start: 51 @22638 has 57 MA's), (61, 22674), (128, 22848), (136, 22869), (172, 22914), (175, 22923),

Gene: Smarties_41 Start: 21286, Stop: 21693, Start Num: 78

Candidate Starts for Smarties_41:

(Start: 78 @21286 has 56 MA's), (126, 21439), (130, 21451), (160, 21499), (189, 21571), (191, 21574), (205, 21607), (210, 21622), (214, 21649), (224, 21688),

Gene: SmokingBunny_26 Start: 17570, Stop: 18013, Start Num: 83

Candidate Starts for SmokingBunny_26:

(Start: 83 @17570 has 112 MA's), (174, 17831), (220, 17987),

Gene: Soos_49 Start: 28742, Stop: 29167, Start Num: 81

Candidate Starts for Soos_49:

(Start: 81 @28742 has 9 MA's), (150, 28940), (178, 29012), (200, 29066), (207, 29081),

Gene: Spiderpig_32 Start: 20827, Stop: 21222, Start Num: 51

Candidate Starts for Spiderpig_32:

(Start: 51 @20827 has 57 MA's), (63, 20869), (66, 20878), (114, 20986), (186, 21127), (215, 21196), (219, 21214),

Gene: Squash_35 Start: 22692, Stop: 23105, Start Num: 51

Candidate Starts for Squash_35:

(32, 22635), (Start: 51 @22692 has 57 MA's), (114, 22851), (170, 22968), (175, 22983),

Gene: Statler_34 Start: 22552, Stop: 22956, Start Num: 51

Candidate Starts for Statler_34:

(36, 22507), (Start: 51 @22552 has 57 MA's), (56, 22564), (61, 22588), (128, 22762), (136, 22783),
(172, 22828), (175, 22837), (219, 22942), (223, 22951),

Gene: Stewart25555_78 Start: 49328, Stop: 49672, Start Num: 100

Candidate Starts for Stewart25555_78:

(Start: 86 @49292 has 12 MA's), (91, 49301), (Start: 100 @49328 has 9 MA's), (166, 49514), (208, 49610),

Gene: Stichling_27 Start: 21367, Stop: 21801, Start Num: 83

Candidate Starts for Stichling_27:

(Start: 83 @21367 has 112 MA's), (112, 21451), (121, 21481), (174, 21628), (183, 21649), (205, 21706), (210, 21721), (220, 21772),

Gene: Stillion_52 Start: 29339, Stop: 29764, Start Num: 81

Candidate Starts for Stillion_52:

(Start: 81 @29339 has 9 MA's), (150, 29537), (178, 29609), (200, 29663), (207, 29678),

Gene: Sting_52 Start: 29181, Stop: 29606, Start Num: 81

Candidate Starts for Sting_52:

(Start: 81 @29181 has 9 MA's), (150, 29379), (178, 29451), (200, 29505), (207, 29520),

Gene: StorminNorm_29 Start: 21732, Stop: 22166, Start Num: 83

Candidate Starts for StorminNorm_29:

(Start: 78 @21723 has 56 MA's), (Start: 83 @21732 has 112 MA's), (112, 21816), (134, 21891), (174, 21993), (183, 22014), (205, 22071), (210, 22086), (220, 22137),

Gene: StrawberryJamm_35 Start: 21872, Stop: 22285, Start Num: 51

Candidate Starts for StrawberryJamm_35:

(32, 21815), (Start: 51 @21872 has 57 MA's), (114, 22031), (170, 22148), (175, 22163),

Gene: Stultus_28 Start: 22302, Stop: 22736, Start Num: 83

Candidate Starts for Stultus_28:

(68, 22272), (Start: 83 @22302 has 112 MA's), (112, 22386), (134, 22461), (145, 22485), (174, 22563),
(183, 22584), (210, 22656), (220, 22707),

Gene: Sunfish_41 Start: 23003, Stop: 23479, Start Num: 51

Candidate Starts for Sunfish_41:

(Start: 51 @23003 has 57 MA's), (Start: 76 @23084 has 9 MA's), (136, 23234), (164, 23288), (170, 23306), (178, 23333),

Gene: Sunny_ Start: 21449, Stop: 21856, Start Num: 78

Candidate Starts for Sunny_:

(Start: 78 @21449 has 56 MA's), (122, 21587), (126, 21602), (130, 21614), (133, 21620), (160, 21662),
(205, 21770), (214, 21812), (219, 21833),

Gene: SwainyDoc_26 Start: 19361, Stop: 19774, Start Num: 89

Candidate Starts for SwainyDoc_26:

(Start: 89 @19361 has 51 MA's), (113, 19436), (124, 19481), (125, 19487), (178, 19619), (219, 19745),

Gene: SynergyX_26 Start: 19364, Stop: 19777, Start Num: 89

Candidate Starts for SynergyX_26:

(Start: 89 @19364 has 51 MA's), (113, 19439), (124, 19484), (125, 19490), (178, 19622), (219, 19748),

Gene: TP1604_19 Start: 19235, Stop: 19615, Start Num: 100

Candidate Starts for TP1604_19:

(14, 18785), (41, 19067), (Start: 100 @19235 has 9 MA's), (106, 19250), (120, 19292), (131, 19337), (168, 19427), (176, 19457), (192, 19508), (198, 19523), (206, 19550), (208, 19553),

Gene: Talia1610_87 Start: 52786, Stop: 53169, Start Num: 85

Candidate Starts for Talia1610_87:

(Start: 85 @52786 has 6 MA's), (Start: 100 @52825 has 9 MA's), (130, 52927), (141, 52951), (151, 52972), (163, 53002), (166, 53011), (194, 53065), (203, 53092), (206, 53104),

Gene: Tangent_30 Start: 22736, Stop: 23170, Start Num: 83

Candidate Starts for Tangent_30:

(68, 22706), (Start: 83 @22736 has 112 MA's), (112, 22820), (134, 22895), (145, 22919), (174, 22997), (210, 23090), (220, 23141),

Gene: Tangerine_29 Start: 21738, Stop: 22172, Start Num: 83

Candidate Starts for Tangerine_29:

(Start: 78 @21729 has 56 MA's), (Start: 83 @21738 has 112 MA's), (112, 21822), (134, 21897), (174, 21999), (183, 22020), (205, 22077), (210, 22092), (220, 22143),

Gene: Tank_28 Start: 19505, Stop: 19984, Start Num: 52

Candidate Starts for Tank_28:

(Start: 52 @19505 has 3 MA's), (53, 19508), (182, 19853), (210, 19913), (220, 19964),

Gene: Tardus_31 Start: 22245, Stop: 22676, Start Num: 83

Candidate Starts for Tardus_31:

(71, 22218), (Start: 83 @22245 has 112 MA's), (112, 22329), (123, 22374), (134, 22404), (174, 22506), (176, 22512), (183, 22527), (205, 22584), (210, 22599), (219, 22647), (220, 22650),

Gene: Teamocil_34 Start: 19277, Stop: 19687, Start Num: 74

Candidate Starts for Teamocil_34:

(Start: 74 @19277 has 2 MA's), (Start: 78 @19283 has 56 MA's), (Start: 86 @19298 has 12 MA's), (126, 19433), (130, 19445), (160, 19493), (189, 19565), (191, 19568), (205, 19601), (210, 19616), (214, 19643), (224, 19682),

Gene: Teehee_34 Start: 22869, Stop: 23273, Start Num: 51

Candidate Starts for Teehee_34:

(32, 22812), (Start: 51 @22869 has 57 MA's), (61, 22905), (128, 23079), (136, 23100), (172, 23145), (175, 23154), (219, 23259), (223, 23268),

Gene: Tempo_32 Start: 21006, Stop: 21401, Start Num: 51

Candidate Starts for Tempo_32:

(Start: 51 @21006 has 57 MA's), (63, 21048), (66, 21057), (114, 21165), (174, 21288), (186, 21306), (219, 21393),

Gene: Terij_29 Start: 18831, Stop: 19235, Start Num: 78

Candidate Starts for Terij_29:

(12, 18411), (13, 18423), (15, 18513), (16, 18546), (27, 18663), (29, 18672), (37, 18699), (Start: 50 @18741 has 1 MA's), (59, 18774), (64, 18792), (Start: 78 @18831 has 56 MA's), (90, 18852), (95, 18873), (99, 18888), (122, 18966), (126, 18981), (191, 19116), (193, 19119), (205, 19146), (214, 19188), (216, 19200),

Gene: Thing3_29 Start: 23229, Stop: 23663, Start Num: 83

Candidate Starts for Thing3_29:

(68, 23199), (Start: 83 @23229 has 112 MA's), (112, 23313), (134, 23388), (145, 23412), (174, 23490), (183, 23511), (210, 23583), (220, 23634),

Gene: Tiamoceli_28 Start: 20458, Stop: 20889, Start Num: 83

Candidate Starts for Tiamoceli_28:

(31, 20290), (Start: 83 @20458 has 112 MA's), (112, 20542), (134, 20617), (181, 20737), (188, 20752), (210, 20812), (213, 20821), (219, 20860), (220, 20863),

Gene: TillyBobJoe_26 Start: 17354, Stop: 17797, Start Num: 83

Candidate Starts for TillyBobJoe_26:

(Start: 83 @17354 has 112 MA's), (174, 17615), (220, 17771),

Gene: TinyTerror_26 Start: 19361, Stop: 19774, Start Num: 89

Candidate Starts for TinyTerror_26:

(Start: 89 @19361 has 51 MA's), (124, 19481), (125, 19487), (147, 19535), (178, 19619), (219, 19745),

Gene: Tissue_33 Start: 22386, Stop: 22790, Start Num: 51

Candidate Starts for Tissue_33:

(Start: 51 @22386 has 57 MA's), (56, 22398), (128, 22596), (136, 22617), (172, 22662), (175, 22671), (219, 22776), (223, 22785),

Gene: Togo_26 Start: 17570, Stop: 18013, Start Num: 83

Candidate Starts for Togo_26:

(Start: 83 @17570 has 112 MA's), (174, 17831), (220, 17987),

Gene: Tonitrus_40 Start: 27403, Stop: 27783, Start Num: 103

Candidate Starts for Tonitrus_40:

(Start: 83 @27346 has 112 MA's), (Start: 103 @27403 has 1 MA's), (113, 27433), (125, 27484), (146, 27529), (147, 27532), (156, 27547), (160, 27559), (190, 27637), (200, 27667), (203, 27670), (211, 27691),

Gene: TurkishDelight_25 Start: 21435, Stop: 21812, Start Num: 101

Candidate Starts for TurkishDelight_25:

(41, 21273), (67, 21360), (87, 21411), (Start: 101 @21435 has 4 MA's), (104, 21441), (106, 21447), (107, 21453), (131, 21534), (148, 21570), (152, 21582), (158, 21594), (173, 21648), (203, 21735), (206, 21747), (214, 21783),

Gene: Twister6_28 Start: 17997, Stop: 18440, Start Num: 83

Candidate Starts for Twister6_28:

(Start: 83 @17997 has 112 MA's), (174, 18258), (220, 18414),

Gene: Twonlo_25 Start: 19076, Stop: 19507, Start Num: 83

Candidate Starts for Twonlo_25:

(Start: 83 @19076 has 112 MA's), (112, 19160), (134, 19235), (181, 19355), (188, 19370), (210, 19430), (213, 19439), (219, 19478), (220, 19481),

Gene: Tycho_29 Start: 21827, Stop: 22261, Start Num: 83

Candidate Starts for Tycho_29:

(Start: 78 @21818 has 56 MA's), (Start: 83 @21827 has 112 MA's), (112, 21911), (134, 21986), (174, 22088), (183, 22109), (205, 22166), (210, 22181), (220, 22232),

Gene: Tydolla_26 Start: 20101, Stop: 20514, Start Num: 89

Candidate Starts for Tydolla_26:

(Start: 89 @20101 has 51 MA's), (124, 20221), (125, 20227), (147, 20275), (178, 20359), (219, 20485),

Gene: Tyrumbra_31 Start: 18504, Stop: 18908, Start Num: 78

Candidate Starts for Tyrumbra_31:

(Start: 78 @18504 has 56 MA's), (Start: 86 @18519 has 12 MA's), (94, 18543), (126, 18654), (130, 18666), (133, 18672), (160, 18714), (189, 18786), (191, 18789), (205, 18822), (214, 18864), (224, 18903),

Gene: Valary_29 Start: 18503, Stop: 18946, Start Num: 83

Candidate Starts for Valary_29:

(Start: 83 @18503 has 112 MA's), (174, 18764), (220, 18920),

Gene: VanDeWege_29 Start: 18378, Stop: 18821, Start Num: 83

Candidate Starts for VanDeWege_29:

(Start: 83 @18378 has 112 MA's), (174, 18639), (220, 18795),

Gene: Verity_29 Start: 23097, Stop: 23528, Start Num: 83

Candidate Starts for Verity_29:

(71, 23070), (Start: 83 @23097 has 112 MA's), (112, 23181), (121, 23211), (123, 23226), (134, 23256), (143, 23277), (174, 23358), (176, 23364), (188, 23391), (205, 23436), (210, 23451), (219, 23499), (220, 23502),

Gene: ViaConlectus_30 Start: 21588, Stop: 22019, Start Num: 83

Candidate Starts for ViaConlectus_30:

(62, 21528), (71, 21561), (Start: 83 @21588 has 112 MA's), (123, 21717), (134, 21747), (174, 21849), (176, 21855), (183, 21870), (205, 21927), (210, 21942), (219, 21990), (220, 21993),

Gene: Viceroy_32 Start: 21635, Stop: 22048, Start Num: 51

Candidate Starts for Viceroy_32:

(32, 21578), (Start: 51 @21635 has 57 MA's), (61, 21671), (114, 21794), (170, 21911), (175, 21926),

Gene: Vivi2_32 Start: 23909, Stop: 24343, Start Num: 83

Candidate Starts for Vivi2_32:

(68, 23879), (Start: 83 @23909 has 112 MA's), (112, 23993), (134, 24068), (145, 24092), (174, 24170), (183, 24191), (210, 24263), (220, 24314),

Gene: WaddleDee_75 Start: 48766, Stop: 49110, Start Num: 100

Candidate Starts for WaddleDee_75:

(Start: 86 @48730 has 12 MA's), (Start: 100 @48766 has 9 MA's), (125, 48853), (154, 48916), (163, 48943), (166, 48952), (208, 49048),

Gene: Wayne3_34 Start: 22632, Stop: 23036, Start Num: 51

Candidate Starts for Wayne3_34:

(32, 22575), (Start: 51 @22632 has 57 MA's), (61, 22668), (128, 22842), (136, 22863), (172, 22908), (175, 22917), (219, 23022), (223, 23031),

Gene: WheelerS25_38 Start: 23392, Stop: 23796, Start Num: 51

Candidate Starts for WheelerS25_38:

(32, 23335), (Start: 51 @23392 has 57 MA's), (128, 23602), (136, 23623), (172, 23668), (175, 23677), (219, 23782), (223, 23791),

Gene: Wheelie_32 Start: 21950, Stop: 22354, Start Num: 51

Candidate Starts for Wheelie_32:

(32, 21893), (Start: 51 @21950 has 57 MA's), (61, 21986), (128, 22160), (136, 22181), (172, 22226), (175, 22235), (219, 22340), (223, 22349),

Gene: Wilca_32 Start: 20827, Stop: 21222, Start Num: 51

Candidate Starts for Wilca_32:

(Start: 51 @20827 has 57 MA's), (63, 20869), (66, 20878), (114, 20986), (186, 21127), (215, 21196), (219, 21214),

Gene: Wilde_28 Start: 19434, Stop: 19913, Start Num: 52

Candidate Starts for Wilde_28:

(Start: 52 @19434 has 3 MA's), (53, 19437), (182, 19782), (210, 19842), (220, 19893),

Gene: Wizard_26 Start: 17704, Stop: 18147, Start Num: 83

Candidate Starts for Wizard_26:

(Start: 83 @17704 has 112 MA's), (174, 17965), (220, 18121),

Gene: Xkcd426_25 Start: 26648, Stop: 27025, Start Num: 101

Candidate Starts for Xkcd426_25:

(80, 26606), (Start: 101 @26648 has 4 MA's), (106, 26660), (131, 26747), (159, 26807), (176, 26867), (192, 26918), (206, 26960), (214, 26996),

Gene: YDN12_20 Start: 19174, Stop: 19551, Start Num: 101

Candidate Starts for YDN12_20:

(41, 19003), (Start: 101 @19174 has 4 MA's), (106, 19186), (113, 19207), (120, 19228), (131, 19273), (168, 19363), (176, 19393), (192, 19444), (198, 19459), (206, 19486), (208, 19489),

Gene: Yahalom_26 Start: 19376, Stop: 19789, Start Num: 89

Candidate Starts for Yahalom_26:

(Start: 89 @19376 has 51 MA's), (124, 19496), (125, 19502), (147, 19550), (178, 19634), (219, 19760),

Gene: Yeti_33 Start: 19382, Stop: 19786, Start Num: 78

Candidate Starts for Yeti_33:

(Start: 78 @19382 has 56 MA's), (Start: 83 @19391 has 112 MA's), (93, 19418), (94, 19421), (122, 19517), (126, 19532), (130, 19544), (133, 19550), (160, 19592), (191, 19667), (205, 19700), (214, 19742), (224, 19781),

Gene: Yinz_26 Start: 19402, Stop: 19815, Start Num: 89

Candidate Starts for Yinz_26:

(Start: 89 @19402 has 51 MA's), (113, 19477), (124, 19522), (125, 19528), (178, 19660), (219, 19786),

Gene: YorkOnyx_30 Start: 22083, Stop: 22517, Start Num: 76

Candidate Starts for YorkOnyx_30:

(Start: 76 @22083 has 9 MA's), (Start: 101 @22137 has 4 MA's), (112, 22167), (140, 22257), (143, 22263), (174, 22344), (183, 22365), (210, 22437), (220, 22488),

Gene: YungMoney_28 Start: 19070, Stop: 19513, Start Num: 83

Candidate Starts for YungMoney_28:

(Start: 83 @19070 has 112 MA's), (220, 19487),

Gene: Zagie_33 Start: 22073, Stop: 22486, Start Num: 51

Candidate Starts for Zagie_33:

(32, 22016), (Start: 51 @22073 has 57 MA's), (114, 22232), (170, 22349), (175, 22364),

Gene: Zapato_32 Start: 19227, Stop: 19631, Start Num: 78

Candidate Starts for Zapato_32:

(Start: 78 @19227 has 56 MA's), (96, 19272), (126, 19377), (130, 19389), (133, 19395), (160, 19437), (189, 19509), (191, 19512), (205, 19545), (214, 19587), (224, 19626),

Gene: ZestyBestie_31 Start: 21905, Stop: 22309, Start Num: 51

Candidate Starts for ZestyBestie_31:

(Start: 51 @21905 has 57 MA's), (56, 21917), (128, 22115), (136, 22136), (172, 22181), (175, 22190), (219, 22295), (223, 22304),

Gene: Zhafia_35 Start: 22428, Stop: 22832, Start Num: 51

Candidate Starts for Zhafia_35:

(32, 22371), (Start: 51 @22428 has 57 MA's), (61, 22464), (128, 22638), (136, 22659), (172, 22704), (175, 22713), (219, 22818), (223, 22827),

Gene: Zipp_29 Start: 22994, Stop: 23425, Start Num: 83

Candidate Starts for Zipp_29:

(71, 22967), (Start: 83 @22994 has 112 MA's), (121, 23108), (123, 23123), (134, 23153), (143, 23174), (174, 23255), (176, 23261), (188, 23288), (205, 23333), (210, 23348), (219, 23396), (220, 23399),

Gene: Zitch_31 Start: 20868, Stop: 21299, Start Num: 83

Candidate Starts for Zitch_31:

(71, 20841), (Start: 83 @20868 has 112 MA's), (112, 20952), (123, 20997), (134, 21027), (143, 21048), (174, 21129), (176, 21135), (183, 21150), (205, 21207), (210, 21222), (219, 21270), (220, 21273),

Gene: Zooman_79 Start: 48365, Stop: 48775, Start Num: 75

Candidate Starts for Zooman_79:

(Start: 75 @48365 has 2 MA's), (84, 48386), (Start: 100 @48425 has 9 MA's), (110, 48452), (113, 48461), (118, 48479), (141, 48551), (200, 48692), (209, 48713),

Gene: phiAsp2_21 Start: 13673, Stop: 14086, Start Num: 86

Candidate Starts for phiAsp2_21:

(Start: 86 @13673 has 12 MA's), (105, 13724), (115, 13754), (125, 13796), (141, 13832), (153, 13856), (156, 13859), (160, 13871), (198, 13964), (208, 13994),