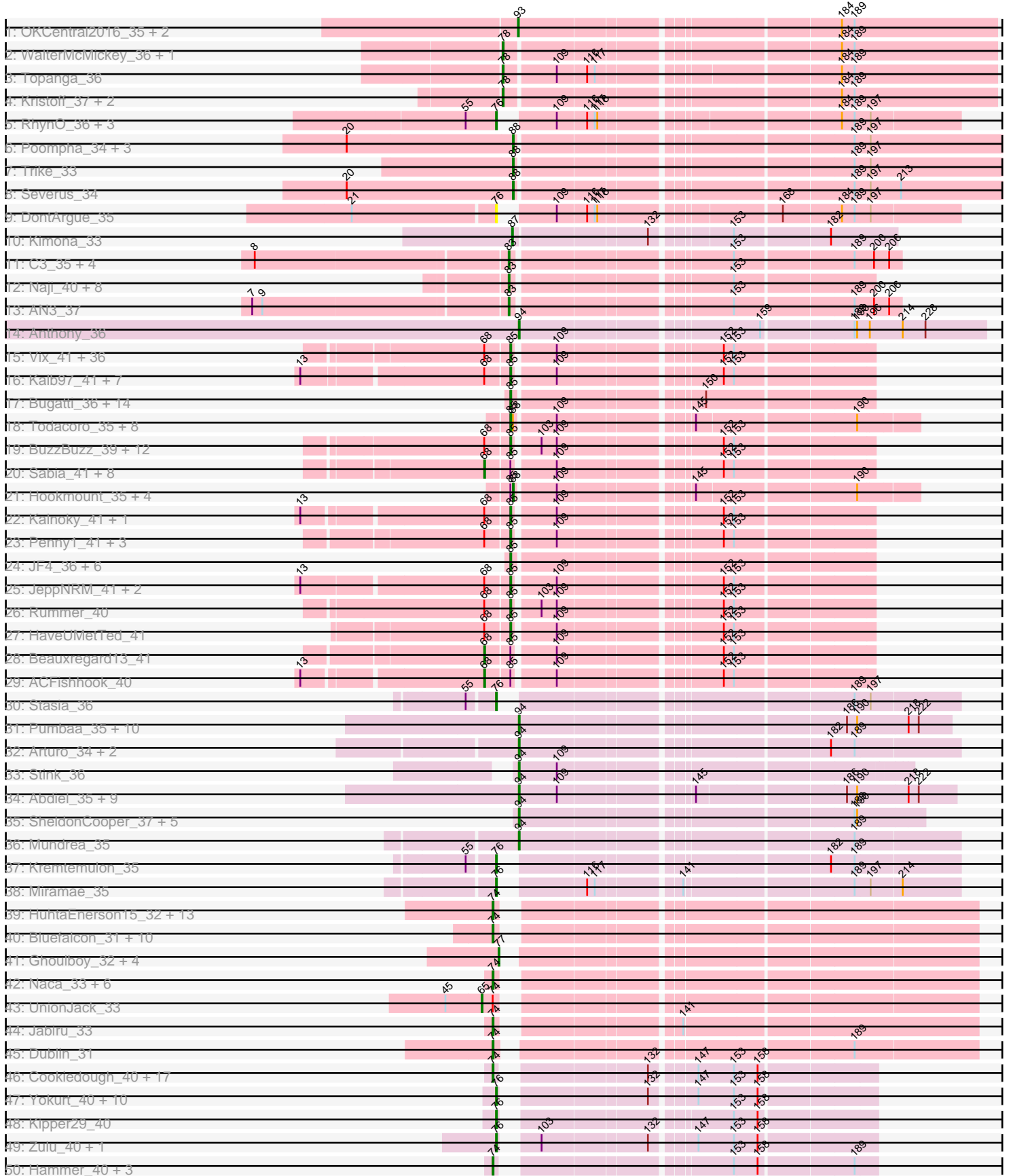
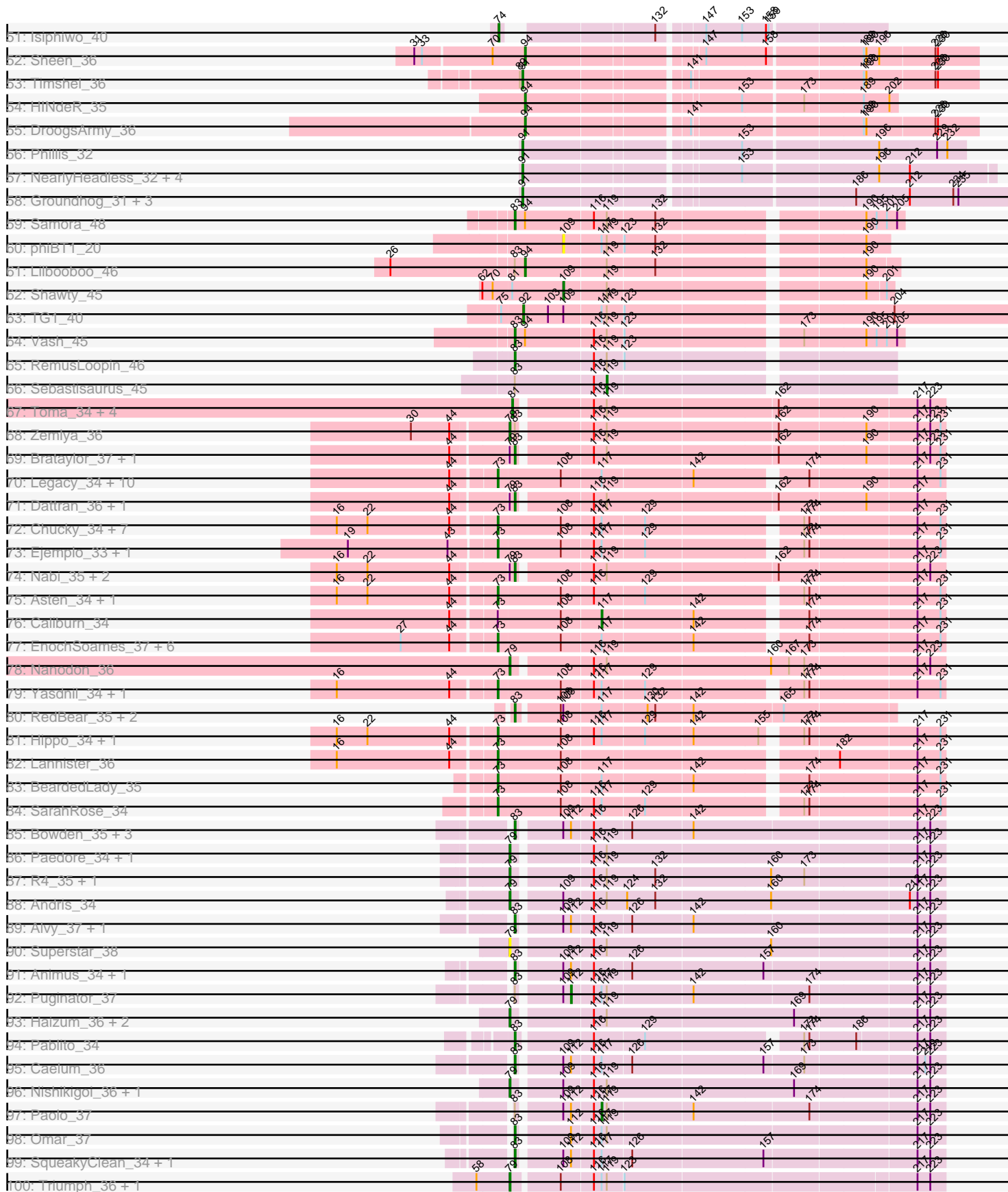


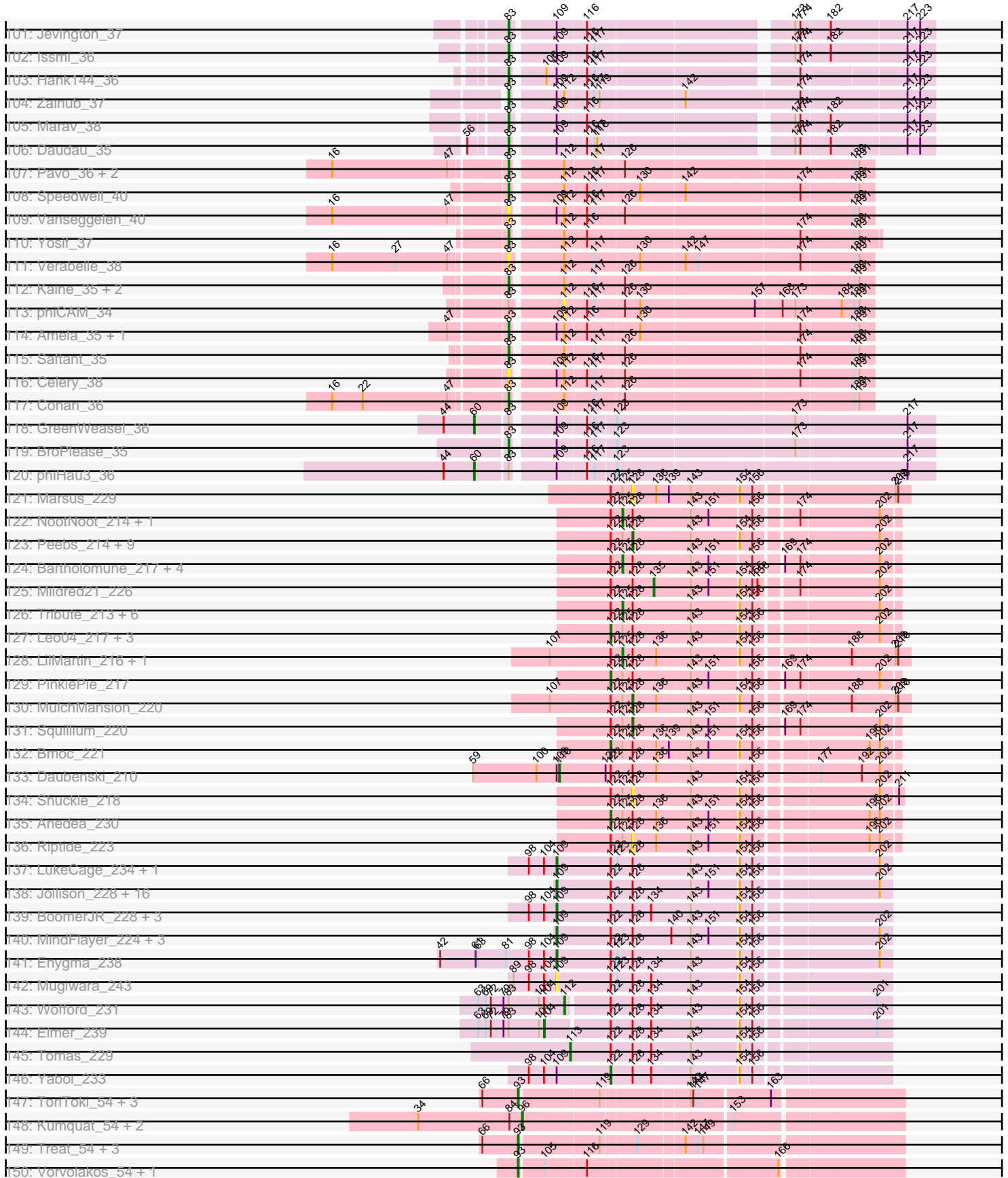
Pham 215670



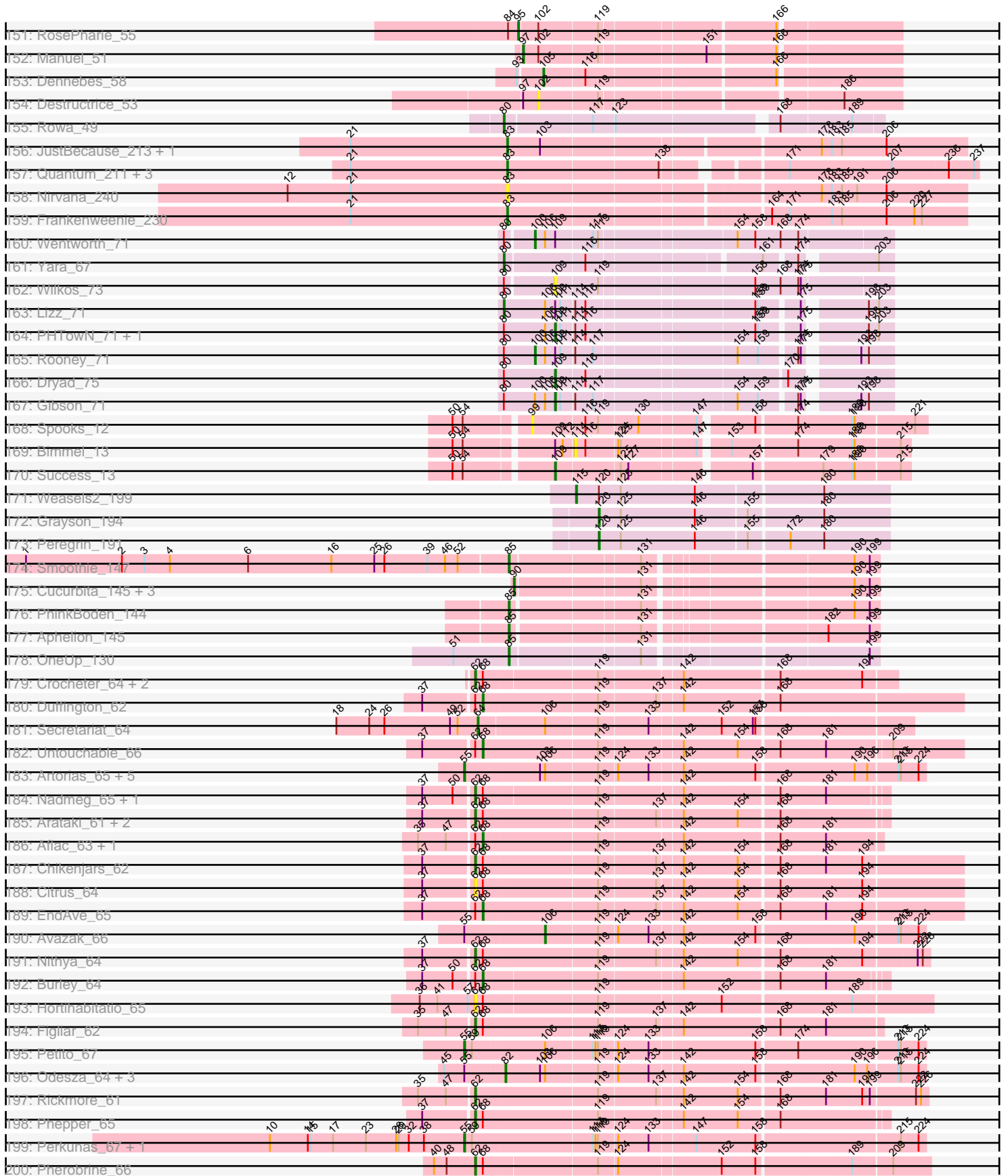
Pham 215670



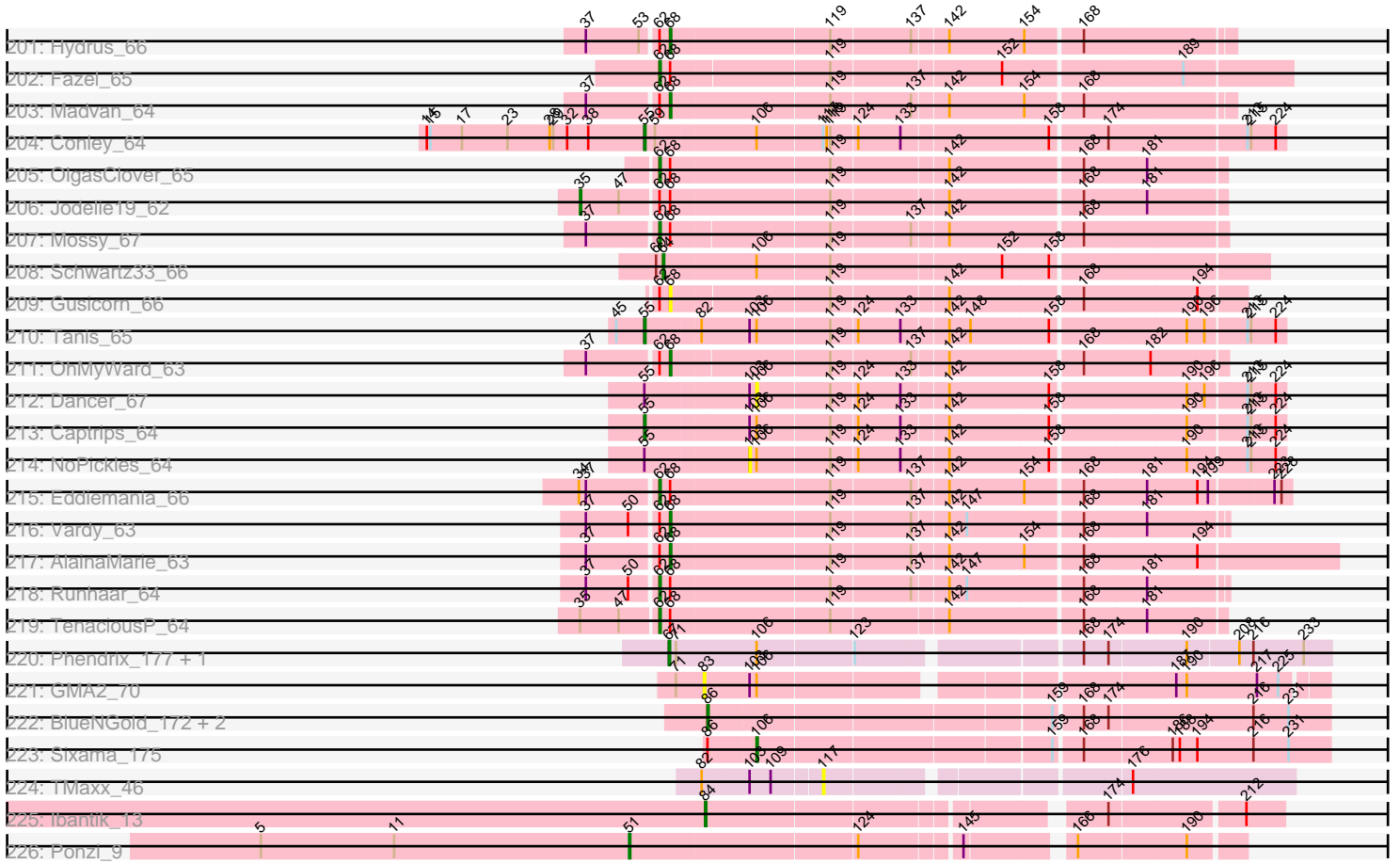
Pham 215670



Pham 215670



Pham 215670



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 215670 Report

This analysis was run 02/22/25 on database version 588.

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 215670 has 583 members, 44 are drafts.

Phages represented in each track:

- Track 1 : OKCentral2016_35, Chupacabra_35, Goose_36
- Track 2 : WalterMcMickey_36, Twister_36
- Track 3 : Topanga_36
- Track 4 : Kristoff_37, Edison31_36, Rebeuca_37
- Track 5 : RhynO_36, Shapes_39, Rowdy_39, DustyMartin_39
- Track 6 : Poompha_34, PeaceMeal1_34, Drake94_34, KittenMittens_33
- Track 7 : Trike_33
- Track 8 : Severus_34
- Track 9 : DontArgue_35
- Track 10 : Kimona_33
- Track 11 : C3_35, AN9_40, VC3_40, VA6_37, ANI8_40
- Track 12 : Naji_40, D29_36.1, Kerberos_40, StarStuff_40, Tomathan_40, D32_40, DBQu4n_40, Duplo_40, Pomar16_40
- Track 13 : AN3_37
- Track 14 : Anthony_36
- Track 15 : Vix_41, Microwolf_41, Dieselweasel_41, MuchMore_43, DaHudson_41, Phoebe_41, JHC117_41, GtownJaz_41, Grif_41, Jobu08_40, Taurus_41, Marie_41, Aglet_41, Tiffany_41, MarQuardt_41, Malinsilva_43, Mainiac_41, Cullens_41, Stagni_41, Fernando_41, Lilith_41, AugsMagnumOpus_43, Pembroke_41, Anubis_43, P28Green_41, JenCasNa_41, SoilDragon_40, MadMarie_41, Sabinator_40, StepMih_41, Zetzy_40, LugYA_43, Ollie_41, BreSam8_41, PGHhamlin_43, Farber_41, OlanP_40
- Track 16 : Kalb97_41, Reba_41, Manu_41, Groupthink_41, Phranny_41, PhishRPhriends_39, PurpleHaze_40, Gemma_40
- Track 17 : Bugatti_36, TNguyen7_36, Pistachio_37, Heathen_36, MA5_36, Fred313_36, SaturnRing_36, BlueBird_37, Kachowdy_36, HelDan_36, Marchesa_36, Puppy_37, Scout_36, BabyRay_36, Idleandcovert_36
- Track 18 : Todacoro_35, Texage_34, Margo_35, QuinnKiro_34, Noella_35, ResDef_35, Norbert_34, Panamaxus_34, Veracruz_34
- Track 19 : BuzzBuzz_39, Daishi_39, Soshari_42, Louie6_40, LarryKay_40, Spike509_40, Methuselah_39, HashRod_41, Bx2_38, Misomonster_42, KADY_41, Phoxy_40, AgronaGT15_40

- Track 20 : Sabia_41, Grum1_41, GingkoMaracino_41, Watson_41, SoYo_41, Grub_41, MoneyMay_41, Wooldri_43, Hercules11_41
- Track 21 : Hookmount_35, Lambert1_35, Popcicle_35, Caviar_35, Pocahontas_35
- Track 22 : Kalnoky_41, Marius_41
- Track 23 : Penny1_41, EpicPhail_41, LBerry_41, PotatoSplit_42
- Track 24 : JF4_36, JF2_36, MK4_36, Isca_36, Rockstar_36, Phantastic_36, B1_34
- Track 25 : JeppNRM_41, Pawn_40, Heliosoles_40
- Track 26 : Rummer_40
- Track 27 : HaveUMetTed_41
- Track 28 : Beauxregard13_41
- Track 29 : ACFishhook_40
- Track 30 : Stasia_36
- Track 31 : Pumbaa_35, Phontbonne_35, Medusa_36, Melvin_37, Phelipe_36, TinaFeyge_36, Nyxis_35, TroyPia_36, Commander_36, Ulysses_34, LittleGuy_35
- Track 32 : Arturo_34, Kratak_35, Iracema64_36
- Track 33 : Stink_36
- Track 34 : Abdiel_35, Maxo_36, BellusTerra_36, Eurydice_36, Eagle_35, Ohfah_36, Sparxx_36, Nebs_36, Polymorphads_36, Morrow_36
- Track 35 : SheldonCooper_37, ChampagnePapi_37, BangNhom_36, Obama12_37, LHTSCC_37, Cerulean_37
- Track 36 : Mundrea_35
- Track 37 : Kremtemulon_35
- Track 38 : Miramae_35
- Track 39 : HuhtaEnerson15_32, George_31, LittleCherry_32, Coog_32, Bonamassa_32, Archetta_32, Prinash11_33, Cuco_32, Milcery_32, Twigg_32, Tarynearal_31, Theia_30, Midas2_32, MarysWell_31
- Track 40 : Bluefalcon_31, Discoknowium_32, Lev2_32, AgentM_32, Aragog_32, Conspiracy_32, Tiger_32, Phlorence_32, ForGetIt_32, Jovo_32, PickleBack_32
- Track 41 : Ghoulboy_32, Micasa_32, Zolita_31, SydNat_32, Swirley_32
- Track 42 : Naca_33, Airmid_33, EITiger69_33, Scorpia_34, Benedict_33, PetterN_34, Chadwick_34
- Track 43 : UnionJack_33
- Track 44 : Jabiru_33
- Track 45 : Dublin_31
- Track 46 : Cookiedough_40, BABullseye_40, Gruunaga_40, Dorothea_40, Kazan_41, Blinn1_41, Gladiator_40, SuperAwesome_40, Indra_42, McFly_40, Newrala_40, Hoot_40, Roksolana_41, VohminGhazi_40, JewelBug_41, Neeharika16_40, Jordennis_40, SmellyB_40
- Track 47 : Yokurt_40, Artemis2UCLA_40, WunderPhul_40, Priamo_41, Zaka_40, Hexamo_40, Jeffabunny_40, Lilbunny_39, Wiks_39, ToneTone_37, CloudWang3_40
- Track 48 : Kipper29_40
- Track 49 : Zulu_40, Tucker_40
- Track 50 : Hammer_40, Koko_40, Rifter_40, Blue7_41
- Track 51 : Isiphiwo_40
- Track 52 : Sheen_36
- Track 53 : Timshel_36
- Track 54 : HINdeR_35
- Track 55 : DroogsArmy_36
- Track 56 : Phillis_32
- Track 57 : NearlyHeadless_32, Stephig9_32, Danforth_31, Roary_32, Expelliarmus_31
- Track 58 : Groundhog_31, Astro_32, Dixon_32, Smeadley_32
- Track 59 : Samora_48

- Track 60 : phiBT1_20
- Track 61 : Lilbooboo_46
- Track 62 : Shawty_45
- Track 63 : TG1_40
- Track 64 : Vash_45
- Track 65 : RemusLoopin_46
- Track 66 : Sebastisaurus_45
- Track 67 : Toma_34, Lika_34, Goby_34, Sujidade_35, Godpower_35
- Track 68 : Zemlya_36
- Track 69 : Brataylor_37, Danzina_36
- Track 70 : Legacy_34, Esperer_34, Bovely_34, Hydra_36, Unstoppable_34, Leviticus_34, Aaronocolus_34, Ozzie_34, SunsetPointe_34, Indigo_33, Phettuccine_34
- Track 71 : Dattran_36, Celeste_35
- Track 72 : Chucky_34, BarryBee_37, OzzyJ_35, TagePhighter_36, Triste_34, Snorlax_34, Dwayne_34, Emaanora_37
- Track 73 : Ejemplo_33, TuanPN_33
- Track 74 : Nabi_35, Lorelei_35, Rana_35
- Track 75 : Asten_34, Whatever_34
- Track 76 : Caliburn_34
- Track 77 : EnochSoames_37, Izzy_35, Eddasa_35, Oliynyk_35, Rusticus_35, BryanRecycles_35, Jash_35
- Track 78 : Nanodon_36
- Track 79 : Yasdnil_34, Maneekul_34
- Track 80 : RedBear_35, Katalie_34, South40_34
- Track 81 : Hippo_34, Werner_34
- Track 82 : Lannister_36
- Track 83 : BeardedLady_35
- Track 84 : SarahRose_34
- Track 85 : Bowden_35, Thestral_36, TinaBelcher_35, TrvxScott_34
- Track 86 : Paedore_34, Loofah_35
- Track 87 : R4_35, ELB20_33
- Track 88 : Andris_34
- Track 89 : Alvy_37, BartholomewSD_37
- Track 90 : Superstar_38
- Track 91 : Animus_34, GirlDinner_34
- Track 92 : Puginator_37
- Track 93 : Haizum_36, Diane_34, Amethyst_34
- Track 94 : Pablito_34
- Track 95 : Caelum_36
- Track 96 : Nishikigoi_36, Tefunt_36
- Track 97 : Paolo_37
- Track 98 : Omar_37
- Track 99 : SqueakyClean_34, Janus_35
- Track 100 : Triumph_36, Axiom_37
- Track 101 : Jevington_37
- Track 102 : Issmi_36
- Track 103 : Hank144_36
- Track 104 : Zainub_37
- Track 105 : Marav_38
- Track 106 : Daudau_35
- Track 107 : Pavo_36, ElGato_36, Provolone_36
- Track 108 : Speedwell_40

- Track 109 : Vanseggelen_40
- Track 110 : Yosif_37
- Track 111 : Verabelle_38
- Track 112 : Kaine_35, Dexers_34, Alsaber_36
- Track 113 : phiCAM_34
- Track 114 : Amela_35, Verse_35
- Track 115 : Saftant_35
- Track 116 : Celery_38
- Track 117 : Conan_36
- Track 118 : GreenWeasel_36
- Track 119 : BroPlease_35
- Track 120 : phiHau3_36
- Track 121 : Marsus_229
- Track 122 : NootNoot_214, Paradiddles_209
- Track 123 : Peebs_214, Teutsch_216, Evy_207, Pepperwood_217, EGole_220, BlueOtter_215, PacManQ_213, Lululemon_213, HangryHippo_215, Cross_216
- Track 124 : Bartholomune_217, Persimmon_220, Navo_211, WhereRU_216, Braelyn_213
- Track 125 : Mildred21_226
- Track 126 : Tribute_213, Sushi23_217, Watermoore_216, Cursive_219, Larnav_216, Samisti12_221, Scheme_220
- Track 127 : Leo04_217, Targaryen_216, Jay2Jay_222, Warpy_220
- Track 128 : LilMartin_216, Angela_219
- Track 129 : PinkiePie_217
- Track 130 : MulchMansion_220
- Track 131 : Squillium_220
- Track 132 : Bmoc_221
- Track 133 : Daubenski_210
- Track 134 : Shuckle_218
- Track 135 : Anedea_230
- Track 136 : Riptide_223
- Track 137 : LukeCage_234, StarPlatinum_238
- Track 138 : Jollison_228, Rikishi_239, Wipeout_221, Battuta_229, Quaran19_231, PumpkinSpice_234, Starbow_228, JimJam_238, Spelly_236, Karimac_231, SaltySpitoon_231, Spilled_238, TomSawyer_235, Gibbi_239, Bordeaux_229, KentuckyRacer_237, CeilingFan_235
- Track 139 : BoomerJR_228, Stanimal_228, Genie2_228, Sollertia_229
- Track 140 : MindFlayer_224, Amabiko_235, Birchlyn_230, IchabodCrane_225
- Track 141 : Enygma_238
- Track 142 : Mugiwara_243
- Track 143 : Wofford_231
- Track 144 : Elmer_239
- Track 145 : Tomas_229
- Track 146 : Yaboi_233
- Track 147 : ToriToki_54, HaugeAnator_54, Percastrophe_54, ZooBear_54
- Track 148 : Kumquat_54, Zeigle_54, WRightOn_58
- Track 149 : Treat_54, Olicious_54, Immanuel3_53, Romero_54
- Track 150 : Vorvolakos_54, Fabian_51
- Track 151 : RosePharie_55
- Track 152 : Manuel_51
- Track 153 : Dennebes_58
- Track 154 : Destructrice_53
- Track 155 : Rowa_49

- Track 156 : JustBecause_213, Kela_211
- Track 157 : Quantum_211, EhyElimayoE_215, Kradal_214, Satis_212
- Track 158 : Nirvana_240
- Track 159 : Frankenweenie_230
- Track 160 : Wentworth_71
- Track 161 : Yara_67
- Track 162 : Wilkos_73
- Track 163 : Lizz_71
- Track 164 : PHTowN_71, ShakeNBake_71
- Track 165 : Rooney_71
- Track 166 : Dryad_75
- Track 167 : Gibson_71
- Track 168 : Spooks_12
- Track 169 : Bimmel_13
- Track 170 : Success_13
- Track 171 : Weasels2_199
- Track 172 : Grayson_194
- Track 173 : Peregrin_191
- Track 174 : Smoothie_147
- Track 175 : Cucurbita_145, Culver_146, Toniann_146, Lozinak_146
- Track 176 : PhinkBoden_144
- Track 177 : Aphelion_145
- Track 178 : OneUp_130
- Track 179 : Crocheter_64, BetterYeti_66, ShaggyRogers_67
- Track 180 : Duffington_62
- Track 181 : Secretariat_64
- Track 182 : Untouchable_66
- Track 183 : Artorias_65, FortCran_65, Capybara_65, Kerry_64, Gravy_64, Trufflozitus_69
- Track 184 : Nadmeg_65, Kenosha_63
- Track 185 : Arataki_61, Demure_62, Zeph_66
- Track 186 : Aflac_63, MajinBuu_65
- Track 187 : Chikenjars_62
- Track 188 : Citrus_64
- Track 189 : EndAve_65
- Track 190 : Avazak_66
- Track 191 : Nithya_64
- Track 192 : Burley_64
- Track 193 : Hortihabitatio_65
- Track 194 : Figliar_62
- Track 195 : Petito_67
- Track 196 : Odesza_64, Roney_65, Magel_66, Gill_65
- Track 197 : Rickmore_61
- Track 198 : Phepper_65
- Track 199 : Perkunas_67, Talon44_68
- Track 200 : Pherobrine_66
- Track 201 : Hydrus_66
- Track 202 : Fazel_65
- Track 203 : Madvan_64
- Track 204 : Conley_64
- Track 205 : OlgasClover_65
- Track 206 : Jodelie19_62
- Track 207 : Mossy_67

- Track 208 : Schwartz33_66
- Track 209 : Gusicorn_66
- Track 210 : Tanis_65
- Track 211 : OhMyWard_63
- Track 212 : Dancer_67
- Track 213 : Captrips_64
- Track 214 : NoPickles_64
- Track 215 : Eddiemania_66
- Track 216 : Vardy_63
- Track 217 : AlainaMarie_63
- Track 218 : Runhaar_64
- Track 219 : TenaciousP_64
- Track 220 : Phendrix_177, GodonK_189
- Track 221 : GMA2_70
- Track 222 : BlueNGold_172, Mareelih_173, Boopy_175
- Track 223 : Sixama_175
- Track 224 : TMaxx_46
- Track 225 : Ibantik_13
- Track 226 : Ponzi_9

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

The start number called the most often in the published annotations is 85, it was called in 100 of the 539 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aglet_41, AgronaGT15_40, Anubis_43, Aphelion_145, AugsMagnumOpus_43, B1_34, BabyRay_36, BlueBird_37, BreSam8_41, Bugatti_36, BuzzBuzz_39, Bxz2_38, Cullens_41, DaHudson_41, Daishi_39, Dieselweasel_41, EpicPhail_41, Farber_41, Fernando_41, Fred313_36, Gemma_40, Grif_41, Groupthink_41, GtownJaz_41, HashRod_41, HaveUMetTed_41, Heathen_36, HelDan_36, Heliosoles_40, Idleandcovert_36, Isca_36, JF2_36, JF4_36, JHC117_41, JenCasNa_41, JeppNRM_41, Jobu08_40, KADY_41, Kachowdy_36, Kalb97_41, Kalnoky_41, LBerry_41, LarryKay_40, Lilith_41, Louie6_40, LugYA_43, MA5_36, MK4_36, MadMarie_41, Mainiac_41, Malinsilva_43, Manu_41, MarQuardt_41, Marchesa_36, Margo_35, Marie_41, Marius_41, Methuselah_39, Microwolf_41, Misomonster_42, MuchMore_43, Noella_35, Norbert_34, OlanP_40, Ollie_41, OneUp_130, P28Green_41, PGHhamlin_43, Panamaxus_34, Pawn_40, Pembroke_41, Penny1_41, Phantastic_36, PhinkBoden_144, PhishRPhriends_39, Phoebe_41, Phoxy_40, Phranny_41, Pistachio_37, PotatoSplit_42, Puppy_37, PurpleHaze_40, QuinnKiro_34, Reba_41, ResDef_35, Rockstar_36, Rummer_40, Sabinator_40, SaturnRing_36, Scout_36, Smoothie_147, SoilDragon_40, Soshari_42, Spike509_40, Stagni_41, StepMih_41, TNguyen7_36, Taurus_41, Texage_34, Tiffany_41, Todacoro_35, Veracruz_34, Vix_41, Zetzy_40,

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

- ACFishhook_40, Beauxregard13_41, Caviar_35, GingkoMaracino_41, Grub_41, Grum1_41, Hercules11_41, Hookmount_35, Lambert1_35, MoneyMay_41, Pocahontas_35, Popcicle_35, Sabia_41, SoYo_41, Watson_41, Wooldri_43,

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

• AN3_37, AN9_40, AN18_40, Aaronocolus_34, Abdiel_35, Aflac_63, AgentM_32, Airmid_33, AlainaMarie_63, Alsaber_36, Alvy_37, Amabiko_235, Amela_35, Amethyst_34, Andris_34, Anedea_230, Angela_219, Animus_34, Anthony_36, Aragog_32, Arataki_61, Archetta_32, Artemis2UCLA_40, Artorias_65, Arturo_34, Asten_34, Astro_32, Avazak_66, Axiom_37, BABullseye_40, BangNhom_36, BarryBee_37, BartholomewSD_37, Bartholomune_217, Battuta_229, BeardedLady_35, BellusTerra_36, Benedict_33, BetterYeti_66, Bimmel_13, Birchlyn_230, Blinn1_41, Blue7_41, BlueNGold_172, BlueOtter_215, Bluefalcon_31, Bmoc_221, Bonamassa_32, BoomerJR_228, Boopy_175, Bordeaux_229, Bovely_34, Bowden_35, Braelyn_213, Brataylor_37, BroPlease_35, BryanRecycles_35, Burley_64, C3_35, Caelum_36, Caliburn_34, Captrips_64, Capybara_65, CeilingFan_235, Celery_38, Celeste_35, Cerulean_37, Chadwick_34, ChampagnePapi_37, Chikenjars_62, Chucky_34, Chupacabra_35, Citrus_64, CloudWang3_40, Commander_36, Conan_36, Conley_64, Conspiracy_32, Coog_32, Cookiedough_40, Crocheter_64, Cross_216, Cuco_32, Cucurbita_145, Culver_146, Cursive_219, D29_36.1, D32_40, DBQu4n_40, Dancer_67, Danforth_31, Danzina_36, Dattran_36, Daubenski_210, Daudau_35, Demure_62, Dennebes_58, Destructrice_53, Dexers_34, Diane_34, Discoknowium_32, Dixon_32, DontArgue_35, Dorothea_40, Drake94_34, DroogsArmy_36, Dryad_75, Dublin_31, Duffington_62, Duplo_40, DustyMartin_39, Dwayne_34, EGole_220, ELB20_33, Eagle_35, Eddasa_35, Eddiemania_66, Edison31_36, EhyElimayoE_215, Ejemplo_33, ElGato_36, ElTiger69_33, Elmer_239, Emaanora_37, EndAve_65, EnochSoames_37, Enygma_238, Esperer_34, Eurydice_36, Evy_207, Expelliarmus_31, Fabian_51, Fazel_65, Figliar_62, ForGetIt_32, FortCran_65, Frankenweenie_230, GMA2_70, Genie2_228, George_31, Ghoulboy_32, Gibbi_239, Gibson_71, Gill_65, GirlDinner_34, Gladiator_40, Goby_34, GodonK_189, Godpower_35, Goose_36, Gravy_64, Grayson_194, GreenWeasel_36, Groundhog_31, Gruunaga_40, Gusicorn_66, HINdeR_35, Haizum_36, Hammer_40, HangryHippo_215, Hank144_36, HaugeAnator_54, Hexamo_40, Hippo_34, Hoot_40, Hortihabitatio_65, HuhtaEnerson15_32, Hydra_36, Hydrus_66, Ibantik_13, IchabodCrane_225, Immanuel3_53, Indigo_33, Indra_42, Iracema64_36, Isiphiwo_40, Issmi_36, Izzy_35, Jabiru_33, Janus_35, Jash_35, Jay2Jay_222, Jeffabunny_40, Jevington_37, JewelBug_41, JimJam_238, Jodelie19_62, Jollison_228, Jordennis_40, Jovo_32, JustBecause_213, Kaine_35, Karimac_231, Katalie_34, Kazan_41, Kela_211, Kenosha_63, KentuckyRacer_237, Kerberos_40, Kerry_64, Kimona_33, Kipper29_40, KittenMittens_33, Koko_40, Kradal_214, Kratak_35, Kremtemulon_35, Kristoff_37, Kumquat_54, LHTSCC_37, Lannister_36, Larnav_216, Legacy_34, Leo04_217, Lev2_32, Leviticus_34, Lika_34, LilMartin_216, Lilbooboo_46, Lilbunny_39, LittleCherry_32, LittleGuy_35, Lizz_71, Loofah_35, Lorelei_35, Lozinak_146, LukeCage_234, Lululemon_213, Madvan_64, Magel_66, MajinBuu_65, Maneekul_34, Manuel_51, Marav_38, Mareelih_173, Marsus_229, MarysWell_31, Maxo_36, McFly_40, Medusa_36, Melvin_37, Micasa_32, Midas2_32, Milcery_32, Mildred21_226, MindFlayer_224, Miramae_35, Morrow_36, Mossy_67, Mugiwara_243, MulchMansion_220, Mundrea_35, Nabi_35, Naca_33, Nadmeg_65, Naji_40, Nanodon_36, Navo_211, NearlyHeadless_32, Nebs_36, Neeharika16_40, Newrala_40, Nirvana_240, Nishikigoi_36, Nithya_64, NoPickles_64, NootNoot_214, Nyxis_35, OKCentral2016_35, Obama12_37, Odesza_64, OhMyWard_63, Ohfah_36, OlgasClover_65, Olicious_54, Oliynyk_35, Omar_37, Ozzie_34, OzzyJ_35, PHTown_71, Pablito_34, PacManQ_213, Paedore_34, Paolo_37, Paradiddles_209, Pavo_36, PeaceMeal1_34, Peebs_214, Pepperwood_217, Percastrophe_54, Peregrin_191, Perkunas_67, Persimmon_220, Petito_67, PetterN_34, Phelipe_36, Phendrix_177, Phepper_65, Pherobrine_66, Phettuccine_34, Phillis_32,

Phlorence_32, Phontbonne_35, PickleBack_32, PinkiePie_217, Polymorphads_36, Pomar16_40, Ponzi_9, Poompha_34, Priamo_41, Prinash11_33, Provolone_36, Puginator_37, Pumbaa_35, PumpkinSpice_234, Quantum_211, Quarant19_231, R4_35, Rana_35, Rebeuca_37, RedBear_35, RemusLoopin_46, RhynO_36, Rickmore_61, Rifter_40, Rikishi_239, Riptide_223, Roary_32, Roksolana_41, Romero_54, Roney_65, Rooney_71, RosePharie_55, Rowa_49, Rowdy_39, Runhaar_64, Rusticus_35, Saftant_35, SaltySpitoon_231, Samisti12_221, Samora_48, SarahRose_34, Satis_212, Scheme_220, Schwartz33_66, Scorpia_34, Sebastisaurus_45, Secretariat_64, Severus_34, ShaggyRogers_67, ShakeNBake_71, Shapes_39, Shawty_45, Sheen_36, SheldonCooper_37, Shuckle_218, Sixama_175, Smeadley_32, SmellyB_40, Snorlax_34, Sollertia_229, South40_34, Sparxx_36, Speedwell_40, Spelly_236, Spilled_238, Spooks_12, SqueakyClean_34, Squillium_220, Stanimal_228, StarPlatinum_238, StarStuff_40, Starbow_228, Stasia_36, Stephig9_32, Stink_36, Success_13, Sujidade_35, SunsetPointe_34, SuperAwesome_40, Superstar_38, Sushi23_217, Swirley_32, SydNat_32, TG1_40, TMaxx_46, TagePhighter_36, Talon44_68, Tanis_65, Targaryen_216, Tarynearal_31, Tefunt_36, TenaciousP_64, Teutsch_216, Theia_30, Thestral_36, Tiger_32, Timshel_36, TinaBelcher_35, TinaFeyge_36, TomSawyer_235, Toma_34, Tomas_229, Tomathan_40, ToneTone_37, Toniann_146, Topanga_36, ToriToki_54, Treat_54, Tribute_213, Trike_33, Triste_34, Triumph_36, TroyPia_36, Trufflozitus_69, TrvxScott_34, TuanPN_33, Tucker_40, Twigg_32, Twister_36, Ulysses_34, UnionJack_33, Unstoppable_34, Untouchable_66, VA6_37, VC3_40, Vanseggelen_40, Vardy_63, Vash_45, Verabelle_38, Verse_35, VohminGhazi_40, Vorvolakos_54, WRightOn_58, WalterMcMickey_36, Warpy_220, Watermoore_216, Weasels2_199, Wentworth_71, Werner_34, Whatever_34, WhereRU_216, Wiks_39, Wilkos_73, Wipeout_221, Wofford_231, WunderPhul_40, Yaboi_233, Yara_67, Yasdnii_34, Yokurt_40, Yosif_37, Zainub_37, Zaka_40, Zeigle_54, Zemlya_36, Zeph_66, Zolita_31, ZooBear_54, Zulu_40, phiBT1_20, phiCAM_34, phiHau3_36,

Summary by start number:

Start 35:

- Found in 6 of 583 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Jodelie19_62 (DJ),

Start 51:

- Found in 2 of 583 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ponzi_9 (singleton),

Start 55:

- Found in 25 of 583 (4.3%) of genes in pham
- Manual Annotations of this start: 10 of 539
- Called 48.0% of time when present
- Phage (with cluster) where this start called: Artorias_65 (DJ), Captrips_64 (DJ), Copybara_65 (DJ), Conley_64 (DJ), FortCran_65 (DJ), Gravy_64 (DJ), Kerry_64 (DJ), Perkunas_67 (DJ), Petito_67 (DJ), Talon44_68 (DJ), Tanis_65 (DJ), Trufflozitus_69 (DJ),

Start 60:

- Found in 3 of 583 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 539
- Called 66.7% of time when present
- Phage (with cluster) where this start called: GreenWeasel_36 (BD4), phiHau3_36 (BD4),

Start 62:

- Found in 36 of 583 (6.2%) of genes in pham
- Manual Annotations of this start: 16 of 539
- Called 61.1% of time when present
- Phage (with cluster) where this start called: Arataki_61 (DJ), BetterYeti_66 (DJ), Chikenjars_62 (DJ), Citrus_64 (DJ), Crocheter_64 (DJ), Demure_62 (DJ), Eddiemania_66 (DJ), Fazel_65 (DJ), Figliar_62 (DJ), Hortihabitatio_65 (DJ), Kenosha_63 (DJ), Mossy_67 (DJ), Nadmeg_65 (DJ), Nithya_64 (DJ), OlgasClover_65 (DJ), Phepper_65 (DJ), Pherobrine_66 (DJ), Rickmore_61 (DJ), Runhaar_64 (DJ), ShaggyRogers_67 (DJ), TenaciousP_64 (DJ), Zeph_66 (DJ),

Start 64:

- Found in 2 of 583 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schwartz33_66 (DJ), Secretariat_64 (DJ),

Start 65:

- Found in 1 of 583 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: UnionJack_33 (A5),

Start 67:

- Found in 2 of 583 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_189 (DK), Phendrix_177 (DK),

Start 68:

- Found in 114 of 583 (19.6%) of genes in pham
- Manual Annotations of this start: 21 of 539
- Called 20.2% of time when present
- Phage (with cluster) where this start called: ACFishhook_40 (A3), Aflac_63 (DJ), AlainaMarie_63 (DJ), Beauxregard13_41 (A3), Burley_64 (DJ), Duffington_62 (DJ), EndAve_65 (DJ), GingkoMaracino_41 (A3), Grub_41 (A3), Grum1_41 (A3), Gusicorn_66 (DJ), Hercules11_41 (A3), Hydrus_66 (DJ), Madvan_64 (DJ), MajinBuu_65 (DJ), MoneyMay_41 (A3), OhMyWard_63 (DJ), Sabia_41 (A3), SoYo_41 (A3), Untouchable_66 (DJ), Vardy_63 (DJ), Watson_41 (A3), Wooldri_43 (A3),

Start 73:

- Found in 38 of 583 (6.5%) of genes in pham
- Manual Annotations of this start: 36 of 539
- Called 97.4% of time when present

- Phage (with cluster) where this start called: Aaronocolus_34 (BD1), Asten_34 (BD1), BarryBee_37 (BD1), BeardedLady_35 (BD1), Bovely_34 (BD1), BryanRecycles_35 (BD1), Chucky_34 (BD1), Dwayne_34 (BD1), Eddasa_35 (BD1), Ejemplo_33 (BD1), Emaanora_37 (BD1), EnochSoames_37 (BD1), Esperer_34 (BD1), Hippo_34 (BD1), Hydra_36 (BD1), Indigo_33 (BD1), Izzy_35 (BD1), Jash_35 (BD1), Lannister_36 (BD1), Legacy_34 (BD1), Leviticus_34 (BD1), Maneekul_34 (BD1), Oliynyk_35 (BD1), Ozzie_34 (BD1), OzzyJ_35 (BD1), Phettuccine_34 (BD1), Rusticus_35 (BD1), SarahRose_34 (BD1), Snorlax_34 (BD1), SunsetPointe_34 (BD1), TagePhighter_36 (BD1), Triste_34 (BD1), TuanPN_33 (BD1), Unstoppable_34 (BD1), Werner_34 (BD1), Whatever_34 (BD1), Yasdnil_34 (BD1),

Start 74:

- Found in 58 of 583 (9.9%) of genes in pham
- Manual Annotations of this start: 55 of 539
- Called 98.3% of time when present
- Phage (with cluster) where this start called: AgentM_32 (A5), Airmid_33 (A5), Aragog_32 (A5), Archetta_32 (A5), BABullseye_40 (A6), Benedict_33 (A5), Blinn1_41 (A6), Blue7_41 (A6), Bluefalcon_31 (A5), Bonamassa_32 (A5), Chadwick_34 (A5), Conspiracy_32 (A5), Coog_32 (A5), Cookiedough_40 (A6), Cuco_32 (A5), Discoknowium_32 (A5), Dorothea_40 (A6), Dublin_31 (A5), EITiger69_33 (A5), ForGetIt_32 (A5), George_31 (A5), Gladiator_40 (A6), Gruunaga_40 (A6), Hammer_40 (A6), Hoot_40 (A6), HuhtaEnerson15_32 (A5), Indra_42 (A6), Isiphiwo_40 (A6), Jabiru_33 (A5), JewelBug_41 (A6), Jordennis_40 (A6), Jovo_32 (A5), Kazan_41 (A6), Koko_40 (A6), Lev2_32 (A5), LittleCherry_32 (A5), MarysWell_31 (A5), McFly_40 (A6), Midas2_32 (A5), Milcery_32 (A5), Naca_33 (A5), Neeharika16_40 (A6), Newrala_40 (A6), PetterN_34 (A5), Phlorence_32 (A5), PickleBack_32 (A5), Prinasha11_33 (A5), Rifter_40 (A6), Roksolana_41 (A6), Scorpia_34 (A5), SmellyB_40 (A6), SuperAwesome_40 (A6), Tarynearal_31 (A5), Theia_30 (A5), Tiger_32 (A5), Twigg_32 (A5), VohminGhazi_40 (A6),

Start 76:

- Found in 22 of 583 (3.8%) of genes in pham
- Manual Annotations of this start: 18 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_40 (A6), CloudWang3_40 (A6), DontArgue_35 (A10), DustyMartin_39 (A10), Hexamo_40 (A6), Jeffabunny_40 (A6), Kipper29_40 (A6), Kremtemulon_35 (A4), Lilbunny_39 (A6), Miramae_35 (A4), Priamo_41 (A6), RhynO_36 (A10), Rowdy_39 (A10), Shapes_39 (A10), Stasia_36 (A4), ToneTone_37 (A6), Tucker_40 (A6), Wiks_39 (A6), WunderPhul_40 (A6), Yokurt_40 (A6), Zaka_40 (A6), Zulu_40 (A6),

Start 77:

- Found in 5 of 583 (0.9%) of genes in pham
- Manual Annotations of this start: 5 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ghoulboy_32 (A5), Micasa_32 (A5), Swirley_32 (A5), SydNat_32 (A5), Zolita_31 (A5),

Start 78:

- Found in 6 of 583 (1.0%) of genes in pham
- Manual Annotations of this start: 6 of 539
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Edison31_36 (A10), Kristoff_37 (A10), Rebeuca_37 (A10), Topanga_36 (A10), Twister_36 (A10), WalterMcMickey_36 (A10),

Start 79:

- Found in 24 of 583 (4.1%) of genes in pham
- Manual Annotations of this start: 13 of 539
- Called 62.5% of time when present
- Phage (with cluster) where this start called: Amethyst_34 (BD2), Andris_34 (BD2), Axiom_37 (BD2), Diane_34 (BD2), ELB20_33 (BD2), Haizum_36 (BD2), Loofah_35 (BD2), Nanodon_36 (BD1), Nishikigoi_36 (BD2), Paedore_34 (BD2), R4_35 (BD2), Superstar_38 (BD2), Tefunt_36 (BD2), Triumph_36 (BD2), Zemlya_36 (BD1),

Start 80:

- Found in 10 of 583 (1.7%) of genes in pham
- Manual Annotations of this start: 3 of 539
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Lizz_71 (BN), Rowa_49 (BL), Yara_67 (BN),

Start 81:

- Found in 7 of 583 (1.2%) of genes in pham
- Manual Annotations of this start: 5 of 539
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Goby_34 (BD1), Godpower_35 (BD1), Lika_34 (BD1), Sujidade_35 (BD1), Toma_34 (BD1),

Start 82:

- Found in 6 of 583 (1.0%) of genes in pham
- Manual Annotations of this start: 4 of 539
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Gill_65 (DJ), Magel_66 (DJ), Odesza_64 (DJ), Roney_65 (DJ),

Start 83:

- Found in 82 of 583 (14.1%) of genes in pham
- Manual Annotations of this start: 67 of 539
- Called 87.8% of time when present
- Phage (with cluster) where this start called: AN3_37 (A2), AN9_40 (A2), ANI8_40 (A2), Alsaber_36 (BD3), Alvy_37 (BD2), Amela_35 (BD3), Animus_34 (BD2), BartholomewSD_37 (BD2), Bowden_35 (BD2), Brataylor_37 (BD1), BroPlease_35 (BD4), C3_35 (A2), Caelum_36 (BD2), Celery_38 (BD3), Celeste_35 (BD1), Conan_36 (BD3), D29_36.1 (A2), D32_40 (A2), DBQu4n_40 (A2), Danzina_36 (BD1), Dattran_36 (BD1), Daudau_35 (BD2), Dexers_34 (BD3), Duplo_40 (A2), EhyElimayoE_215 (BM), ElGato_36 (BD3), Frankenweenie_230 (BM), GMA2_70 (DS), GirlDinner_34 (BD2), Hank144_36 (BD2), Issmi_36 (BD2), Janus_35 (BD2), Jevington_37 (BD2), JustBecause_213 (BM), Kaine_35 (BD3), Katalie_34 (BD1), Kela_211 (BM), Kerberos_40 (A2), Kradal_214 (BM), Lorelei_35 (BD1), Marav_38 (BD2), Nabi_35 (BD1), Naji_40 (A2), Nirvana_240 (BM), Omar_37 (BD2), Pablito_34 (BD2), Pavo_36 (BD3), Pomar16_40 (A2), Provolone_36 (BD3), Quantum_211 (BM), Rana_35 (BD1), RedBear_35 (BD1), RemusLoopin_46 (BB2), Saftant_35 (BD3), Samora_48 (BB1), Satis_212 (BM), South40_34 (BD1), Speedwell_40 (BD3), SqueakyClean_34 (BD2), StarStuff_40 (A2), Thestral_36 (BD2), TinaBelcher_35 (BD2), Tomathan_40 (A2), TrvxScott_34 (BD2), VA6_37 (A2), VC3_40 (A2),

Vanseggelen_40 (BD3), Vash_45 (BB1), Verabelle_38 (BD3), Verse_35 (BD3), Yosif_37 (BD3), Zainub_37 (BD2),

Start 84:

- Found in 5 of 583 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Ibantik_13 (singleton),

Start 85:

- Found in 120 of 583 (20.6%) of genes in pham
- Manual Annotations of this start: 100 of 539
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Aglet_41 (A3), AgronaGT15_40 (A3), Anubis_43 (A3), Aphelion_145 (CQ1), AugsMagnumOpus_43 (A3), B1_34 (A3), BabyRay_36 (A3), BlueBird_37 (A3), BreSam8_41 (A3), Bugatti_36 (A3), BuzzBuzz_39 (A3), Bxz2_38 (A3), Cullens_41 (A3), DaHudson_41 (A3), Daishi_39 (A3), Dieselweasel_41 (A3), EpicPhail_41 (A3), Farber_41 (A3), Fernando_41 (A3), Fred313_36 (A3), Gemma_40 (A3), Grif_41 (A3), Groupthink_41 (A3), GtownJaz_41 (A3), HashRod_41 (A3), HaveUMetTed_41 (A3), Heathen_36 (A3), HelDan_36 (A3), Heliosoles_40 (A3), Idleandcovert_36 (A3), Isca_36 (A3), JF2_36 (A3), JF4_36 (A3), JHC117_41 (A3), JenCasNa_41 (A3), JeppNRM_41 (A3), Jobu08_40 (A3), KADY_41 (A3), Kachowdy_36 (A3), Kalb97_41 (A3), Kalnoky_41 (A3), LBerry_41 (A3), LarryKay_40 (A3), Lilith_41 (A3), Louie6_40 (A3), LugYA_43 (A3), MA5_36 (A3), MK4_36 (A3), MadMarie_41 (A3), Mainiac_41 (A3), Malinsilva_43 (A3), Manu_41 (A3), MarQuardt_41 (A3), Marchesa_36 (A3), Margo_35 (A3), Marie_41 (A3), Marius_41 (A3), Methuselah_39 (A3), Microwolf_41 (A3), Misomonster_42 (A3), MuchMore_43 (A3), Noella_35 (A3), Norbert_34 (A3), OlanP_40 (A3), Ollie_41 (A3), OneUp_130 (CQ2), P28Green_41 (A3), PGHhamlin_43 (A3), Panamaxus_34 (A3), Pawn_40 (A3), Pembroke_41 (A3), Penny1_41 (A3), Phantastic_36 (A3), PhinkBoden_144 (CQ1), PhishRPhriends_39 (A3), Phoebe_41 (A3), Phoxy_40 (A3), Phranny_41 (A3), Pistachio_37 (A3), PotatoSplit_42 (A3), Puppy_37 (A3), PurpleHaze_40 (A3), QuinnKiro_34 (A3), Reba_41 (A3), ResDef_35 (A3), Rockstar_36 (A3), Rummer_40 (A3), Sabinator_40 (A3), SaturnRing_36 (A3), Scout_36 (A3), Smoothie_147 (CQ1), SoilDragon_40 (A3), Soshari_42 (A3), Spike509_40 (A3), Stagni_41 (A3), StepMih_41 (A3), TNguyen7_36 (A3), Taurus_41 (A3), Texage_34 (A3), Tiffany_41 (A3), Todacoro_35 (A3), Veracruz_34 (A3), Vix_41 (A3), Zetsy_40 (A3),

Start 86:

- Found in 4 of 583 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 539
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_172 (DS), Boopy_175 (DS), Mareelih_173 (DS),

Start 87:

- Found in 1 of 583 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kimona_33 (A19),

Start 88:

- Found in 20 of 583 (3.4%) of genes in pham
- Manual Annotations of this start: 11 of 539
- Called 55.0% of time when present
- Phage (with cluster) where this start called: Caviar_35 (A3), Drake94_34 (A10), Hookmount_35 (A3), KittenMittens_33 (A10), Lambert1_35 (A3), PeaceMeal1_34 (A10), Pocahontas_35 (A3), Poompha_34 (A10), Popcicle_35 (A3), Severus_34 (A10), Trike_33 (A10),

Start 90:

- Found in 4 of 583 (0.7%) of genes in pham
- Manual Annotations of this start: 4 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cucurbita_145 (CQ1), Culver_146 (CQ1), Lozinak_146 (CQ1), Toniann_146 (CQ1),

Start 91:

- Found in 11 of 583 (1.9%) of genes in pham
- Manual Annotations of this start: 11 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro_32 (A8), Danforth_31 (A8), Dixon_32 (A8), Expelliarmus_31 (A8), Groundhog_31 (A8), NearlyHeadless_32 (A8), Phillis_32 (A8), Roary_32 (A8), Smeadley_32 (A8), Stephig9_32 (A8), Timshel_36 (A7),

Start 92:

- Found in 1 of 583 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TG1_40 (BB1),

Start 93:

- Found in 14 of 583 (2.4%) of genes in pham
- Manual Annotations of this start: 13 of 539
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Chupacabra_35 (A10), Fabian_51 (BF), Goose_36 (A10), HaugeAnator_54 (BF), Immanuel3_53 (BF), OKCentral2016_35 (A10), Olicious_54 (BF), Percastrophe_54 (BF), Romero_54 (BF), ToriToki_54 (BF), Treat_54 (BF), Vorvolakos_54 (BF), ZooBear_54 (BF),

Start 94:

- Found in 39 of 583 (6.7%) of genes in pham
- Manual Annotations of this start: 37 of 539
- Called 94.9% of time when present
- Phage (with cluster) where this start called: Abdiel_35 (A4), Anthony_36 (A20), Arturo_34 (A4), BangNhom_36 (A4), BellusTerra_36 (A4), Cerulean_37 (A4), ChampagnePapi_37 (A4), Commander_36 (A4), DroogsArmy_36 (A7), Eagle_35 (A4), Eurydice_36 (A4), HINdeR_35 (A7), Iracema64_36 (A4), Kratark_35 (A4), LHTSCC_37 (A4), Lilbooboo_46 (BB1), LittleGuy_35 (A4), Maxo_36 (A4), Medusa_36 (A4), Melvin_37 (A4), Morrow_36 (A4), Mundrea_35 (A4), Nebs_36 (A4), Nyxis_35 (A4), Obama12_37 (A4), Ohfah_36 (A4), Phelipe_36 (A4), Phontbonne_35 (A4), Polymorphads_36 (A4), Pumbaa_35 (A4), Sheen_36 (A7), SheldonCooper_37 (A4), Sparxx_36 (A4), Stink_36 (A4), TinaFeyge_36 (A4), TroyPia_36 (A4), Ulysses_34 (A4),

Start 95:

- Found in 1 of 583 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RosePharie_55 (BF),

Start 96:

- Found in 3 of 583 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumquat_54 (BF), WRightOn_58 (BF), Zeigle_54 (BF),

Start 97:

- Found in 2 of 583 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Manuel_51 (BF),

Start 99:

- Found in 1 of 583 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spooks_12 (BT),

Start 100:

- Found in 4 of 583 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 539
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Rooney_71 (BN), Wentworth_71 (BN),

Start 102:

- Found in 3 of 583 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Destructrice_53 (BF),

Start 103:

- Found in 35 of 583 (6.0%) of genes in pham
- No Manual Annotations of this start.
- Called 2.9% of time when present
- Phage (with cluster) where this start called: NoPickles_64 (DJ),

Start 104:

- Found in 11 of 583 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Elmer_239 (BE2),

Start 105:

- Found in 3 of 583 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 539

- Called 33.3% of time when present
- Phage (with cluster) where this start called: Dennebes_58 (BF),

Start 106:

- Found in 30 of 583 (5.1%) of genes in pham
- Manual Annotations of this start: 2 of 539
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Avazak_66 (DJ), Dancer_67 (DJ), Sixama_175 (DS),

Start 109:

- Found in 188 of 583 (32.2%) of genes in pham
- Manual Annotations of this start: 32 of 539
- Called 19.7% of time when present
- Phage (with cluster) where this start called: Amabiko_235 (BE2), Battuta_229 (BE2), Birchlyn_230 (BE2), BoomerJR_228 (BE2), Bordeaux_229 (BE2), CeilingFan_235 (BE2), Dryad_75 (BN), Enygma_238 (BE2), Genie2_228 (BE2), Gibbi_239 (BE2), Gibson_71 (BN), IchabodCrane_225 (BE2), JimJam_238 (BE2), Jollison_228 (BE2), Karimac_231 (BE2), KentuckyRacer_237 (BE2), LukeCage_234 (BE2), MindFlayer_224 (BE2), Mugiwara_243 (BE2), PHTown_71 (BN), PumpkinSpice_234 (BE2), Quarant19_231 (BE2), Rikishi_239 (BE2), SaltySpittoon_231 (BE2), ShakeNBake_71 (BN), Shawty_45 (BB1), Sollertia_229 (BE2), Spelly_236 (BE2), Spilled_238 (BE2), Stanimal_228 (BE2), StarPlatinum_238 (BE2), Starbow_228 (BE2), Success_13 (BT), TomSawyer_235 (BE2), Wilkos_73 (BN), Wipeout_221 (BE2), phiBT1_20 (BB1),

Start 110:

- Found in 1 of 583 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daubenski_210 (BE1),

Start 112:

- Found in 33 of 583 (5.7%) of genes in pham
- Manual Annotations of this start: 2 of 539
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Puginator_37 (BD2), Wofford_231 (BE2), phiCAM_34 (BD3),

Start 113:

- Found in 1 of 583 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tomas_229 (BE2),

Start 114:

- Found in 6 of 583 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Bimmel_13 (BT),

Start 115:

- Found in 1 of 583 (0.2%) of genes in pham

- Manual Annotations of this start: 1 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weasels2_199 (CB),

Start 117:

- Found in 84 of 583 (14.4%) of genes in pham
- Manual Annotations of this start: 2 of 539
- Called 3.6% of time when present
- Phage (with cluster) where this start called: Caliburn_34 (BD1), Paolo_37 (BD2), TMaxx_46 (FR),

Start 119:

- Found in 109 of 583 (18.7%) of genes in pham
- Manual Annotations of this start: 1 of 539
- Called 0.9% of time when present
- Phage (with cluster) where this start called: Sebastisaurus_45 (BB2),

Start 120:

- Found in 3 of 583 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 539
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Grayson_194 (CB), Peregrin_191 (CB),

Start 122:

- Found in 73 of 583 (12.5%) of genes in pham
- Manual Annotations of this start: 8 of 539
- Called 11.0% of time when present
- Phage (with cluster) where this start called: Anedea_230 (BE1), Bmoc_221 (BE1), Jay2Jay_222 (BE1), Leo04_217 (BE1), PinkiePie_217 (BE1), Targaryen_216 (BE1), Warpy_220 (BE1), Yaboi_233 (BE2),

Start 125:

- Found in 43 of 583 (7.4%) of genes in pham
- Manual Annotations of this start: 15 of 539
- Called 37.2% of time when present
- Phage (with cluster) where this start called: Angela_219 (BE1), Bartholomune_217 (BE1), Braelyn_213 (BE1), Cursive_219 (BE1), Larnav_216 (BE1), LilMartin_216 (BE1), Navo_211 (BE1), NootNoot_214 (BE1), Paradiddles_209 (BE1), Persimmon_220 (BE1), Samisti12_221 (BE1), Scheme_220 (BE1), Sushi23_217 (BE1), Tribute_213 (BE1), Watermoore_216 (BE1), WhereRU_216 (BE1),

Start 128:

- Found in 73 of 583 (12.5%) of genes in pham
- Manual Annotations of this start: 12 of 539
- Called 20.5% of time when present
- Phage (with cluster) where this start called: BlueOtter_215 (BE1), Cross_216 (BE1), EGole_220 (BE1), Evy_207 (BE1), HangryHippo_215 (BE1), Lululemon_213 (BE1), Marsus_229 (BE1), MulchMansion_220 (BE1), PacManQ_213 (BE1), Peebs_214 (BE1), Pepperwood_217 (BE1), Riptide_223 (BE1), Shuckle_218 (BE1), Squillium_220 (BE1), Teutsch_216 (BE1),

Start 135:

- Found in 1 of 583 (0.2%) of genes in pham

- Manual Annotations of this start: 1 of 539
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mildred21_226 (BE1),

Summary by clusters:

There are 31 clusters represented in this pham: singleton, DJ, DK, BL, BM, BN, BF, BT, BD1, DS, A10, FR, A19, BD4, A3, A2, A5, A4, BD3, A6, A8, CQ1, BB2, BB1, A7, CB, BD2, CQ2, A20, BE2, BE1,

Info for manual annotations of cluster A10:

- Start number 76 was manually annotated 1 time for cluster A10.
- Start number 78 was manually annotated 6 times for cluster A10.
- Start number 88 was manually annotated 6 times for cluster A10.
- Start number 93 was manually annotated 3 times for cluster A10.

Info for manual annotations of cluster A19:

- Start number 87 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 83 was manually annotated 15 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 94 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 68 was manually annotated 11 times for cluster A3.
- Start number 85 was manually annotated 96 times for cluster A3.
- Start number 88 was manually annotated 5 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 76 was manually annotated 3 times for cluster A4.
- Start number 94 was manually annotated 32 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 65 was manually annotated 1 time for cluster A5.
- Start number 74 was manually annotated 32 times for cluster A5.
- Start number 77 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 74 was manually annotated 23 times for cluster A6.
- Start number 76 was manually annotated 14 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 91 was manually annotated 1 time for cluster A7.
- Start number 94 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 91 was manually annotated 10 times for cluster A8.

Info for manual annotations of cluster BB1:

- Start number 83 was manually annotated 2 times for cluster BB1.
- Start number 92 was manually annotated 1 time for cluster BB1.

- Start number 94 was manually annotated 1 time for cluster BB1.
- Start number 109 was manually annotated 1 time for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 83 was manually annotated 1 time for cluster BB2.
- Start number 119 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BD1:

- Start number 73 was manually annotated 36 times for cluster BD1.
- Start number 79 was manually annotated 2 times for cluster BD1.
- Start number 81 was manually annotated 5 times for cluster BD1.
- Start number 83 was manually annotated 10 times for cluster BD1.
- Start number 117 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 79 was manually annotated 11 times for cluster BD2.
- Start number 83 was manually annotated 19 times for cluster BD2.
- Start number 112 was manually annotated 1 time for cluster BD2.
- Start number 117 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 83 was manually annotated 12 times for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 60 was manually annotated 2 times for cluster BD4.
- Start number 83 was manually annotated 1 time for cluster BD4.

Info for manual annotations of cluster BE1:

- Start number 110 was manually annotated 1 time for cluster BE1.
- Start number 122 was manually annotated 7 times for cluster BE1.
- Start number 125 was manually annotated 15 times for cluster BE1.
- Start number 128 was manually annotated 12 times for cluster BE1.
- Start number 135 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 104 was manually annotated 1 time for cluster BE2.
- Start number 109 was manually annotated 26 times for cluster BE2.
- Start number 112 was manually annotated 1 time for cluster BE2.
- Start number 113 was manually annotated 1 time for cluster BE2.
- Start number 122 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BF:

- Start number 93 was manually annotated 10 times for cluster BF.
- Start number 95 was manually annotated 1 time for cluster BF.
- Start number 96 was manually annotated 3 times for cluster BF.
- Start number 97 was manually annotated 1 time for cluster BF.
- Start number 105 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster BL:

- Start number 80 was manually annotated 1 time for cluster BL.

Info for manual annotations of cluster BM:

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

Info for manual annotations of cluster BN:

- Start number 80 was manually annotated 2 times for cluster BN.
- Start number 100 was manually annotated 2 times for cluster BN.
- Start number 109 was manually annotated 4 times for cluster BN.

Info for manual annotations of cluster BT:

- Start number 109 was manually annotated 1 time for cluster BT.

Info for manual annotations of cluster CB:

- Start number 115 was manually annotated 1 time for cluster CB.
- Start number 120 was manually annotated 2 times for cluster CB.

Info for manual annotations of cluster CQ1:

- Start number 85 was manually annotated 3 times for cluster CQ1.
- Start number 90 was manually annotated 4 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 85 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DJ:

- Start number 35 was manually annotated 1 time for cluster DJ.
- Start number 55 was manually annotated 10 times for cluster DJ.
- Start number 62 was manually annotated 16 times for cluster DJ.
- Start number 64 was manually annotated 2 times for cluster DJ.
- Start number 68 was manually annotated 10 times for cluster DJ.
- Start number 82 was manually annotated 4 times for cluster DJ.
- Start number 106 was manually annotated 1 time for cluster DJ.

Info for manual annotations of cluster DK:

- Start number 67 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 86 was manually annotated 3 times for cluster DS.
- Start number 106 was manually annotated 1 time for cluster DS.

Gene Information:

Gene: ACFishhook_40 Start: 28503, Stop: 28093, Start Num: 68

Candidate Starts for ACFishhook_40:

(13, 28701), (Start: 68 @28503 has 21 MA's), (Start: 85 @28476 has 100 MA's), (Start: 109 @28431 has 32 MA's), (152, 28260), (153, 28248),

Gene: AN3_37 Start: 28097, Stop: 27681, Start Num: 83

Candidate Starts for AN3_37:

(7, 28388), (9, 28376), (Start: 83 @28097 has 67 MA's), (153, 27866), (189, 27734), (200, 27713), (206, 27695),

Gene: AN9_40 Start: 28082, Stop: 27666, Start Num: 83

Candidate Starts for AN9_40:

(8, 28370), (Start: 83 @28082 has 67 MA's), (153, 27851), (189, 27719), (200, 27698), (206, 27680),

Gene: ANI8_40 Start: 28082, Stop: 27666, Start Num: 83

Candidate Starts for ANI8_40:

(8, 28370), (Start: 83 @28082 has 67 MA's), (153, 27851), (189, 27719), (200, 27698), (206, 27680),

Gene: Aaronocolus_34 Start: 25685, Stop: 26173, Start Num: 73

Candidate Starts for Aaronocolus_34:

(44, 25637), (Start: 73 @25685 has 36 MA's), (108, 25757), (Start: 117 @25802 has 2 MA's), (142, 25904), (174, 26021), (217, 26141), (231, 26168),

Gene: Abdiel_35 Start: 27799, Stop: 27323, Start Num: 94

Candidate Starts for Abdiel_35:

(Start: 94 @27799 has 37 MA's), (Start: 109 @27754 has 32 MA's), (145, 27616), (186, 27451), (190, 27439), (218, 27379), (222, 27367),

Gene: Aflac_63 Start: 46335, Stop: 46781, Start Num: 68

Candidate Starts for Aflac_63:

(Start: 35 @46263 has 1 MA's), (47, 46296), (Start: 62 @46326 has 16 MA's), (Start: 68 @46335 has 21 MA's), (Start: 119 @46467 has 1 MA's), (142, 46560), (168, 46668), (181, 46719),

Gene: AgentM_32 Start: 27051, Stop: 26542, Start Num: 74

Candidate Starts for AgentM_32:

(Start: 74 @27051 has 55 MA's),

Gene: Aglet_41 Start: 28577, Stop: 28194, Start Num: 85

Candidate Starts for Aglet_41:

(Start: 68 @28604 has 21 MA's), (Start: 85 @28577 has 100 MA's), (Start: 109 @28532 has 32 MA's), (152, 28361), (153, 28349),

Gene: AgronaGT15_40 Start: 28395, Stop: 28012, Start Num: 85

Candidate Starts for AgronaGT15_40:

(Start: 68 @28422 has 21 MA's), (Start: 85 @28395 has 100 MA's), (103, 28368), (Start: 109 @28350 has 32 MA's), (152, 28179), (153, 28167),

Gene: Airmid_33 Start: 26678, Stop: 26169, Start Num: 74

Candidate Starts for Airmid_33:

(Start: 74 @26678 has 55 MA's),

Gene: AlainaMarie_63 Start: 46290, Stop: 46832, Start Num: 68

Candidate Starts for AlainaMarie_63:

(37, 46224), (Start: 62 @46281 has 16 MA's), (Start: 68 @46290 has 21 MA's), (Start: 119 @46422 has 1 MA's), (137, 46488), (142, 46515), (154, 46578), (168, 46623), (194, 46716),

Gene: Alsaber_36 Start: 27554, Stop: 27958, Start Num: 83

Candidate Starts for Alsaber_36:

(Start: 83 @27554 has 67 MA's), (Start: 112 @27608 has 2 MA's), (Start: 117 @27641 has 2 MA's), (126, 27674), (189, 27935), (191, 27941),

Gene: Alvy_37 Start: 27037, Stop: 27510, Start Num: 83

Candidate Starts for Alvy_37:

(Start: 83 @27037 has 67 MA's), (Start: 109 @27082 has 32 MA's), (Start: 112 @27091 has 2 MA's), (116, 27115), (126, 27157), (142, 27226), (217, 27478), (223, 27493),

Gene: Amabiko_235 Start: 109135, Stop: 109503, Start Num: 109

Candidate Starts for Amabiko_235:

(Start: 109 @109135 has 32 MA's), (Start: 122 @109195 has 8 MA's), (Start: 128 @109219 has 12 MA's), (140, 109264), (143, 109285), (151, 109306), (154, 109339), (156, 109354), (202, 109489),

Gene: Amela_35 Start: 28386, Stop: 28790, Start Num: 83

Candidate Starts for Amela_35:

(47, 28323), (Start: 83 @28386 has 67 MA's), (Start: 109 @28431 has 32 MA's), (Start: 112 @28440 has 2 MA's), (116, 28464), (130, 28524), (174, 28707), (189, 28767), (191, 28773),

Gene: Amethyst_34 Start: 26390, Stop: 26875, Start Num: 79

Candidate Starts for Amethyst_34:

(Start: 79 @26390 has 13 MA's), (116, 26474), (Start: 119 @26489 has 1 MA's), (169, 26705), (217, 26843), (223, 26858),

Gene: Andris_34 Start: 26452, Stop: 26937, Start Num: 79

Candidate Starts for Andris_34:

(Start: 79 @26452 has 13 MA's), (Start: 109 @26503 has 32 MA's), (116, 26536), (Start: 119 @26551 has 1 MA's), (124, 26575), (132, 26608), (160, 26740), (212, 26896), (217, 26905), (223, 26920),

Gene: Anedea_230 Start: 109729, Stop: 110043, Start Num: 122

Candidate Starts for Anedea_230:

(Start: 122 @109729 has 8 MA's), (Start: 125 @109741 has 15 MA's), (Start: 128 @109753 has 12 MA's), (136, 109780), (143, 109819), (151, 109840), (154, 109873), (156, 109888), (196, 110011), (202, 110023),

Gene: Angela_219 Start: 107471, Stop: 107788, Start Num: 125

Candidate Starts for Angela_219:

(107, 107390), (Start: 122 @107459 has 8 MA's), (Start: 125 @107471 has 15 MA's), (Start: 128 @107483 has 12 MA's), (136, 107510), (143, 107549), (154, 107603), (156, 107618), (188, 107720), (209, 107771), (210, 107774),

Gene: Animus_34 Start: 26897, Stop: 27370, Start Num: 83

Candidate Starts for Animus_34:

(Start: 83 @26897 has 67 MA's), (Start: 109 @26942 has 32 MA's), (Start: 112 @26951 has 2 MA's), (116, 26975), (126, 27017), (157, 27167), (217, 27338), (223, 27353),

Gene: Anthony_36 Start: 26453, Stop: 25938, Start Num: 94

Candidate Starts for Anthony_36:

(Start: 94 @26453 has 37 MA's), (159, 26195), (189, 26093), (190, 26090), (196, 26075), (214, 26036), (228, 26009),

Gene: Anubis_43 Start: 28462, Stop: 28079, Start Num: 85

Candidate Starts for Anubis_43:

(Start: 68 @28489 has 21 MA's), (Start: 85 @28462 has 100 MA's), (Start: 109 @28417 has 32 MA's), (152, 28246), (153, 28234),

Gene: Aphelion_145 Start: 79977, Stop: 80369, Start Num: 85

Candidate Starts for Aphelion_145:

(Start: 85 @79977 has 100 MA's), (131, 80118), (182, 80310), (199, 80358),

Gene: Aragog_32 Start: 27081, Stop: 26572, Start Num: 74

Candidate Starts for Aragog_32:
(Start: 74 @27081 has 55 MA's),

Gene: Arataki_61 Start: 45961, Stop: 46422, Start Num: 62
Candidate Starts for Arataki_61:
(37, 45904), (Start: 62 @45961 has 16 MA's), (Start: 68 @45970 has 21 MA's), (Start: 119 @46102 has 1 MA's), (137, 46168), (142, 46195), (154, 46258), (168, 46303),

Gene: Archetta_32 Start: 27187, Stop: 26678, Start Num: 74
Candidate Starts for Archetta_32:
(Start: 74 @27187 has 55 MA's),

Gene: Artemis2UCLA_40 Start: 26288, Stop: 25899, Start Num: 76
Candidate Starts for Artemis2UCLA_40:
(Start: 76 @26288 has 18 MA's), (132, 26144), (147, 26099), (153, 26057), (158, 26030),

Gene: Artorias_65 Start: 46494, Stop: 47009, Start Num: 55
Candidate Starts for Artorias_65:
(Start: 55 @46494 has 10 MA's), (103, 46578), (Start: 106 @46584 has 2 MA's), (Start: 119 @46644 has 1 MA's), (124, 46665), (133, 46701), (142, 46737), (158, 46821), (190, 46929), (196, 46944), (213, 46977), (215, 46980), (224, 47001),

Gene: Arturo_34 Start: 27863, Stop: 27384, Start Num: 94
Candidate Starts for Arturo_34:
(Start: 94 @27863 has 37 MA's), (182, 27530), (189, 27503),

Gene: Asten_34 Start: 26046, Stop: 26534, Start Num: 73
Candidate Starts for Asten_34:
(16, 25866), (22, 25902), (44, 25998), (Start: 73 @26046 has 36 MA's), (108, 26118), (116, 26154), (129, 26211), (173, 26376), (174, 26382), (217, 26502), (231, 26529),

Gene: Astro_32 Start: 26313, Stop: 25705, Start Num: 91
Candidate Starts for Astro_32:
(Start: 91 @26313 has 11 MA's), (186, 25959), (212, 25896), (234, 25845), (235, 25839),

Gene: AugsMagnumOpus_43 Start: 28568, Stop: 28185, Start Num: 85
Candidate Starts for AugsMagnumOpus_43:
(Start: 68 @28595 has 21 MA's), (Start: 85 @28568 has 100 MA's), (Start: 109 @28523 has 32 MA's), (152, 28352), (153, 28340),

Gene: Avazak_66 Start: 46911, Stop: 47336, Start Num: 106
Candidate Starts for Avazak_66:
(Start: 55 @46821 has 10 MA's), (Start: 106 @46911 has 2 MA's), (Start: 119 @46971 has 1 MA's), (124, 46992), (133, 47028), (142, 47064), (158, 47148), (190, 47256), (213, 47304), (215, 47307), (224, 47328),

Gene: Axiom_37 Start: 26619, Stop: 27098, Start Num: 79
Candidate Starts for Axiom_37:
(58, 26583), (Start: 79 @26619 has 13 MA's), (108, 26670), (116, 26706), (Start: 117 @26715 has 2 MA's), (Start: 119 @26721 has 1 MA's), (123, 26739), (217, 27066), (223, 27081),

Gene: B1_34 Start: 27319, Stop: 26933, Start Num: 85
Candidate Starts for B1_34:

(Start: 85 @27319 has 100 MA's),

Gene: BABullseye_40 Start: 26694, Stop: 26302, Start Num: 74

Candidate Starts for BABullseye_40:

(Start: 74 @26694 has 55 MA's), (132, 26547), (147, 26502), (153, 26460), (158, 26433),

Gene: BabyRay_36 Start: 27870, Stop: 27484, Start Num: 85

Candidate Starts for BabyRay_36:

(Start: 85 @27870 has 100 MA's), (150, 27672),

Gene: BangNhom_36 Start: 28100, Stop: 27660, Start Num: 94

Candidate Starts for BangNhom_36:

(Start: 94 @28100 has 37 MA's), (189, 27740), (190, 27737),

Gene: BarryBee_37 Start: 26056, Stop: 26544, Start Num: 73

Candidate Starts for BarryBee_37:

(16, 25876), (22, 25912), (44, 26008), (Start: 73 @26056 has 36 MA's), (108, 26128), (116, 26164), (Start: 117 @26173 has 2 MA's), (129, 26221), (173, 26386), (174, 26392), (217, 26512), (231, 26539),

Gene: BartholomewSD_37 Start: 27037, Stop: 27510, Start Num: 83

Candidate Starts for BartholomewSD_37:

(Start: 83 @27037 has 67 MA's), (Start: 109 @27082 has 32 MA's), (Start: 112 @27091 has 2 MA's), (116, 27115), (126, 27157), (142, 27226), (217, 27478), (223, 27493),

Gene: Bartholomune_217 Start: 107720, Stop: 108022, Start Num: 125

Candidate Starts for Bartholomune_217:

(Start: 122 @107708 has 8 MA's), (Start: 125 @107720 has 15 MA's), (Start: 128 @107732 has 12 MA's), (143, 107798), (151, 107819), (156, 107867), (169, 107894), (174, 107912), (202, 108002),

Gene: Battuta_229 Start: 108450, Stop: 108818, Start Num: 109

Candidate Starts for Battuta_229:

(Start: 109 @108450 has 32 MA's), (Start: 122 @108510 has 8 MA's), (Start: 128 @108534 has 12 MA's), (143, 108600), (151, 108621), (154, 108654), (156, 108669), (202, 108804),

Gene: BeardedLady_35 Start: 25938, Stop: 26426, Start Num: 73

Candidate Starts for BeardedLady_35:

(Start: 73 @25938 has 36 MA's), (108, 26010), (Start: 117 @26055 has 2 MA's), (142, 26157), (174, 26274), (217, 26394), (231, 26421),

Gene: Beauxregard13_41 Start: 28603, Stop: 28193, Start Num: 68

Candidate Starts for Beauxregard13_41:

(Start: 68 @28603 has 21 MA's), (Start: 85 @28576 has 100 MA's), (Start: 109 @28531 has 32 MA's), (152, 28360), (153, 28348),

Gene: BellusTerra_36 Start: 27799, Stop: 27323, Start Num: 94

Candidate Starts for BellusTerra_36:

(Start: 94 @27799 has 37 MA's), (Start: 109 @27754 has 32 MA's), (145, 27616), (186, 27451), (190, 27439), (218, 27379), (222, 27367),

Gene: Benedict_33 Start: 26684, Stop: 26172, Start Num: 74

Candidate Starts for Benedict_33:

(Start: 74 @26684 has 55 MA's),

Gene: BetterYeti_66 Start: 46390, Stop: 46860, Start Num: 62

Candidate Starts for BetterYeti_66:

(Start: 62 @46390 has 16 MA's), (Start: 68 @46399 has 21 MA's), (Start: 119 @46528 has 1 MA's), (142, 46621), (168, 46729), (194, 46822),

Gene: Bimmel_13 Start: 9189, Stop: 8830, Start Num: 114

Candidate Starts for Bimmel_13:

(50, 9318), (54, 9306), (Start: 109 @9210 has 32 MA's), (Start: 112 @9201 has 2 MA's), (114, 9189), (116, 9177), (124, 9141), (Start: 125 @9138 has 15 MA's), (147, 9054), (153, 9024), (174, 8952), (189, 8892), (190, 8889), (215, 8841),

Gene: Birchlyn_230 Start: 106383, Stop: 106751, Start Num: 109

Candidate Starts for Birchlyn_230:

(Start: 109 @106383 has 32 MA's), (Start: 122 @106443 has 8 MA's), (Start: 128 @106467 has 12 MA's), (140, 106512), (143, 106533), (151, 106554), (154, 106587), (156, 106602), (202, 106737),

Gene: Blinn1_41 Start: 26683, Stop: 26291, Start Num: 74

Candidate Starts for Blinn1_41:

(Start: 74 @26683 has 55 MA's), (132, 26536), (147, 26491), (153, 26449), (158, 26422),

Gene: Blue7_41 Start: 26619, Stop: 26230, Start Num: 74

Candidate Starts for Blue7_41:

(Start: 74 @26619 has 55 MA's), (153, 26388), (158, 26361), (189, 26256),

Gene: BlueBird_37 Start: 27799, Stop: 27413, Start Num: 85

Candidate Starts for BlueBird_37:

(Start: 85 @27799 has 100 MA's), (150, 27601),

Gene: BlueNGold_172 Start: 101916, Stop: 101413, Start Num: 86

Candidate Starts for BlueNGold_172:

(Start: 86 @101916 has 3 MA's), (159, 101640), (168, 101619), (174, 101598), (216, 101478), (231, 101448),

Gene: BlueOtter_215 Start: 107854, Stop: 108144, Start Num: 128

Candidate Starts for BlueOtter_215:

(Start: 122 @107830 has 8 MA's), (Start: 125 @107842 has 15 MA's), (Start: 128 @107854 has 12 MA's), (143, 107920), (154, 107974), (156, 107989), (202, 108124),

Gene: Bluefalcon_31 Start: 27140, Stop: 26631, Start Num: 74

Candidate Starts for Bluefalcon_31:

(Start: 74 @27140 has 55 MA's),

Gene: Bmoc_221 Start: 107925, Stop: 108239, Start Num: 122

Candidate Starts for Bmoc_221:

(Start: 122 @107925 has 8 MA's), (Start: 125 @107937 has 15 MA's), (Start: 128 @107949 has 12 MA's), (136, 107976), (139, 107991), (143, 108015), (151, 108036), (154, 108069), (156, 108084), (196, 108207), (202, 108219),

Gene: Bonamassa_32 Start: 26981, Stop: 26472, Start Num: 74

Candidate Starts for Bonamassa_32:

(Start: 74 @26981 has 55 MA's),

Gene: BoomerJR_228 Start: 109040, Stop: 109408, Start Num: 109

Candidate Starts for BoomerJR_228:

(98, 109007), (Start: 104 @109025 has 1 MA's), (Start: 109 @109040 has 32 MA's), (Start: 122 @109100 has 8 MA's), (Start: 128 @109124 has 12 MA's), (134, 109145), (143, 109190), (154, 109244), (156, 109259),

Gene: Boopy_175 Start: 101927, Stop: 101424, Start Num: 86

Candidate Starts for Boopy_175:

(Start: 86 @101927 has 3 MA's), (159, 101651), (168, 101630), (174, 101609), (216, 101489), (231, 101459),

Gene: Bordeaux_229 Start: 109033, Stop: 109401, Start Num: 109

Candidate Starts for Bordeaux_229:

(Start: 109 @109033 has 32 MA's), (Start: 122 @109093 has 8 MA's), (Start: 128 @109117 has 12 MA's), (143, 109183), (151, 109204), (154, 109237), (156, 109252), (202, 109387),

Gene: Bovely_34 Start: 25691, Stop: 26179, Start Num: 73

Candidate Starts for Bovely_34:

(44, 25643), (Start: 73 @25691 has 36 MA's), (108, 25763), (Start: 117 @25808 has 2 MA's), (142, 25910), (174, 26027), (217, 26147), (231, 26174),

Gene: Bowden_35 Start: 26947, Stop: 27420, Start Num: 83

Candidate Starts for Bowden_35:

(Start: 83 @26947 has 67 MA's), (Start: 109 @26992 has 32 MA's), (Start: 112 @27001 has 2 MA's), (116, 27025), (126, 27067), (142, 27136), (217, 27388), (223, 27403),

Gene: Braelyn_213 Start: 107367, Stop: 107669, Start Num: 125

Candidate Starts for Braelyn_213:

(Start: 122 @107355 has 8 MA's), (Start: 125 @107367 has 15 MA's), (Start: 128 @107379 has 12 MA's), (143, 107445), (151, 107466), (156, 107514), (169, 107541), (174, 107559), (202, 107649),

Gene: Brataylor_37 Start: 27039, Stop: 27515, Start Num: 83

Candidate Starts for Brataylor_37:

(44, 26973), (Start: 79 @27033 has 13 MA's), (Start: 83 @27039 has 67 MA's), (116, 27117), (Start: 119 @27132 has 1 MA's), (162, 27327), (190, 27426), (217, 27483), (223, 27498), (231, 27510),

Gene: BreSam8_41 Start: 28569, Stop: 28186, Start Num: 85

Candidate Starts for BreSam8_41:

(Start: 68 @28596 has 21 MA's), (Start: 85 @28569 has 100 MA's), (Start: 109 @28524 has 32 MA's), (152, 28353), (153, 28341),

Gene: BroPlease_35 Start: 26228, Stop: 26704, Start Num: 83

Candidate Starts for BroPlease_35:

(Start: 83 @26228 has 67 MA's), (Start: 109 @26273 has 32 MA's), (116, 26306), (Start: 117 @26315 has 2 MA's), (123, 26339), (173, 26543), (217, 26672),

Gene: BryanRecycles_35 Start: 26042, Stop: 26530, Start Num: 73

Candidate Starts for BryanRecycles_35:

(27, 25937), (44, 25994), (Start: 73 @26042 has 36 MA's), (108, 26114), (Start: 117 @26159 has 2 MA's), (142, 26261), (174, 26378), (217, 26498), (231, 26525),

Gene: Bugatti_36 Start: 27799, Stop: 27413, Start Num: 85

Candidate Starts for Bugatti_36:

(Start: 85 @27799 has 100 MA's), (150, 27601),

Gene: Burley_64 Start: 46068, Stop: 46514, Start Num: 68

Candidate Starts for Burley_64:

(37, 46002), (50, 46038), (Start: 62 @46059 has 16 MA's), (Start: 68 @46068 has 21 MA's), (Start: 119 @46197 has 1 MA's), (142, 46290), (168, 46398), (181, 46449),

Gene: BuzzBuzz_39 Start: 28574, Stop: 28191, Start Num: 85

Candidate Starts for BuzzBuzz_39:

(Start: 68 @28601 has 21 MA's), (Start: 85 @28574 has 100 MA's), (103, 28547), (Start: 109 @28529 has 32 MA's), (152, 28358), (153, 28346),

Gene: Bxz2_38 Start: 28581, Stop: 28198, Start Num: 85

Candidate Starts for Bxz2_38:

(Start: 68 @28608 has 21 MA's), (Start: 85 @28581 has 100 MA's), (103, 28554), (Start: 109 @28536 has 32 MA's), (152, 28365), (153, 28353),

Gene: C3_35 Start: 28082, Stop: 27666, Start Num: 83

Candidate Starts for C3_35:

(8, 28370), (Start: 83 @28082 has 67 MA's), (153, 27851), (189, 27719), (200, 27698), (206, 27680),

Gene: Caelum_36 Start: 26653, Stop: 27126, Start Num: 83

Candidate Starts for Caelum_36:

(Start: 83 @26653 has 67 MA's), (Start: 109 @26698 has 32 MA's), (Start: 112 @26707 has 2 MA's), (116, 26731), (Start: 117 @26740 has 2 MA's), (126, 26773), (157, 26923), (173, 26968), (217, 27094), (219, 27103), (223, 27109),

Gene: Caliburn_34 Start: 25785, Stop: 26156, Start Num: 117

Candidate Starts for Caliburn_34:

(44, 25620), (Start: 73 @25668 has 36 MA's), (108, 25740), (Start: 117 @25785 has 2 MA's), (142, 25887), (174, 26004), (217, 26124), (231, 26151),

Gene: Captrips_64 Start: 45969, Stop: 46484, Start Num: 55

Candidate Starts for Captrips_64:

(Start: 55 @45969 has 10 MA's), (103, 46053), (Start: 106 @46059 has 2 MA's), (Start: 119 @46119 has 1 MA's), (124, 46140), (133, 46176), (142, 46212), (158, 46296), (190, 46404), (213, 46452), (215, 46455), (224, 46476),

Gene: Capybara_65 Start: 46300, Stop: 46815, Start Num: 55

Candidate Starts for Capybara_65:

(Start: 55 @46300 has 10 MA's), (103, 46384), (Start: 106 @46390 has 2 MA's), (Start: 119 @46450 has 1 MA's), (124, 46471), (133, 46507), (142, 46543), (158, 46627), (190, 46735), (196, 46750), (213, 46783), (215, 46786), (224, 46807),

Gene: Caviar_35 Start: 27809, Stop: 27381, Start Num: 88

Candidate Starts for Caviar_35:

(Start: 85 @27812 has 100 MA's), (Start: 88 @27809 has 11 MA's), (Start: 109 @27764 has 32 MA's), (145, 27626), (190, 27449),

Gene: CeilingFan_235 Start: 109828, Stop: 110196, Start Num: 109

Candidate Starts for CeilingFan_235:

(Start: 109 @109828 has 32 MA's), (Start: 122 @109888 has 8 MA's), (Start: 128 @109912 has 12 MA's), (143, 109978), (151, 109999), (154, 110032), (156, 110047), (202, 110182),

Gene: Celery_38 Start: 27479, Stop: 27883, Start Num: 83
Candidate Starts for Celery_38:
(Start: 83 @27479 has 67 MA's), (Start: 109 @27524 has 32 MA's), (Start: 112 @27533 has 2 MA's),
(116, 27557), (Start: 117 @27566 has 2 MA's), (126, 27599), (174, 27800), (189, 27860), (191, 27866),

Gene: Celeste_35 Start: 26508, Stop: 26984, Start Num: 83
Candidate Starts for Celeste_35:
(44, 26442), (Start: 79 @26502 has 13 MA's), (Start: 83 @26508 has 67 MA's), (116, 26586), (Start:
119 @26601 has 1 MA's), (162, 26796), (190, 26895), (217, 26952),

Gene: Cerulean_37 Start: 28101, Stop: 27661, Start Num: 94
Candidate Starts for Cerulean_37:
(Start: 94 @28101 has 37 MA's), (189, 27741), (190, 27738),

Gene: Chadwick_34 Start: 26587, Stop: 26075, Start Num: 74
Candidate Starts for Chadwick_34:
(Start: 74 @26587 has 55 MA's),

Gene: ChampagnePapi_37 Start: 28100, Stop: 27660, Start Num: 94
Candidate Starts for ChampagnePapi_37:
(Start: 94 @28100 has 37 MA's), (189, 27740), (190, 27737),

Gene: Chikenjars_62 Start: 46297, Stop: 46848, Start Num: 62
Candidate Starts for Chikenjars_62:
(37, 46240), (Start: 62 @46297 has 16 MA's), (Start: 68 @46306 has 21 MA's), (Start: 119 @46438
has 1 MA's), (137, 46504), (142, 46531), (154, 46594), (168, 46639), (181, 46690), (194, 46732),

Gene: Chucky_34 Start: 26060, Stop: 26548, Start Num: 73
Candidate Starts for Chucky_34:
(16, 25880), (22, 25916), (44, 26012), (Start: 73 @26060 has 36 MA's), (108, 26132), (116, 26168),
(Start: 117 @26177 has 2 MA's), (129, 26225), (173, 26390), (174, 26396), (217, 26516), (231, 26543),

Gene: Chupacabra_35 Start: 27785, Stop: 27258, Start Num: 93
Candidate Starts for Chupacabra_35:
(Start: 93 @27785 has 13 MA's), (184, 27440), (189, 27425),

Gene: Citrus_64 Start: 46571, Stop: 47122, Start Num: 62
Candidate Starts for Citrus_64:
(37, 46514), (Start: 62 @46571 has 16 MA's), (Start: 68 @46580 has 21 MA's), (Start: 119 @46712
has 1 MA's), (137, 46778), (142, 46805), (154, 46868), (168, 46913), (194, 47006),

Gene: CloudWang3_40 Start: 26388, Stop: 25999, Start Num: 76
Candidate Starts for CloudWang3_40:
(Start: 76 @26388 has 18 MA's), (132, 26244), (147, 26199), (153, 26157), (158, 26130),

Gene: Commander_36 Start: 27803, Stop: 27324, Start Num: 94
Candidate Starts for Commander_36:
(Start: 94 @27803 has 37 MA's), (186, 27452), (190, 27440), (218, 27380), (222, 27368),

Gene: Conan_36 Start: 27448, Stop: 27852, Start Num: 83
Candidate Starts for Conan_36:
(16, 27253), (22, 27289), (47, 27388), (Start: 83 @27448 has 67 MA's), (Start: 112 @27502 has 2
MA's), (Start: 117 @27535 has 2 MA's), (126, 27568), (189, 27829), (191, 27835),

Gene: Conley_64 Start: 47055, Stop: 47570, Start Num: 55

Candidate Starts for Conley_64:

(14, 46869), (15, 46872), (17, 46899), (23, 46938), (28, 46974), (29, 46977), (32, 46989), (38, 47007), (Start: 55 @47055 has 10 MA's), (59, 47064), (Start: 106 @47145 has 2 MA's), (Start: 117 @47199 has 2 MA's), (118, 47202), (Start: 119 @47205 has 1 MA's), (124, 47226), (133, 47262), (158, 47382), (174, 47427), (213, 47538), (215, 47541), (224, 47562),

Gene: Conspiracy_32 Start: 26881, Stop: 26372, Start Num: 74

Candidate Starts for Conspiracy_32:

(Start: 74 @26881 has 55 MA's),

Gene: Coog_32 Start: 27021, Stop: 26512, Start Num: 74

Candidate Starts for Coog_32:

(Start: 74 @27021 has 55 MA's),

Gene: Cookiedough_40 Start: 26610, Stop: 26218, Start Num: 74

Candidate Starts for Cookiedough_40:

(Start: 74 @26610 has 55 MA's), (132, 26463), (147, 26418), (153, 26376), (158, 26349),

Gene: Crocheter_64 Start: 46484, Stop: 46954, Start Num: 62

Candidate Starts for Crocheter_64:

(Start: 62 @46484 has 16 MA's), (Start: 68 @46493 has 21 MA's), (Start: 119 @46622 has 1 MA's), (142, 46715), (168, 46823), (194, 46916),

Gene: Cross_216 Start: 108499, Stop: 108789, Start Num: 128

Candidate Starts for Cross_216:

(Start: 122 @108475 has 8 MA's), (Start: 125 @108487 has 15 MA's), (Start: 128 @108499 has 12 MA's), (143, 108565), (154, 108619), (156, 108634), (202, 108769),

Gene: Cuco_32 Start: 26980, Stop: 26471, Start Num: 74

Candidate Starts for Cuco_32:

(Start: 74 @26980 has 55 MA's),

Gene: Cucurbita_145 Start: 80440, Stop: 80829, Start Num: 90

Candidate Starts for Cucurbita_145:

(Start: 90 @80440 has 4 MA's), (131, 80578), (190, 80800), (199, 80818),

Gene: Cullens_41 Start: 28575, Stop: 28192, Start Num: 85

Candidate Starts for Cullens_41:

(Start: 68 @28602 has 21 MA's), (Start: 85 @28575 has 100 MA's), (Start: 109 @28530 has 32 MA's), (152, 28359), (153, 28347),

Gene: Culver_146 Start: 78704, Stop: 79093, Start Num: 90

Candidate Starts for Culver_146:

(Start: 90 @78704 has 4 MA's), (131, 78842), (190, 79064), (199, 79082),

Gene: Cursive_219 Start: 108171, Stop: 108473, Start Num: 125

Candidate Starts for Cursive_219:

(Start: 122 @108159 has 8 MA's), (Start: 125 @108171 has 15 MA's), (Start: 128 @108183 has 12 MA's), (143, 108249), (154, 108303), (156, 108318), (202, 108453),

Gene: D29_36.1 Start: 27983, Stop: 27597, Start Num: 83

Candidate Starts for D29_36.1:
(Start: 83 @27983 has 67 MA's), (153, 27752),

Gene: D32_40 Start: 27983, Stop: 27597, Start Num: 83
Candidate Starts for D32_40:
(Start: 83 @27983 has 67 MA's), (153, 27752),

Gene: DBQu4n_40 Start: 27983, Stop: 27597, Start Num: 83
Candidate Starts for DBQu4n_40:
(Start: 83 @27983 has 67 MA's), (153, 27752),

Gene: DaHudson_41 Start: 28568, Stop: 28185, Start Num: 85
Candidate Starts for DaHudson_41:
(Start: 68 @28595 has 21 MA's), (Start: 85 @28568 has 100 MA's), (Start: 109 @28523 has 32 MA's),
(152, 28352), (153, 28340),

Gene: Daishi_39 Start: 27415, Stop: 27032, Start Num: 85
Candidate Starts for Daishi_39:
(Start: 68 @27442 has 21 MA's), (Start: 85 @27415 has 100 MA's), (103, 27388), (Start: 109 @27370
has 32 MA's), (152, 27199), (153, 27187),

Gene: Dancer_67 Start: 46319, Stop: 46744, Start Num: 106
Candidate Starts for Dancer_67:
(Start: 55 @46229 has 10 MA's), (103, 46313), (Start: 106 @46319 has 2 MA's), (Start: 119 @46379
has 1 MA's), (124, 46400), (133, 46436), (142, 46472), (158, 46556), (190, 46664), (196, 46679), (213,
46712), (215, 46715), (224, 46736),

Gene: Danforth_31 Start: 26198, Stop: 25686, Start Num: 91
Candidate Starts for Danforth_31:
(Start: 91 @26198 has 11 MA's), (153, 25967), (196, 25817), (212, 25781),

Gene: Danzina_36 Start: 26809, Stop: 27285, Start Num: 83
Candidate Starts for Danzina_36:
(44, 26743), (Start: 79 @26803 has 13 MA's), (Start: 83 @26809 has 67 MA's), (116, 26887), (Start:
119 @26902 has 1 MA's), (162, 27097), (190, 27196), (217, 27253), (223, 27268), (231, 27280),

Gene: Dattran_36 Start: 26615, Stop: 27091, Start Num: 83
Candidate Starts for Dattran_36:
(44, 26549), (Start: 79 @26609 has 13 MA's), (Start: 83 @26615 has 67 MA's), (116, 26693), (Start:
119 @26708 has 1 MA's), (162, 26903), (190, 27002), (217, 27059),

Gene: Daubenski_210 Start: 108498, Stop: 108872, Start Num: 110
Candidate Starts for Daubenski_210:
(59, 108396), (Start: 100 @108471 has 2 MA's), (Start: 109 @108495 has 32 MA's), (Start: 110
@108498 has 1 MA's), (121, 108552), (Start: 122 @108558 has 8 MA's), (Start: 128 @108582 has 12
MA's), (136, 108609), (143, 108648), (156, 108717), (177, 108783), (192, 108831), (202, 108852),

Gene: Daudau_35 Start: 26779, Stop: 27237, Start Num: 83
Candidate Starts for Daudau_35:
(56, 26740), (Start: 83 @26779 has 67 MA's), (Start: 109 @26824 has 32 MA's), (116, 26857), (Start:
117 @26866 has 2 MA's), (118, 26869), (173, 27079), (174, 27085), (182, 27118), (217, 27205), (223,
27220),

Gene: Demure_62 Start: 45961, Stop: 46422, Start Num: 62
Candidate Starts for Demure_62:
(37, 45904), (Start: 62 @45961 has 16 MA's), (Start: 68 @45970 has 21 MA's), (Start: 119 @46102 has 1 MA's), (137, 46168), (142, 46195), (154, 46258), (168, 46303),

Gene: Dennebes_58 Start: 29550, Stop: 29158, Start Num: 105
Candidate Starts for Dennebes_58:
(Start: 93 @29577 has 13 MA's), (Start: 105 @29550 has 1 MA's), (116, 29505), (166, 29295),

Gene: Destructrice_53 Start: 29334, Stop: 28939, Start Num: 102
Candidate Starts for Destructrice_53:
(Start: 97 @29352 has 1 MA's), (102, 29334), (Start: 119 @29268 has 1 MA's), (186, 29007),

Gene: Dexers_34 Start: 27476, Stop: 27880, Start Num: 83
Candidate Starts for Dexers_34:
(Start: 83 @27476 has 67 MA's), (Start: 112 @27530 has 2 MA's), (Start: 117 @27563 has 2 MA's), (126, 27596), (189, 27857), (191, 27863),

Gene: Diane_34 Start: 26663, Stop: 27148, Start Num: 79
Candidate Starts for Diane_34:
(Start: 79 @26663 has 13 MA's), (116, 26747), (Start: 119 @26762 has 1 MA's), (169, 26978), (217, 27116), (223, 27131),

Gene: Dieselweasel_41 Start: 28578, Stop: 28195, Start Num: 85
Candidate Starts for Dieselweasel_41:
(Start: 68 @28605 has 21 MA's), (Start: 85 @28578 has 100 MA's), (Start: 109 @28533 has 32 MA's), (152, 28362), (153, 28350),

Gene: Discoknowium_32 Start: 27090, Stop: 26581, Start Num: 74
Candidate Starts for Discoknowium_32:
(Start: 74 @27090 has 55 MA's),

Gene: Dixon_32 Start: 26307, Stop: 25699, Start Num: 91
Candidate Starts for Dixon_32:
(Start: 91 @26307 has 11 MA's), (186, 25953), (212, 25890), (234, 25839), (235, 25833),

Gene: DontArgue_35 Start: 26801, Stop: 26325, Start Num: 76
Candidate Starts for DontArgue_35:
(21, 26966), (Start: 76 @26801 has 18 MA's), (Start: 109 @26756 has 32 MA's), (116, 26723), (Start: 117 @26714 has 2 MA's), (118, 26711), (168, 26525), (184, 26459), (189, 26444), (197, 26426),

Gene: Dorothea_40 Start: 26617, Stop: 26225, Start Num: 74
Candidate Starts for Dorothea_40:
(Start: 74 @26617 has 55 MA's), (132, 26470), (147, 26425), (153, 26383), (158, 26356),

Gene: Drake94_34 Start: 26656, Stop: 26072, Start Num: 88
Candidate Starts for Drake94_34:
(20, 26851), (Start: 88 @26656 has 11 MA's), (189, 26296), (197, 26278),

Gene: DroogsArmy_36 Start: 29992, Stop: 29501, Start Num: 94
Candidate Starts for DroogsArmy_36:
(Start: 94 @29992 has 37 MA's), (141, 29818), (189, 29632), (190, 29629), (228, 29551), (230, 29548),

Gene: Dryad_75 Start: 51427, Stop: 51068, Start Num: 109
Candidate Starts for Dryad_75:
(Start: 80 @51487 has 3 MA's), (Start: 109 @51427 has 32 MA's), (116, 51394), (170, 51175),

Gene: Dublin_31 Start: 26952, Stop: 26440, Start Num: 74
Candidate Starts for Dublin_31:
(Start: 74 @26952 has 55 MA's), (189, 26583),

Gene: Duffington_62 Start: 46002, Stop: 46544, Start Num: 68
Candidate Starts for Duffington_62:
(37, 45936), (Start: 62 @45993 has 16 MA's), (Start: 68 @46002 has 21 MA's), (Start: 119 @46134 has 1 MA's), (137, 46200), (142, 46227), (168, 46335),

Gene: Duplo_40 Start: 28021, Stop: 27635, Start Num: 83
Candidate Starts for Duplo_40:
(Start: 83 @28021 has 67 MA's), (153, 27790),

Gene: DustyMartin_39 Start: 27581, Stop: 27105, Start Num: 76
Candidate Starts for DustyMartin_39:
(Start: 55 @27617 has 10 MA's), (Start: 76 @27581 has 18 MA's), (Start: 109 @27536 has 32 MA's), (116, 27503), (Start: 117 @27494 has 2 MA's), (118, 27491), (184, 27239), (189, 27224), (197, 27206),

Gene: Dwayne_34 Start: 26047, Stop: 26535, Start Num: 73
Candidate Starts for Dwayne_34:
(16, 25867), (22, 25903), (44, 25999), (Start: 73 @26047 has 36 MA's), (108, 26119), (116, 26155), (Start: 117 @26164 has 2 MA's), (129, 26212), (173, 26377), (174, 26383), (217, 26503), (231, 26530),

Gene: EGole_220 Start: 110229, Stop: 110519, Start Num: 128
Candidate Starts for EGole_220:
(Start: 122 @110205 has 8 MA's), (Start: 125 @110217 has 15 MA's), (Start: 128 @110229 has 12 MA's), (143, 110295), (154, 110349), (156, 110364), (202, 110499),

Gene: ELB20_33 Start: 27045, Stop: 27530, Start Num: 79
Candidate Starts for ELB20_33:
(Start: 79 @27045 has 13 MA's), (116, 27129), (Start: 119 @27144 has 1 MA's), (132, 27201), (160, 27333), (173, 27372), (217, 27498), (223, 27513),

Gene: Eagle_35 Start: 27823, Stop: 27347, Start Num: 94
Candidate Starts for Eagle_35:
(Start: 94 @27823 has 37 MA's), (Start: 109 @27778 has 32 MA's), (145, 27640), (186, 27475), (190, 27463), (218, 27403), (222, 27391),

Gene: Eddasa_35 Start: 26042, Stop: 26530, Start Num: 73
Candidate Starts for Eddasa_35:
(27, 25937), (44, 25994), (Start: 73 @26042 has 36 MA's), (108, 26114), (Start: 117 @26159 has 2 MA's), (142, 26261), (174, 26378), (217, 26498), (231, 26525),

Gene: Eddiemania_66 Start: 47192, Stop: 47701, Start Num: 62
Candidate Starts for Eddiemania_66:
(34, 47129), (37, 47135), (Start: 62 @47192 has 16 MA's), (Start: 68 @47201 has 21 MA's), (Start: 119 @47333 has 1 MA's), (137, 47399), (142, 47426), (154, 47489), (168, 47534), (181, 47585), (194, 47627), (199, 47636), (223, 47687), (228, 47693),

Gene: Edison31_36 Start: 28017, Stop: 27478, Start Num: 78

Candidate Starts for Edison31_36:

(Start: 78 @28017 has 6 MA's), (184, 27660), (189, 27645),

Gene: EhyElimayoE_215 Start: 129333, Stop: 129842, Start Num: 83

Candidate Starts for EhyElimayoE_215:

(21, 129150), (Start: 83 @129333 has 67 MA's), (138, 129507), (171, 129624), (207, 129741), (236, 129807), (237, 129837),

Gene: Ejemplo_33 Start: 25988, Stop: 26476, Start Num: 73

Candidate Starts for Ejemplo_33:

(19, 25820), (43, 25937), (Start: 73 @25988 has 36 MA's), (108, 26060), (116, 26096), (Start: 117 @26105 has 2 MA's), (129, 26153), (173, 26318), (174, 26324), (217, 26444), (231, 26471),

Gene: ElGato_36 Start: 27112, Stop: 27516, Start Num: 83

Candidate Starts for ElGato_36:

(16, 26917), (47, 27052), (Start: 83 @27112 has 67 MA's), (Start: 112 @27166 has 2 MA's), (Start: 117 @27199 has 2 MA's), (126, 27232), (189, 27493), (191, 27499),

Gene: ElTiger69_33 Start: 26682, Stop: 26170, Start Num: 74

Candidate Starts for ElTiger69_33:

(Start: 74 @26682 has 55 MA's),

Gene: Elmer_239 Start: 112604, Stop: 112984, Start Num: 104

Candidate Starts for Elmer_239:

(63, 112526), (69, 112535), (72, 112541), (Start: 79 @112556 has 13 MA's), (Start: 83 @112562 has 67 MA's), (101, 112598), (Start: 104 @112604 has 1 MA's), (Start: 122 @112676 has 8 MA's), (Start: 128 @112700 has 12 MA's), (134, 112721), (143, 112766), (154, 112820), (156, 112835), (201, 112967),

Gene: Emaanora_37 Start: 26005, Stop: 26493, Start Num: 73

Candidate Starts for Emaanora_37:

(16, 25825), (22, 25861), (44, 25957), (Start: 73 @26005 has 36 MA's), (108, 26077), (116, 26113), (Start: 117 @26122 has 2 MA's), (129, 26170), (173, 26335), (174, 26341), (217, 26461), (231, 26488),

Gene: EndAve_65 Start: 46474, Stop: 47016, Start Num: 68

Candidate Starts for EndAve_65:

(37, 46408), (Start: 62 @46465 has 16 MA's), (Start: 68 @46474 has 21 MA's), (Start: 119 @46606 has 1 MA's), (137, 46672), (142, 46699), (154, 46762), (168, 46807), (181, 46858), (194, 46900),

Gene: EnochSoames_37 Start: 26037, Stop: 26525, Start Num: 73

Candidate Starts for EnochSoames_37:

(27, 25932), (44, 25989), (Start: 73 @26037 has 36 MA's), (108, 26109), (Start: 117 @26154 has 2 MA's), (142, 26256), (174, 26373), (217, 26493), (231, 26520),

Gene: Enygma_238 Start: 111845, Stop: 112213, Start Num: 109

Candidate Starts for Enygma_238:

(42, 111707), (61, 111749), (63, 111752), (Start: 81 @111785 has 5 MA's), (98, 111812), (Start: 104 @111830 has 1 MA's), (Start: 109 @111845 has 32 MA's), (Start: 122 @111905 has 8 MA's), (123, 111911), (Start: 128 @111929 has 12 MA's), (143, 111995), (154, 112049), (156, 112064), (202, 112199),

Gene: EpicPhail_41 Start: 28576, Stop: 28193, Start Num: 85

Candidate Starts for EpicPhail_41:

(Start: 68 @28603 has 21 MA's), (Start: 85 @28576 has 100 MA's), (Start: 109 @28531 has 32 MA's), (152, 28360), (153, 28348),

Gene: Esperer_34 Start: 25504, Stop: 25992, Start Num: 73

Candidate Starts for Esperer_34:

(44, 25456), (Start: 73 @25504 has 36 MA's), (108, 25576), (Start: 117 @25621 has 2 MA's), (142, 25723), (174, 25840), (217, 25960), (231, 25987),

Gene: Eurydice_36 Start: 27798, Stop: 27322, Start Num: 94

Candidate Starts for Eurydice_36:

(Start: 94 @27798 has 37 MA's), (Start: 109 @27753 has 32 MA's), (145, 27615), (186, 27450), (190, 27438), (218, 27378), (222, 27366),

Gene: Evy_207 Start: 108670, Stop: 108960, Start Num: 128

Candidate Starts for Evy_207:

(Start: 122 @108646 has 8 MA's), (Start: 125 @108658 has 15 MA's), (Start: 128 @108670 has 12 MA's), (143, 108736), (154, 108790), (156, 108805), (202, 108940),

Gene: Expelliarmus_31 Start: 26184, Stop: 25672, Start Num: 91

Candidate Starts for Expelliarmus_31:

(Start: 91 @26184 has 11 MA's), (153, 25953), (196, 25803), (212, 25767),

Gene: Fabian_51 Start: 29095, Stop: 28676, Start Num: 93

Candidate Starts for Fabian_51:

(Start: 93 @29095 has 13 MA's), (Start: 105 @29068 has 1 MA's), (116, 29023), (166, 28813),

Gene: Farber_41 Start: 28569, Stop: 28186, Start Num: 85

Candidate Starts for Farber_41:

(Start: 68 @28596 has 21 MA's), (Start: 85 @28569 has 100 MA's), (Start: 109 @28524 has 32 MA's), (152, 28353), (153, 28341),

Gene: Fazel_65 Start: 46305, Stop: 46814, Start Num: 62

Candidate Starts for Fazel_65:

(Start: 62 @46305 has 16 MA's), (Start: 68 @46314 has 21 MA's), (Start: 119 @46443 has 1 MA's), (152, 46581), (189, 46725),

Gene: Fernando_41 Start: 28575, Stop: 28192, Start Num: 85

Candidate Starts for Fernando_41:

(Start: 68 @28602 has 21 MA's), (Start: 85 @28575 has 100 MA's), (Start: 109 @28530 has 32 MA's), (152, 28359), (153, 28347),

Gene: Figliar_62 Start: 46394, Stop: 46849, Start Num: 62

Candidate Starts for Figliar_62:

(Start: 35 @46331 has 1 MA's), (47, 46364), (Start: 62 @46394 has 16 MA's), (Start: 68 @46403 has 21 MA's), (Start: 119 @46535 has 1 MA's), (137, 46601), (142, 46628), (168, 46736), (181, 46787),

Gene: ForGetIt_32 Start: 26906, Stop: 26397, Start Num: 74

Candidate Starts for ForGetIt_32:

(Start: 74 @26906 has 55 MA's),

Gene: FortCran_65 Start: 46494, Stop: 47009, Start Num: 55

Candidate Starts for FortCran_65:

(Start: 55 @46494 has 10 MA's), (103, 46578), (Start: 106 @46584 has 2 MA's), (Start: 119 @46644 has 1 MA's), (124, 46665), (133, 46701), (142, 46737), (158, 46821), (190, 46929), (196, 46944), (213, 46977), (215, 46980), (224, 47001),

Gene: Frankenweenie_230 Start: 138966, Stop: 139478, Start Num: 83

Candidate Starts for Frankenweenie_230:

(21, 138783), (Start: 83 @138966 has 67 MA's), (164, 139251), (171, 139272), (183, 139320), (185, 139332), (206, 139383), (220, 139416), (227, 139425),

Gene: Fred313_36 Start: 27551, Stop: 27165, Start Num: 85

Candidate Starts for Fred313_36:

(Start: 85 @27551 has 100 MA's), (150, 27353),

Gene: GMA2_70 Start: 73346, Stop: 72861, Start Num: 83

Candidate Starts for GMA2_70:

(71, 73370), (Start: 83 @73346 has 67 MA's), (103, 73307), (Start: 106 @73301 has 2 MA's), (187, 72983), (190, 72974), (217, 72914), (225, 72896),

Gene: Gemma_40 Start: 28397, Stop: 28014, Start Num: 85

Candidate Starts for Gemma_40:

(13, 28625), (Start: 68 @28424 has 21 MA's), (Start: 85 @28397 has 100 MA's), (Start: 109 @28352 has 32 MA's), (152, 28181), (153, 28169),

Gene: Genie2_228 Start: 109165, Stop: 109533, Start Num: 109

Candidate Starts for Genie2_228:

(98, 109132), (Start: 104 @109150 has 1 MA's), (Start: 109 @109165 has 32 MA's), (Start: 122 @109225 has 8 MA's), (Start: 128 @109249 has 12 MA's), (134, 109270), (143, 109315), (154, 109369), (156, 109384),

Gene: George_31 Start: 26981, Stop: 26472, Start Num: 74

Candidate Starts for George_31:

(Start: 74 @26981 has 55 MA's),

Gene: Ghouboy_32 Start: 27221, Stop: 26715, Start Num: 77

Candidate Starts for Ghouboy_32:

(Start: 77 @27221 has 5 MA's),

Gene: Gibbi_239 Start: 109321, Stop: 109689, Start Num: 109

Candidate Starts for Gibbi_239:

(Start: 109 @109321 has 32 MA's), (Start: 122 @109381 has 8 MA's), (Start: 128 @109405 has 12 MA's), (143, 109471), (151, 109492), (154, 109525), (156, 109540), (202, 109675),

Gene: Gibson_71 Start: 50674, Stop: 50318, Start Num: 109

Candidate Starts for Gibson_71:

(Start: 80 @50734 has 3 MA's), (Start: 100 @50698 has 2 MA's), (Start: 106 @50686 has 2 MA's), (Start: 109 @50674 has 32 MA's), (111, 50668), (114, 50653), (Start: 117 @50632 has 2 MA's), (154, 50476), (159, 50452), (174, 50413), (175, 50410), (193, 50356), (198, 50347),

Gene: Gill_65 Start: 46357, Stop: 46827, Start Num: 82

Candidate Starts for Gill_65:

(45, 46288), (Start: 55 @46312 has 10 MA's), (Start: 82 @46357 has 4 MA's), (103, 46396), (Start: 106 @46402 has 2 MA's), (Start: 119 @46462 has 1 MA's), (124, 46483), (133, 46519), (142, 46555), (158, 46639), (190, 46747), (196, 46762), (213, 46795), (215, 46798), (224, 46819),

Gene: GingkoMaracino_41 Start: 28489, Stop: 28079, Start Num: 68
Candidate Starts for GingkoMaracino_41:
(Start: 68 @28489 has 21 MA's), (Start: 85 @28462 has 100 MA's), (Start: 109 @28417 has 32 MA's),
(152, 28246), (153, 28234),

Gene: GirlDinner_34 Start: 26398, Stop: 26871, Start Num: 83
Candidate Starts for GirlDinner_34:
(Start: 83 @26398 has 67 MA's), (Start: 109 @26443 has 32 MA's), (Start: 112 @26452 has 2 MA's),
(116, 26476), (126, 26518), (157, 26668), (217, 26839), (223, 26854),

Gene: Gladiator_40 Start: 26599, Stop: 26207, Start Num: 74
Candidate Starts for Gladiator_40:
(Start: 74 @26599 has 55 MA's), (132, 26452), (147, 26407), (153, 26365), (158, 26338),

Gene: Goby_34 Start: 26511, Stop: 26990, Start Num: 81
Candidate Starts for Goby_34:
(Start: 81 @26511 has 5 MA's), (116, 26592), (Start: 119 @26607 has 1 MA's), (162, 26802), (217,
26958), (223, 26973),

Gene: GodonK_189 Start: 98192, Stop: 97662, Start Num: 67
Candidate Starts for GodonK_189:
(Start: 67 @98192 has 2 MA's), (71, 98186), (Start: 106 @98117 has 2 MA's), (123, 98039), (168,
97868), (174, 97847), (190, 97784), (208, 97742), (216, 97730), (233, 97688),

Gene: Godpower_35 Start: 26506, Stop: 26985, Start Num: 81
Candidate Starts for Godpower_35:
(Start: 81 @26506 has 5 MA's), (116, 26587), (Start: 119 @26602 has 1 MA's), (162, 26797), (217,
26953), (223, 26968),

Gene: Goose_36 Start: 27589, Stop: 27062, Start Num: 93
Candidate Starts for Goose_36:
(Start: 93 @27589 has 13 MA's), (184, 27244), (189, 27229),

Gene: Gravy_64 Start: 45990, Stop: 46505, Start Num: 55
Candidate Starts for Gravy_64:
(Start: 55 @45990 has 10 MA's), (103, 46074), (Start: 106 @46080 has 2 MA's), (Start: 119 @46140
has 1 MA's), (124, 46161), (133, 46197), (142, 46233), (158, 46317), (190, 46425), (196, 46440), (213,
46473), (215, 46476), (224, 46497),

Gene: Grayson_194 Start: 100750, Stop: 101079, Start Num: 120
Candidate Starts for Grayson_194:
(Start: 120 @100750 has 2 MA's), (Start: 125 @100774 has 15 MA's), (146, 100861), (155, 100918),
(180, 101002),

Gene: GreenWeasel_36 Start: 26199, Stop: 26711, Start Num: 60
Candidate Starts for GreenWeasel_36:
(44, 26163), (Start: 60 @26199 has 2 MA's), (Start: 83 @26235 has 67 MA's), (Start: 109 @26280 has
32 MA's), (116, 26313), (Start: 117 @26322 has 2 MA's), (123, 26346), (173, 26550), (217, 26679),

Gene: Grif_41 Start: 28650, Stop: 28267, Start Num: 85
Candidate Starts for Grif_41:

(Start: 68 @28677 has 21 MA's), (Start: 85 @28650 has 100 MA's), (Start: 109 @28605 has 32 MA's), (152, 28434), (153, 28422),

Gene: Groundhog_31 Start: 26278, Stop: 25670, Start Num: 91

Candidate Starts for Groundhog_31:

(Start: 91 @26278 has 11 MA's), (186, 25924), (212, 25861), (234, 25810), (235, 25804),

Gene: Groupthink_41 Start: 28401, Stop: 28018, Start Num: 85

Candidate Starts for Groupthink_41:

(13, 28629), (Start: 68 @28428 has 21 MA's), (Start: 85 @28401 has 100 MA's), (Start: 109 @28356 has 32 MA's), (152, 28185), (153, 28173),

Gene: Grub_41 Start: 28595, Stop: 28185, Start Num: 68

Candidate Starts for Grub_41:

(Start: 68 @28595 has 21 MA's), (Start: 85 @28568 has 100 MA's), (Start: 109 @28523 has 32 MA's), (152, 28352), (153, 28340),

Gene: Grum1_41 Start: 28602, Stop: 28192, Start Num: 68

Candidate Starts for Grum1_41:

(Start: 68 @28602 has 21 MA's), (Start: 85 @28575 has 100 MA's), (Start: 109 @28530 has 32 MA's), (152, 28359), (153, 28347),

Gene: Gruunaga_40 Start: 26598, Stop: 26206, Start Num: 74

Candidate Starts for Gruunaga_40:

(Start: 74 @26598 has 55 MA's), (132, 26451), (147, 26406), (153, 26364), (158, 26337),

Gene: GtownJaz_41 Start: 28577, Stop: 28194, Start Num: 85

Candidate Starts for GtownJaz_41:

(Start: 68 @28604 has 21 MA's), (Start: 85 @28577 has 100 MA's), (Start: 109 @28532 has 32 MA's), (152, 28361), (153, 28349),

Gene: Gusicorn_66 Start: 46400, Stop: 46861, Start Num: 68

Candidate Starts for Gusicorn_66:

(Start: 62 @46391 has 16 MA's), (Start: 68 @46400 has 21 MA's), (Start: 119 @46529 has 1 MA's), (142, 46622), (168, 46730), (194, 46823),

Gene: HINdeR_35 Start: 29947, Stop: 29549, Start Num: 94

Candidate Starts for HINdeR_35:

(Start: 94 @29947 has 37 MA's), (153, 29719), (173, 29653), (189, 29587), (202, 29557),

Gene: Haizum_36 Start: 26732, Stop: 27217, Start Num: 79

Candidate Starts for Haizum_36:

(Start: 79 @26732 has 13 MA's), (116, 26816), (Start: 119 @26831 has 1 MA's), (169, 27047), (217, 27185), (223, 27200),

Gene: Hammer_40 Start: 26429, Stop: 26040, Start Num: 74

Candidate Starts for Hammer_40:

(Start: 74 @26429 has 55 MA's), (153, 26198), (158, 26171), (189, 26066),

Gene: HangryHippo_215 Start: 107854, Stop: 108144, Start Num: 128

Candidate Starts for HangryHippo_215:

(Start: 122 @107830 has 8 MA's), (Start: 125 @107842 has 15 MA's), (Start: 128 @107854 has 12 MA's), (143, 107920), (154, 107974), (156, 107989), (202, 108124),

Gene: Hank144_36 Start: 26811, Stop: 27266, Start Num: 83

Candidate Starts for Hank144_36:

(Start: 83 @26811 has 67 MA's), (Start: 106 @26844 has 2 MA's), (Start: 109 @26856 has 32 MA's), (116, 26889), (Start: 117 @26898 has 2 MA's), (174, 27117), (217, 27234), (223, 27249),

Gene: HashRod_41 Start: 28574, Stop: 28191, Start Num: 85

Candidate Starts for HashRod_41:

(Start: 68 @28601 has 21 MA's), (Start: 85 @28574 has 100 MA's), (103, 28547), (Start: 109 @28529 has 32 MA's), (152, 28358), (153, 28346),

Gene: HaugeAnator_54 Start: 29438, Stop: 29022, Start Num: 93

Candidate Starts for HaugeAnator_54:

(66, 29480), (Start: 93 @29438 has 13 MA's), (Start: 119 @29351 has 1 MA's), (143, 29255), (144, 29252), (147, 29246), (163, 29168),

Gene: HaveUMetTed_41 Start: 28394, Stop: 28011, Start Num: 85

Candidate Starts for HaveUMetTed_41:

(Start: 68 @28421 has 21 MA's), (Start: 85 @28394 has 100 MA's), (Start: 109 @28349 has 32 MA's), (152, 28178), (153, 28166),

Gene: Heathen_36 Start: 27607, Stop: 27221, Start Num: 85

Candidate Starts for Heathen_36:

(Start: 85 @27607 has 100 MA's), (150, 27409),

Gene: HelDan_36 Start: 27859, Stop: 27473, Start Num: 85

Candidate Starts for HelDan_36:

(Start: 85 @27859 has 100 MA's), (150, 27661),

Gene: Heliosoles_40 Start: 28401, Stop: 28018, Start Num: 85

Candidate Starts for Heliosoles_40:

(13, 28632), (Start: 68 @28428 has 21 MA's), (Start: 85 @28401 has 100 MA's), (Start: 109 @28356 has 32 MA's), (152, 28185), (153, 28173),

Gene: Hercules11_41 Start: 28611, Stop: 28201, Start Num: 68

Candidate Starts for Hercules11_41:

(Start: 68 @28611 has 21 MA's), (Start: 85 @28584 has 100 MA's), (Start: 109 @28539 has 32 MA's), (152, 28368), (153, 28356),

Gene: Hexamo_40 Start: 26376, Stop: 25987, Start Num: 76

Candidate Starts for Hexamo_40:

(Start: 76 @26376 has 18 MA's), (132, 26232), (147, 26187), (153, 26145), (158, 26118),

Gene: Hippo_34 Start: 26056, Stop: 26544, Start Num: 73

Candidate Starts for Hippo_34:

(16, 25876), (22, 25912), (44, 26008), (Start: 73 @26056 has 36 MA's), (108, 26128), (116, 26164), (Start: 117 @26173 has 2 MA's), (129, 26221), (142, 26275), (155, 26350), (173, 26386), (174, 26392), (217, 26512), (231, 26539),

Gene: Hookmount_35 Start: 27810, Stop: 27382, Start Num: 88

Candidate Starts for Hookmount_35:

(Start: 85 @27813 has 100 MA's), (Start: 88 @27810 has 11 MA's), (Start: 109 @27765 has 32 MA's), (145, 27627), (190, 27450),

Gene: Hoot_40 Start: 26594, Stop: 26202, Start Num: 74

Candidate Starts for Hoot_40:

(Start: 74 @26594 has 55 MA's), (132, 26447), (147, 26402), (153, 26360), (158, 26333),

Gene: Hortihabitatio_65 Start: 47098, Stop: 47610, Start Num: 62

Candidate Starts for Hortihabitatio_65:

(36, 47032), (41, 47053), (57, 47089), (Start: 62 @47098 has 16 MA's), (Start: 68 @47107 has 21 MA's), (Start: 119 @47236 has 1 MA's), (152, 47374), (189, 47518),

Gene: HuhtaEnerson15_32 Start: 26972, Stop: 26463, Start Num: 74

Candidate Starts for HuhtaEnerson15_32:

(Start: 74 @26972 has 55 MA's),

Gene: Hydra_36 Start: 26216, Stop: 26704, Start Num: 73

Candidate Starts for Hydra_36:

(44, 26168), (Start: 73 @26216 has 36 MA's), (108, 26288), (Start: 117 @26333 has 2 MA's), (142, 26435), (174, 26552), (217, 26672), (231, 26699),

Gene: Hydrus_66 Start: 47228, Stop: 47680, Start Num: 68

Candidate Starts for Hydrus_66:

(37, 47162), (53, 47207), (Start: 62 @47219 has 16 MA's), (Start: 68 @47228 has 21 MA's), (Start: 119 @47360 has 1 MA's), (137, 47426), (142, 47453), (154, 47516), (168, 47561),

Gene: Ibantik_13 Start: 5594, Stop: 5154, Start Num: 84

Candidate Starts for Ibantik_13:

(Start: 84 @5594 has 1 MA's), (174, 5291), (212, 5186),

Gene: IchabodCrane_225 Start: 108836, Stop: 109204, Start Num: 109

Candidate Starts for IchabodCrane_225:

(Start: 109 @108836 has 32 MA's), (Start: 122 @108896 has 8 MA's), (Start: 128 @108920 has 12 MA's), (140, 108965), (143, 108986), (151, 109007), (154, 109040), (156, 109055), (202, 109190),

Gene: Idleandcovert_36 Start: 27799, Stop: 27413, Start Num: 85

Candidate Starts for Idleandcovert_36:

(Start: 85 @27799 has 100 MA's), (150, 27601),

Gene: Immanuel3_53 Start: 29441, Stop: 29025, Start Num: 93

Candidate Starts for Immanuel3_53:

(66, 29483), (Start: 93 @29441 has 13 MA's), (Start: 119 @29354 has 1 MA's), (129, 29315), (142, 29264), (147, 29249), (149, 29243),

Gene: Indigo_33 Start: 25684, Stop: 26172, Start Num: 73

Candidate Starts for Indigo_33:

(44, 25636), (Start: 73 @25684 has 36 MA's), (108, 25756), (Start: 117 @25801 has 2 MA's), (142, 25903), (174, 26020), (217, 26140), (231, 26167),

Gene: Indra_42 Start: 26618, Stop: 26226, Start Num: 74

Candidate Starts for Indra_42:

(Start: 74 @26618 has 55 MA's), (132, 26471), (147, 26426), (153, 26384), (158, 26357),

Gene: Iracema64_36 Start: 28062, Stop: 27583, Start Num: 94

Candidate Starts for Iracema64_36:

(Start: 94 @28062 has 37 MA's), (182, 27729), (189, 27702),

Gene: Isca_36 Start: 27568, Stop: 27182, Start Num: 85

Candidate Starts for Isca_36:

(Start: 85 @27568 has 100 MA's),

Gene: Isiphiwo_40 Start: 26688, Stop: 26296, Start Num: 74

Candidate Starts for Isiphiwo_40:

(Start: 74 @26688 has 55 MA's), (132, 26541), (147, 26496), (153, 26454), (158, 26427), (159, 26424),

Gene: Issmi_36 Start: 27365, Stop: 27823, Start Num: 83

Candidate Starts for Issmi_36:

(Start: 83 @27365 has 67 MA's), (Start: 109 @27410 has 32 MA's), (116, 27443), (Start: 117 @27452 has 2 MA's), (173, 27665), (174, 27671), (182, 27704), (217, 27791), (223, 27806),

Gene: Izzy_35 Start: 26089, Stop: 26577, Start Num: 73

Candidate Starts for Izzy_35:

(27, 25984), (44, 26041), (Start: 73 @26089 has 36 MA's), (108, 26161), (Start: 117 @26206 has 2 MA's), (142, 26308), (174, 26425), (217, 26545), (231, 26572),

Gene: JF2_36 Start: 27319, Stop: 26933, Start Num: 85

Candidate Starts for JF2_36:

(Start: 85 @27319 has 100 MA's),

Gene: JF4_36 Start: 27319, Stop: 26933, Start Num: 85

Candidate Starts for JF4_36:

(Start: 85 @27319 has 100 MA's),

Gene: JHC117_41 Start: 28574, Stop: 28191, Start Num: 85

Candidate Starts for JHC117_41:

(Start: 68 @28601 has 21 MA's), (Start: 85 @28574 has 100 MA's), (Start: 109 @28529 has 32 MA's), (152, 28358), (153, 28346),

Gene: Jabiru_33 Start: 26731, Stop: 26219, Start Num: 74

Candidate Starts for Jabiru_33:

(Start: 74 @26731 has 55 MA's), (141, 26554),

Gene: Janus_35 Start: 26738, Stop: 27211, Start Num: 83

Candidate Starts for Janus_35:

(Start: 83 @26738 has 67 MA's), (Start: 109 @26783 has 32 MA's), (Start: 112 @26792 has 2 MA's), (116, 26816), (Start: 117 @26825 has 2 MA's), (126, 26858), (157, 27008), (217, 27179), (223, 27194),

Gene: Jash_35 Start: 26042, Stop: 26530, Start Num: 73

Candidate Starts for Jash_35:

(27, 25937), (44, 25994), (Start: 73 @26042 has 36 MA's), (108, 26114), (Start: 117 @26159 has 2 MA's), (142, 26261), (174, 26378), (217, 26498), (231, 26525),

Gene: Jay2Jay_222 Start: 108801, Stop: 109115, Start Num: 122

Candidate Starts for Jay2Jay_222:

(Start: 122 @108801 has 8 MA's), (Start: 125 @108813 has 15 MA's), (Start: 128 @108825 has 12 MA's), (143, 108891), (154, 108945), (156, 108960), (202, 109095),

Gene: Jeffabunny_40 Start: 26412, Stop: 26023, Start Num: 76

Candidate Starts for Jeffabunny_40:

(Start: 76 @26412 has 18 MA's), (132, 26268), (147, 26223), (153, 26181), (158, 26154),

Gene: JenCasNa_41 Start: 28575, Stop: 28192, Start Num: 85

Candidate Starts for JenCasNa_41:

(Start: 68 @28602 has 21 MA's), (Start: 85 @28575 has 100 MA's), (Start: 109 @28530 has 32 MA's), (152, 28359), (153, 28347),

Gene: JeppNRM_41 Start: 28399, Stop: 28016, Start Num: 85

Candidate Starts for JeppNRM_41:

(13, 28630), (Start: 68 @28426 has 21 MA's), (Start: 85 @28399 has 100 MA's), (Start: 109 @28354 has 32 MA's), (152, 28183), (153, 28171),

Gene: Jevington_37 Start: 27148, Stop: 27609, Start Num: 83

Candidate Starts for Jevington_37:

(Start: 83 @27148 has 67 MA's), (Start: 109 @27196 has 32 MA's), (116, 27229), (173, 27451), (174, 27457), (182, 27490), (217, 27577), (223, 27592),

Gene: JewelBug_41 Start: 26622, Stop: 26230, Start Num: 74

Candidate Starts for JewelBug_41:

(Start: 74 @26622 has 55 MA's), (132, 26475), (147, 26430), (153, 26388), (158, 26361),

Gene: JimJam_238 Start: 110757, Stop: 111125, Start Num: 109

Candidate Starts for JimJam_238:

(Start: 109 @110757 has 32 MA's), (Start: 122 @110817 has 8 MA's), (Start: 128 @110841 has 12 MA's), (143, 110907), (151, 110928), (154, 110961), (156, 110976), (202, 111111),

Gene: Jobu08_40 Start: 28405, Stop: 28022, Start Num: 85

Candidate Starts for Jobu08_40:

(Start: 68 @28432 has 21 MA's), (Start: 85 @28405 has 100 MA's), (Start: 109 @28360 has 32 MA's), (152, 28189), (153, 28177),

Gene: Jodelie19_62 Start: 47735, Stop: 48253, Start Num: 35

Candidate Starts for Jodelie19_62:

(Start: 35 @47735 has 1 MA's), (47, 47768), (Start: 62 @47798 has 16 MA's), (Start: 68 @47807 has 21 MA's), (Start: 119 @47939 has 1 MA's), (142, 48032), (168, 48140), (181, 48191),

Gene: Jollison_228 Start: 108967, Stop: 109335, Start Num: 109

Candidate Starts for Jollison_228:

(Start: 109 @108967 has 32 MA's), (Start: 122 @109027 has 8 MA's), (Start: 128 @109051 has 12 MA's), (143, 109117), (151, 109138), (154, 109171), (156, 109186), (202, 109321),

Gene: Jordennis_40 Start: 26606, Stop: 26214, Start Num: 74

Candidate Starts for Jordennis_40:

(Start: 74 @26606 has 55 MA's), (132, 26459), (147, 26414), (153, 26372), (158, 26345),

Gene: Jovo_32 Start: 27162, Stop: 26653, Start Num: 74

Candidate Starts for Jovo_32:

(Start: 74 @27162 has 55 MA's),

Gene: JustBecause_213 Start: 126485, Stop: 127003, Start Num: 83

Candidate Starts for JustBecause_213:

(21, 126302), (Start: 83 @126485 has 67 MA's), (103, 126524), (178, 126833), (183, 126845), (185, 126857), (206, 126908),

Gene: KADY_41 Start: 28574, Stop: 28191, Start Num: 85

Candidate Starts for KADY_41:

(Start: 68 @28601 has 21 MA's), (Start: 85 @28574 has 100 MA's), (103, 28547), (Start: 109 @28529 has 32 MA's), (152, 28358), (153, 28346),

Gene: Kachowdy_36 Start: 27859, Stop: 27473, Start Num: 85

Candidate Starts for Kachowdy_36:

(Start: 85 @27859 has 100 MA's), (150, 27661),

Gene: Kaine_35 Start: 27263, Stop: 27667, Start Num: 83

Candidate Starts for Kaine_35:

(Start: 83 @27263 has 67 MA's), (Start: 112 @27317 has 2 MA's), (Start: 117 @27350 has 2 MA's), (126, 27383), (189, 27644), (191, 27650),

Gene: Kalb97_41 Start: 28400, Stop: 28017, Start Num: 85

Candidate Starts for Kalb97_41:

(13, 28628), (Start: 68 @28427 has 21 MA's), (Start: 85 @28400 has 100 MA's), (Start: 109 @28355 has 32 MA's), (152, 28184), (153, 28172),

Gene: Kalnoky_41 Start: 28401, Stop: 28018, Start Num: 85

Candidate Starts for Kalnoky_41:

(13, 28626), (Start: 68 @28428 has 21 MA's), (Start: 85 @28401 has 100 MA's), (Start: 109 @28356 has 32 MA's), (152, 28185), (153, 28173),

Gene: Karimac_231 Start: 109152, Stop: 109520, Start Num: 109

Candidate Starts for Karimac_231:

(Start: 109 @109152 has 32 MA's), (Start: 122 @109212 has 8 MA's), (Start: 128 @109236 has 12 MA's), (143, 109302), (151, 109323), (154, 109356), (156, 109371), (202, 109506),

Gene: Katalie_34 Start: 26236, Stop: 26655, Start Num: 83

Candidate Starts for Katalie_34:

(Start: 83 @26236 has 67 MA's), (108, 26281), (Start: 109 @26284 has 32 MA's), (Start: 117 @26326 has 2 MA's), (130, 26377), (132, 26386), (142, 26428), (165, 26530),

Gene: Kazan_41 Start: 26622, Stop: 26230, Start Num: 74

Candidate Starts for Kazan_41:

(Start: 74 @26622 has 55 MA's), (132, 26475), (147, 26430), (153, 26388), (158, 26361),

Gene: Kela_211 Start: 126330, Stop: 126848, Start Num: 83

Candidate Starts for Kela_211:

(21, 126147), (Start: 83 @126330 has 67 MA's), (103, 126369), (178, 126678), (183, 126690), (185, 126702), (206, 126753),

Gene: Kenosha_63 Start: 46678, Stop: 47133, Start Num: 62

Candidate Starts for Kenosha_63:

(37, 46621), (50, 46657), (Start: 62 @46678 has 16 MA's), (Start: 68 @46687 has 21 MA's), (Start: 119 @46816 has 1 MA's), (142, 46909), (168, 47017), (181, 47068),

Gene: KentuckyRacer_237 Start: 110672, Stop: 111040, Start Num: 109

Candidate Starts for KentuckyRacer_237:

(Start: 109 @110672 has 32 MA's), (Start: 122 @110732 has 8 MA's), (Start: 128 @110756 has 12 MA's), (143, 110822), (151, 110843), (154, 110876), (156, 110891), (202, 111026),

Gene: Kerberos_40 Start: 27983, Stop: 27597, Start Num: 83

Candidate Starts for Kerberos_40:

(Start: 83 @27983 has 67 MA's), (153, 27752),

Gene: Kerry_64 Start: 45990, Stop: 46505, Start Num: 55

Candidate Starts for Kerry_64:

(Start: 55 @45990 has 10 MA's), (103, 46074), (Start: 106 @46080 has 2 MA's), (Start: 119 @46140 has 1 MA's), (124, 46161), (133, 46197), (142, 46233), (158, 46317), (190, 46425), (196, 46440), (213, 46473), (215, 46476), (224, 46497),

Gene: Kimona_33 Start: 25900, Stop: 25490, Start Num: 87

Candidate Starts for Kimona_33:

(Start: 87 @25900 has 1 MA's), (132, 25753), (153, 25672), (182, 25567),

Gene: Kipper29_40 Start: 26610, Stop: 26224, Start Num: 76

Candidate Starts for Kipper29_40:

(Start: 76 @26610 has 18 MA's), (153, 26382), (158, 26355),

Gene: KittenMittens_33 Start: 26664, Stop: 26080, Start Num: 88

Candidate Starts for KittenMittens_33:

(20, 26859), (Start: 88 @26664 has 11 MA's), (189, 26304), (197, 26286),

Gene: Koko_40 Start: 26968, Stop: 26579, Start Num: 74

Candidate Starts for Koko_40:

(Start: 74 @26968 has 55 MA's), (153, 26737), (158, 26710), (189, 26605),

Gene: Kradal_214 Start: 129330, Stop: 129839, Start Num: 83

Candidate Starts for Kradal_214:

(21, 129147), (Start: 83 @129330 has 67 MA's), (138, 129504), (171, 129621), (207, 129738), (236, 129804), (237, 129834),

Gene: Kratark_35 Start: 27746, Stop: 27267, Start Num: 94

Candidate Starts for Kratark_35:

(Start: 94 @27746 has 37 MA's), (182, 27413), (189, 27386),

Gene: Kremtemulon_35 Start: 27796, Stop: 27317, Start Num: 76

Candidate Starts for Kremtemulon_35:

(Start: 55 @27826 has 10 MA's), (Start: 76 @27796 has 18 MA's), (182, 27463), (189, 27436),

Gene: Kristoff_37 Start: 28181, Stop: 27642, Start Num: 78

Candidate Starts for Kristoff_37:

(Start: 78 @28181 has 6 MA's), (184, 27824), (189, 27809),

Gene: Kumquat_54 Start: 29457, Stop: 29041, Start Num: 96

Candidate Starts for Kumquat_54:

(34, 29580), (Start: 84 @29472 has 1 MA's), (Start: 96 @29457 has 3 MA's), (153, 29229),

Gene: LBerry_41 Start: 28576, Stop: 28193, Start Num: 85

Candidate Starts for LBerry_41:

(Start: 68 @28603 has 21 MA's), (Start: 85 @28576 has 100 MA's), (Start: 109 @28531 has 32 MA's),
(152, 28360), (153, 28348),

Gene: LHTSCC_37 Start: 28100, Stop: 27660, Start Num: 94
Candidate Starts for LHTSCC_37:
(Start: 94 @28100 has 37 MA's), (189, 27740), (190, 27737),

Gene: Lambert1_35 Start: 27809, Stop: 27381, Start Num: 88
Candidate Starts for Lambert1_35:
(Start: 85 @27812 has 100 MA's), (Start: 88 @27809 has 11 MA's), (Start: 109 @27764 has 32 MA's),
(145, 27626), (190, 27449),

Gene: Lannister_36 Start: 26707, Stop: 27195, Start Num: 73
Candidate Starts for Lannister_36:
(16, 26527), (44, 26659), (Start: 73 @26707 has 36 MA's), (108, 26779), (182, 27076), (217, 27163),
(231, 27190),

Gene: Larnav_216 Start: 108336, Stop: 108638, Start Num: 125
Candidate Starts for Larnav_216:
(Start: 122 @108324 has 8 MA's), (Start: 125 @108336 has 15 MA's), (Start: 128 @108348 has 12
MA's), (143, 108414), (154, 108468), (156, 108483), (202, 108618),

Gene: LarryKay_40 Start: 28576, Stop: 28193, Start Num: 85
Candidate Starts for LarryKay_40:
(Start: 68 @28603 has 21 MA's), (Start: 85 @28576 has 100 MA's), (103, 28549), (Start: 109 @28531
has 32 MA's), (152, 28360), (153, 28348),

Gene: Legacy_34 Start: 25659, Stop: 26147, Start Num: 73
Candidate Starts for Legacy_34:
(44, 25611), (Start: 73 @25659 has 36 MA's), (108, 25731), (Start: 117 @25776 has 2 MA's), (142,
25878), (174, 25995), (217, 26115), (231, 26142),

Gene: Leo04_217 Start: 108856, Stop: 109170, Start Num: 122
Candidate Starts for Leo04_217:
(Start: 122 @108856 has 8 MA's), (Start: 125 @108868 has 15 MA's), (Start: 128 @108880 has 12
MA's), (143, 108946), (154, 109000), (156, 109015), (202, 109150),

Gene: Lev2_32 Start: 26794, Stop: 26285, Start Num: 74
Candidate Starts for Lev2_32:
(Start: 74 @26794 has 55 MA's),

Gene: Leviticus_34 Start: 25688, Stop: 26176, Start Num: 73
Candidate Starts for Leviticus_34:
(44, 25640), (Start: 73 @25688 has 36 MA's), (108, 25760), (Start: 117 @25805 has 2 MA's), (142,
25907), (174, 26024), (217, 26144), (231, 26171),

Gene: Lika_34 Start: 26509, Stop: 26988, Start Num: 81
Candidate Starts for Lika_34:
(Start: 81 @26509 has 5 MA's), (116, 26590), (Start: 119 @26605 has 1 MA's), (162, 26800), (217,
26956), (223, 26971),

Gene: LilMartin_216 Start: 106835, Stop: 107152, Start Num: 125
Candidate Starts for LilMartin_216:

(107, 106754), (Start: 122 @106823 has 8 MA's), (Start: 125 @106835 has 15 MA's), (Start: 128 @106847 has 12 MA's), (136, 106874), (143, 106913), (154, 106967), (156, 106982), (188, 107084), (209, 107135), (210, 107138),

Gene: Lilbooboo_46 Start: 33605, Stop: 34009, Start Num: 94

Candidate Starts for Lilbooboo_46:

(26, 33455), (Start: 83 @33593 has 67 MA's), (Start: 94 @33605 has 37 MA's), (Start: 119 @33698 has 1 MA's), (132, 33752), (190, 33974),

Gene: Lilbunny_39 Start: 26386, Stop: 25997, Start Num: 76

Candidate Starts for Lilbunny_39:

(Start: 76 @26386 has 18 MA's), (132, 26242), (147, 26197), (153, 26155), (158, 26128),

Gene: Lilith_41 Start: 28569, Stop: 28186, Start Num: 85

Candidate Starts for Lilith_41:

(Start: 68 @28596 has 21 MA's), (Start: 85 @28569 has 100 MA's), (Start: 109 @28524 has 32 MA's), (152, 28353), (153, 28341),

Gene: LittleCherry_32 Start: 26982, Stop: 26473, Start Num: 74

Candidate Starts for LittleCherry_32:

(Start: 74 @26982 has 55 MA's),

Gene: LittleGuy_35 Start: 27703, Stop: 27230, Start Num: 94

Candidate Starts for LittleGuy_35:

(Start: 94 @27703 has 37 MA's), (186, 27352), (190, 27340), (218, 27280), (222, 27268),

Gene: Lizz_71 Start: 50574, Stop: 50158, Start Num: 80

Candidate Starts for Lizz_71:

(Start: 80 @50574 has 3 MA's), (Start: 106 @50526 has 2 MA's), (Start: 109 @50514 has 32 MA's), (111, 50508), (114, 50493), (116, 50481), (158, 50295), (159, 50292), (175, 50250), (198, 50187), (203, 50175),

Gene: Loofah_35 Start: 26915, Stop: 27400, Start Num: 79

Candidate Starts for Loofah_35:

(Start: 79 @26915 has 13 MA's), (116, 26999), (Start: 119 @27014 has 1 MA's), (217, 27368), (223, 27383),

Gene: Lorelei_35 Start: 26571, Stop: 27047, Start Num: 83

Candidate Starts for Lorelei_35:

(16, 26373), (22, 26409), (44, 26505), (Start: 79 @26565 has 13 MA's), (Start: 83 @26571 has 67 MA's), (116, 26649), (Start: 119 @26664 has 1 MA's), (162, 26859), (217, 27015), (223, 27030),

Gene: Louie6_40 Start: 28575, Stop: 28192, Start Num: 85

Candidate Starts for Louie6_40:

(Start: 68 @28602 has 21 MA's), (Start: 85 @28575 has 100 MA's), (103, 28548), (Start: 109 @28530 has 32 MA's), (152, 28359), (153, 28347),

Gene: Lozinak_146 Start: 79968, Stop: 80357, Start Num: 90

Candidate Starts for Lozinak_146:

(Start: 90 @79968 has 4 MA's), (131, 80106), (190, 80328), (199, 80346),

Gene: LugYA_43 Start: 28576, Stop: 28193, Start Num: 85

Candidate Starts for LugYA_43:

(Start: 68 @28603 has 21 MA's), (Start: 85 @28576 has 100 MA's), (Start: 109 @28531 has 32 MA's), (152, 28360), (153, 28348),

Gene: LukeCage_234 Start: 111003, Stop: 111371, Start Num: 109

Candidate Starts for LukeCage_234:

(98, 110970), (Start: 104 @110988 has 1 MA's), (Start: 109 @111003 has 32 MA's), (Start: 122 @111063 has 8 MA's), (123, 111069), (Start: 128 @111087 has 12 MA's), (143, 111153), (154, 111207), (156, 111222), (202, 111357),

Gene: Lululemon_213 Start: 107235, Stop: 107525, Start Num: 128

Candidate Starts for Lululemon_213:

(Start: 122 @107211 has 8 MA's), (Start: 125 @107223 has 15 MA's), (Start: 128 @107235 has 12 MA's), (143, 107301), (154, 107355), (156, 107370), (202, 107505),

Gene: MA5_36 Start: 27451, Stop: 27065, Start Num: 85

Candidate Starts for MA5_36:

(Start: 85 @27451 has 100 MA's), (150, 27253),

Gene: MK4_36 Start: 27553, Stop: 27167, Start Num: 85

Candidate Starts for MK4_36:

(Start: 85 @27553 has 100 MA's),

Gene: MadMarie_41 Start: 28578, Stop: 28195, Start Num: 85

Candidate Starts for MadMarie_41:

(Start: 68 @28605 has 21 MA's), (Start: 85 @28578 has 100 MA's), (Start: 109 @28533 has 32 MA's), (152, 28362), (153, 28350),

Gene: Madvan_64 Start: 46114, Stop: 46566, Start Num: 68

Candidate Starts for Madvan_64:

(37, 46048), (Start: 62 @46105 has 16 MA's), (Start: 68 @46114 has 21 MA's), (Start: 119 @46246 has 1 MA's), (137, 46312), (142, 46339), (154, 46402), (168, 46447),

Gene: Magel_66 Start: 46272, Stop: 46742, Start Num: 82

Candidate Starts for Magel_66:

(45, 46203), (Start: 55 @46227 has 10 MA's), (Start: 82 @46272 has 4 MA's), (103, 46311), (Start: 106 @46317 has 2 MA's), (Start: 119 @46377 has 1 MA's), (124, 46398), (133, 46434), (142, 46470), (158, 46554), (190, 46662), (196, 46677), (213, 46710), (215, 46713), (224, 46734),

Gene: Mainiac_41 Start: 28569, Stop: 28186, Start Num: 85

Candidate Starts for Mainiac_41:

(Start: 68 @28596 has 21 MA's), (Start: 85 @28569 has 100 MA's), (Start: 109 @28524 has 32 MA's), (152, 28353), (153, 28341),

Gene: MajinBuu_65 Start: 46785, Stop: 47231, Start Num: 68

Candidate Starts for MajinBuu_65:

(Start: 35 @46713 has 1 MA's), (47, 46746), (Start: 62 @46776 has 16 MA's), (Start: 68 @46785 has 21 MA's), (Start: 119 @46917 has 1 MA's), (142, 47010), (168, 47118), (181, 47169),

Gene: Malinsilva_43 Start: 28568, Stop: 28185, Start Num: 85

Candidate Starts for Malinsilva_43:

(Start: 68 @28595 has 21 MA's), (Start: 85 @28568 has 100 MA's), (Start: 109 @28523 has 32 MA's), (152, 28352), (153, 28340),

Gene: Maneekul_34 Start: 26078, Stop: 26566, Start Num: 73

Candidate Starts for Maneekul_34:

(16, 25898), (44, 26030), (Start: 73 @26078 has 36 MA's), (108, 26150), (116, 26186), (Start: 117 @26195 has 2 MA's), (129, 26243), (173, 26408), (174, 26414), (217, 26534), (231, 26561),

Gene: Manu_41 Start: 28401, Stop: 28018, Start Num: 85

Candidate Starts for Manu_41:

(13, 28629), (Start: 68 @28428 has 21 MA's), (Start: 85 @28401 has 100 MA's), (Start: 109 @28356 has 32 MA's), (152, 28185), (153, 28173),

Gene: Manuel_51 Start: 29161, Stop: 28748, Start Num: 97

Candidate Starts for Manuel_51:

(Start: 97 @29161 has 1 MA's), (102, 29143), (Start: 119 @29077 has 1 MA's), (151, 28960), (166, 28885),

Gene: MarQuardt_41 Start: 28577, Stop: 28194, Start Num: 85

Candidate Starts for MarQuardt_41:

(Start: 68 @28604 has 21 MA's), (Start: 85 @28577 has 100 MA's), (Start: 109 @28532 has 32 MA's), (152, 28361), (153, 28349),

Gene: Marav_38 Start: 27473, Stop: 27934, Start Num: 83

Candidate Starts for Marav_38:

(Start: 83 @27473 has 67 MA's), (Start: 109 @27521 has 32 MA's), (116, 27554), (173, 27776), (174, 27782), (182, 27815), (217, 27902), (223, 27917),

Gene: Marchesa_36 Start: 27857, Stop: 27471, Start Num: 85

Candidate Starts for Marchesa_36:

(Start: 85 @27857 has 100 MA's), (150, 27659),

Gene: Mareelih_173 Start: 101362, Stop: 100859, Start Num: 86

Candidate Starts for Mareelih_173:

(Start: 86 @101362 has 3 MA's), (159, 101086), (168, 101065), (174, 101044), (216, 100924), (231, 100894),

Gene: Margo_35 Start: 27838, Stop: 27407, Start Num: 85

Candidate Starts for Margo_35:

(Start: 85 @27838 has 100 MA's), (Start: 88 @27835 has 11 MA's), (Start: 109 @27790 has 32 MA's), (145, 27652), (190, 27475),

Gene: Marie_41 Start: 28575, Stop: 28192, Start Num: 85

Candidate Starts for Marie_41:

(Start: 68 @28602 has 21 MA's), (Start: 85 @28575 has 100 MA's), (Start: 109 @28530 has 32 MA's), (152, 28359), (153, 28347),

Gene: Marius_41 Start: 28401, Stop: 28018, Start Num: 85

Candidate Starts for Marius_41:

(13, 28626), (Start: 68 @28428 has 21 MA's), (Start: 85 @28401 has 100 MA's), (Start: 109 @28356 has 32 MA's), (152, 28185), (153, 28173),

Gene: Marsus_229 Start: 108512, Stop: 108817, Start Num: 128

Candidate Starts for Marsus_229:

(Start: 122 @108488 has 8 MA's), (Start: 125 @108500 has 15 MA's), (Start: 128 @108512 has 12 MA's), (136, 108539), (139, 108554), (143, 108578), (154, 108632), (156, 108647), (209, 108800),

(210, 108803),

Gene: MarysWell_31 Start: 27030, Stop: 26521, Start Num: 74

Candidate Starts for MarysWell_31:

(Start: 74 @27030 has 55 MA's),

Gene: Maxo_36 Start: 27800, Stop: 27324, Start Num: 94

Candidate Starts for Maxo_36:

(Start: 94 @27800 has 37 MA's), (Start: 109 @27755 has 32 MA's), (145, 27617), (186, 27452), (190, 27440), (218, 27380), (222, 27368),

Gene: McFly_40 Start: 26616, Stop: 26224, Start Num: 74

Candidate Starts for McFly_40:

(Start: 74 @26616 has 55 MA's), (132, 26469), (147, 26424), (153, 26382), (158, 26355),

Gene: Medusa_36 Start: 27803, Stop: 27324, Start Num: 94

Candidate Starts for Medusa_36:

(Start: 94 @27803 has 37 MA's), (186, 27452), (190, 27440), (218, 27380), (222, 27368),

Gene: Melvin_37 Start: 27802, Stop: 27323, Start Num: 94

Candidate Starts for Melvin_37:

(Start: 94 @27802 has 37 MA's), (186, 27451), (190, 27439), (218, 27379), (222, 27367),

Gene: Methuselah_39 Start: 28570, Stop: 28187, Start Num: 85

Candidate Starts for Methuselah_39:

(Start: 68 @28597 has 21 MA's), (Start: 85 @28570 has 100 MA's), (103, 28543), (Start: 109 @28525 has 32 MA's), (152, 28354), (153, 28342),

Gene: Micasa_32 Start: 26944, Stop: 26438, Start Num: 77

Candidate Starts for Micasa_32:

(Start: 77 @26944 has 5 MA's),

Gene: Microwolf_41 Start: 28577, Stop: 28194, Start Num: 85

Candidate Starts for Microwolf_41:

(Start: 68 @28604 has 21 MA's), (Start: 85 @28577 has 100 MA's), (Start: 109 @28532 has 32 MA's), (152, 28361), (153, 28349),

Gene: Midas2_32 Start: 27021, Stop: 26512, Start Num: 74

Candidate Starts for Midas2_32:

(Start: 74 @27021 has 55 MA's),

Gene: Milcery_32 Start: 26986, Stop: 26477, Start Num: 74

Candidate Starts for Milcery_32:

(Start: 74 @26986 has 55 MA's),

Gene: Mildred21_226 Start: 106654, Stop: 106920, Start Num: 135

Candidate Starts for Mildred21_226:

(Start: 122 @106606 has 8 MA's), (Start: 128 @106630 has 12 MA's), (Start: 135 @106654 has 1 MA's), (143, 106696), (151, 106717), (154, 106750), (156, 106765), (158, 106771), (174, 106810), (202, 106900),

Gene: MindFlayer_224 Start: 108352, Stop: 108720, Start Num: 109

Candidate Starts for MindFlayer_224:

(Start: 109 @108352 has 32 MA's), (Start: 122 @108412 has 8 MA's), (Start: 128 @108436 has 12 MA's), (140, 108481), (143, 108502), (151, 108523), (154, 108556), (156, 108571), (202, 108706),

Gene: Miramae_35 Start: 28016, Stop: 27537, Start Num: 76

Candidate Starts for Miramae_35:

(Start: 76 @28016 has 18 MA's), (116, 27938), (Start: 117 @27929 has 2 MA's), (141, 27842), (189, 27656), (197, 27638), (214, 27605),

Gene: Misomonster_42 Start: 28573, Stop: 28190, Start Num: 85

Candidate Starts for Misomonster_42:

(Start: 68 @28600 has 21 MA's), (Start: 85 @28573 has 100 MA's), (103, 28546), (Start: 109 @28528 has 32 MA's), (152, 28357), (153, 28345),

Gene: MoneyMay_41 Start: 28602, Stop: 28192, Start Num: 68

Candidate Starts for MoneyMay_41:

(Start: 68 @28602 has 21 MA's), (Start: 85 @28575 has 100 MA's), (Start: 109 @28530 has 32 MA's), (152, 28359), (153, 28347),

Gene: Morrow_36 Start: 27804, Stop: 27328, Start Num: 94

Candidate Starts for Morrow_36:

(Start: 94 @27804 has 37 MA's), (Start: 109 @27759 has 32 MA's), (145, 27621), (186, 27456), (190, 27444), (218, 27384), (222, 27372),

Gene: Mossy_67 Start: 48112, Stop: 48564, Start Num: 62

Candidate Starts for Mossy_67:

(37, 48055), (Start: 62 @48112 has 16 MA's), (Start: 68 @48121 has 21 MA's), (Start: 119 @48250 has 1 MA's), (137, 48316), (142, 48343), (168, 48451),

Gene: MuchMore_43 Start: 28568, Stop: 28185, Start Num: 85

Candidate Starts for MuchMore_43:

(Start: 68 @28595 has 21 MA's), (Start: 85 @28568 has 100 MA's), (Start: 109 @28523 has 32 MA's), (152, 28352), (153, 28340),

Gene: Mugiwara_243 Start: 111539, Stop: 111907, Start Num: 109

Candidate Starts for Mugiwara_243:

(89, 111488), (98, 111506), (Start: 104 @111524 has 1 MA's), (Start: 109 @111539 has 32 MA's), (Start: 122 @111599 has 8 MA's), (123, 111605), (Start: 128 @111623 has 12 MA's), (134, 111644), (143, 111689), (154, 111743), (156, 111758),

Gene: MulchMansion_220 Start: 108481, Stop: 108786, Start Num: 128

Candidate Starts for MulchMansion_220:

(107, 108388), (Start: 122 @108457 has 8 MA's), (Start: 125 @108469 has 15 MA's), (Start: 128 @108481 has 12 MA's), (136, 108508), (143, 108547), (154, 108601), (156, 108616), (188, 108718), (209, 108769), (210, 108772),

Gene: Mundrea_35 Start: 27726, Stop: 27247, Start Num: 94

Candidate Starts for Mundrea_35:

(Start: 94 @27726 has 37 MA's), (189, 27366),

Gene: Nabi_35 Start: 26571, Stop: 27047, Start Num: 83

Candidate Starts for Nabi_35:

(16, 26373), (22, 26409), (44, 26505), (Start: 79 @26565 has 13 MA's), (Start: 83 @26571 has 67 MA's), (116, 26649), (Start: 119 @26664 has 1 MA's), (162, 26859), (217, 27015), (223, 27030),

Gene: Naca_33 Start: 27224, Stop: 26715, Start Num: 74

Candidate Starts for Naca_33:

(Start: 74 @27224 has 55 MA's),

Gene: Nadmeg_65 Start: 47342, Stop: 47797, Start Num: 62

Candidate Starts for Nadmeg_65:

(37, 47285), (50, 47321), (Start: 62 @47342 has 16 MA's), (Start: 68 @47351 has 21 MA's), (Start: 119 @47480 has 1 MA's), (142, 47573), (168, 47681), (181, 47732),

Gene: Naji_40 Start: 27983, Stop: 27597, Start Num: 83

Candidate Starts for Naji_40:

(Start: 83 @27983 has 67 MA's), (153, 27752),

Gene: Nanodon_36 Start: 26328, Stop: 26813, Start Num: 79

Candidate Starts for Nanodon_36:

(Start: 79 @26328 has 13 MA's), (116, 26412), (Start: 119 @26427 has 1 MA's), (160, 26616), (167, 26637), (173, 26655), (217, 26781), (223, 26796),

Gene: Navo_211 Start: 106571, Stop: 106873, Start Num: 125

Candidate Starts for Navo_211:

(Start: 122 @106559 has 8 MA's), (Start: 125 @106571 has 15 MA's), (Start: 128 @106583 has 12 MA's), (143, 106649), (151, 106670), (156, 106718), (169, 106745), (174, 106763), (202, 106853),

Gene: NearlyHeadless_32 Start: 26237, Stop: 25725, Start Num: 91

Candidate Starts for NearlyHeadless_32:

(Start: 91 @26237 has 11 MA's), (153, 26006), (196, 25856), (212, 25820),

Gene: Nebs_36 Start: 27798, Stop: 27322, Start Num: 94

Candidate Starts for Nebs_36:

(Start: 94 @27798 has 37 MA's), (Start: 109 @27753 has 32 MA's), (145, 27615), (186, 27450), (190, 27438), (218, 27378), (222, 27366),

Gene: Neeharika16_40 Start: 26609, Stop: 26217, Start Num: 74

Candidate Starts for Neeharika16_40:

(Start: 74 @26609 has 55 MA's), (132, 26462), (147, 26417), (153, 26375), (158, 26348),

Gene: Newrala_40 Start: 26609, Stop: 26217, Start Num: 74

Candidate Starts for Newrala_40:

(Start: 74 @26609 has 55 MA's), (132, 26462), (147, 26417), (153, 26375), (158, 26348),

Gene: Nirvana_240 Start: 137189, Stop: 137701, Start Num: 83

Candidate Starts for Nirvana_240:

(12, 136931), (21, 137006), (Start: 83 @137189 has 67 MA's), (178, 137531), (183, 137543), (185, 137555), (191, 137573), (206, 137606),

Gene: Nishikigoi_36 Start: 26732, Stop: 27217, Start Num: 79

Candidate Starts for Nishikigoi_36:

(Start: 79 @26732 has 13 MA's), (Start: 109 @26783 has 32 MA's), (116, 26816), (Start: 119 @26831 has 1 MA's), (169, 27047), (217, 27185), (223, 27200),

Gene: Nithya_64 Start: 46208, Stop: 46717, Start Num: 62

Candidate Starts for Nithya_64:

(37, 46151), (Start: 62 @46208 has 16 MA's), (Start: 68 @46217 has 21 MA's), (Start: 119 @46349 has 1 MA's), (137, 46415), (142, 46442), (154, 46505), (168, 46550), (194, 46643), (223, 46703), (228, 46709),

Gene: NoPickles_64 Start: 45739, Stop: 46170, Start Num: 103

Candidate Starts for NoPickles_64:

(Start: 55 @45655 has 10 MA's), (103, 45739), (Start: 106 @45745 has 2 MA's), (Start: 119 @45805 has 1 MA's), (124, 45826), (133, 45862), (142, 45898), (158, 45982), (190, 46090), (213, 46138), (215, 46141), (224, 46162),

Gene: Noella_35 Start: 27813, Stop: 27382, Start Num: 85

Candidate Starts for Noella_35:

(Start: 85 @27813 has 100 MA's), (Start: 88 @27810 has 11 MA's), (Start: 109 @27765 has 32 MA's), (145, 27627), (190, 27450),

Gene: NootNoot_214 Start: 107088, Stop: 107390, Start Num: 125

Candidate Starts for NootNoot_214:

(Start: 122 @107076 has 8 MA's), (Start: 125 @107088 has 15 MA's), (Start: 128 @107100 has 12 MA's), (143, 107166), (151, 107187), (156, 107235), (174, 107280), (202, 107370),

Gene: Norbert_34 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for Norbert_34:

(Start: 85 @27812 has 100 MA's), (Start: 88 @27809 has 11 MA's), (Start: 109 @27764 has 32 MA's), (145, 27626), (190, 27449),

Gene: Nyxis_35 Start: 27697, Stop: 27224, Start Num: 94

Candidate Starts for Nyxis_35:

(Start: 94 @27697 has 37 MA's), (186, 27346), (190, 27334), (218, 27274), (222, 27262),

Gene: OKCentral2016_35 Start: 27492, Stop: 26965, Start Num: 93

Candidate Starts for OKCentral2016_35:

(Start: 93 @27492 has 13 MA's), (184, 27147), (189, 27132),

Gene: Obama12_37 Start: 28102, Stop: 27662, Start Num: 94

Candidate Starts for Obama12_37:

(Start: 94 @28102 has 37 MA's), (189, 27742), (190, 27739),

Gene: Odesza_64 Start: 46216, Stop: 46686, Start Num: 82

Candidate Starts for Odesza_64:

(45, 46147), (Start: 55 @46171 has 10 MA's), (Start: 82 @46216 has 4 MA's), (103, 46255), (Start: 106 @46261 has 2 MA's), (Start: 119 @46321 has 1 MA's), (124, 46342), (133, 46378), (142, 46414), (158, 46498), (190, 46606), (196, 46621), (213, 46654), (215, 46657), (224, 46678),

Gene: OhMyWard_63 Start: 47880, Stop: 48323, Start Num: 68

Candidate Starts for OhMyWard_63:

(37, 47814), (Start: 62 @47871 has 16 MA's), (Start: 68 @47880 has 21 MA's), (Start: 119 @48009 has 1 MA's), (137, 48075), (142, 48102), (168, 48210), (182, 48264),

Gene: Ohfah_36 Start: 27798, Stop: 27322, Start Num: 94

Candidate Starts for Ohfah_36:

(Start: 94 @27798 has 37 MA's), (Start: 109 @27753 has 32 MA's), (145, 27615), (186, 27450), (190, 27438), (218, 27378), (222, 27366),

Gene: OlanP_40 Start: 28582, Stop: 28199, Start Num: 85

Candidate Starts for OlanP_40:

(Start: 68 @28609 has 21 MA's), (Start: 85 @28582 has 100 MA's), (Start: 109 @28537 has 32 MA's), (152, 28366), (153, 28354),

Gene: OlgasClover_65 Start: 47388, Stop: 47843, Start Num: 62

Candidate Starts for OlgasClover_65:

(Start: 62 @47388 has 16 MA's), (Start: 68 @47397 has 21 MA's), (Start: 119 @47529 has 1 MA's), (142, 47622), (168, 47730), (181, 47781),

Gene: Olicious_54 Start: 29438, Stop: 29022, Start Num: 93

Candidate Starts for Olicious_54:

(66, 29480), (Start: 93 @29438 has 13 MA's), (Start: 119 @29351 has 1 MA's), (129, 29312), (142, 29261), (147, 29246), (149, 29240),

Gene: Oliynyk_35 Start: 26042, Stop: 26530, Start Num: 73

Candidate Starts for Oliynyk_35:

(27, 25937), (44, 25994), (Start: 73 @26042 has 36 MA's), (108, 26114), (Start: 117 @26159 has 2 MA's), (142, 26261), (174, 26378), (217, 26498), (231, 26525),

Gene: Ollie_41 Start: 28447, Stop: 28064, Start Num: 85

Candidate Starts for Ollie_41:

(Start: 68 @28474 has 21 MA's), (Start: 85 @28447 has 100 MA's), (Start: 109 @28402 has 32 MA's), (152, 28231), (153, 28219),

Gene: Omar_37 Start: 26978, Stop: 27451, Start Num: 83

Candidate Starts for Omar_37:

(Start: 83 @26978 has 67 MA's), (Start: 112 @27032 has 2 MA's), (116, 27056), (Start: 117 @27065 has 2 MA's), (Start: 119 @27071 has 1 MA's), (217, 27419), (223, 27434),

Gene: OneUp_130 Start: 77814, Stop: 78209, Start Num: 85

Candidate Starts for OneUp_130:

(Start: 51 @77748 has 1 MA's), (Start: 85 @77814 has 100 MA's), (131, 77958), (199, 78198),

Gene: Ozzie_34 Start: 25668, Stop: 26156, Start Num: 73

Candidate Starts for Ozzie_34:

(44, 25620), (Start: 73 @25668 has 36 MA's), (108, 25740), (Start: 117 @25785 has 2 MA's), (142, 25887), (174, 26004), (217, 26124), (231, 26151),

Gene: OzzyJ_35 Start: 26047, Stop: 26535, Start Num: 73

Candidate Starts for OzzyJ_35:

(16, 25867), (22, 25903), (44, 25999), (Start: 73 @26047 has 36 MA's), (108, 26119), (116, 26155), (Start: 117 @26164 has 2 MA's), (129, 26212), (173, 26377), (174, 26383), (217, 26503), (231, 26530),

Gene: P28Green_41 Start: 28578, Stop: 28195, Start Num: 85

Candidate Starts for P28Green_41:

(Start: 68 @28605 has 21 MA's), (Start: 85 @28578 has 100 MA's), (Start: 109 @28533 has 32 MA's), (152, 28362), (153, 28350),

Gene: PGHhamlin_43 Start: 28568, Stop: 28185, Start Num: 85

Candidate Starts for PGHhamlin_43:

(Start: 68 @28595 has 21 MA's), (Start: 85 @28568 has 100 MA's), (Start: 109 @28523 has 32 MA's), (152, 28352), (153, 28340),

Gene: PHTown_71 Start: 50512, Stop: 50156, Start Num: 109

Candidate Starts for PHTown_71:

(Start: 80 @50572 has 3 MA's), (Start: 106 @50524 has 2 MA's), (Start: 109 @50512 has 32 MA's), (111, 50506), (114, 50491), (116, 50479), (158, 50293), (159, 50290), (175, 50248), (198, 50185), (203, 50173),

Gene: Pablito_34 Start: 26313, Stop: 26771, Start Num: 83

Candidate Starts for Pablito_34:

(Start: 83 @26313 has 67 MA's), (116, 26394), (129, 26451), (173, 26616), (174, 26622), (186, 26673), (217, 26739), (223, 26754),

Gene: PacManQ_213 Start: 107235, Stop: 107525, Start Num: 128

Candidate Starts for PacManQ_213:

(Start: 122 @107211 has 8 MA's), (Start: 125 @107223 has 15 MA's), (Start: 128 @107235 has 12 MA's), (143, 107301), (154, 107355), (156, 107370), (202, 107505),

Gene: Paedore_34 Start: 26900, Stop: 27385, Start Num: 79

Candidate Starts for Paedore_34:

(Start: 79 @26900 has 13 MA's), (116, 26984), (Start: 119 @26999 has 1 MA's), (217, 27353), (223, 27368),

Gene: Panamaxus_34 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for Panamaxus_34:

(Start: 85 @27812 has 100 MA's), (Start: 88 @27809 has 11 MA's), (Start: 109 @27764 has 32 MA's), (145, 27626), (190, 27449),

Gene: Paolo_37 Start: 27402, Stop: 27788, Start Num: 117

Candidate Starts for Paolo_37:

(Start: 83 @27315 has 67 MA's), (Start: 109 @27360 has 32 MA's), (Start: 112 @27369 has 2 MA's), (116, 27393), (Start: 117 @27402 has 2 MA's), (Start: 119 @27408 has 1 MA's), (142, 27504), (174, 27636), (217, 27756), (223, 27771),

Gene: Paradiddles_209 Start: 109463, Stop: 109765, Start Num: 125

Candidate Starts for Paradiddles_209:

(Start: 122 @109451 has 8 MA's), (Start: 125 @109463 has 15 MA's), (Start: 128 @109475 has 12 MA's), (143, 109541), (151, 109562), (156, 109610), (174, 109655), (202, 109745),

Gene: Pavo_36 Start: 27721, Stop: 28125, Start Num: 83

Candidate Starts for Pavo_36:

(16, 27526), (47, 27661), (Start: 83 @27721 has 67 MA's), (Start: 112 @27775 has 2 MA's), (Start: 117 @27808 has 2 MA's), (126, 27841), (189, 28102), (191, 28108),

Gene: Pawn_40 Start: 28402, Stop: 28019, Start Num: 85

Candidate Starts for Pawn_40:

(13, 28633), (Start: 68 @28429 has 21 MA's), (Start: 85 @28402 has 100 MA's), (Start: 109 @28357 has 32 MA's), (152, 28186), (153, 28174),

Gene: PeaceMeal1_34 Start: 26665, Stop: 26081, Start Num: 88

Candidate Starts for PeaceMeal1_34:

(20, 26860), (Start: 88 @26665 has 11 MA's), (189, 26305), (197, 26287),

Gene: Peebs_214 Start: 108319, Stop: 108609, Start Num: 128

Candidate Starts for Peebs_214:

(Start: 122 @108295 has 8 MA's), (Start: 125 @108307 has 15 MA's), (Start: 128 @108319 has 12 MA's), (143, 108385), (154, 108439), (156, 108454), (202, 108589),

Gene: Pembroke_41 Start: 28577, Stop: 28194, Start Num: 85

Candidate Starts for Pembroke_41:

(Start: 68 @28604 has 21 MA's), (Start: 85 @28577 has 100 MA's), (Start: 109 @28532 has 32 MA's), (152, 28361), (153, 28349),

Gene: Penny1_41 Start: 28576, Stop: 28193, Start Num: 85

Candidate Starts for Penny1_41:

(Start: 68 @28603 has 21 MA's), (Start: 85 @28576 has 100 MA's), (Start: 109 @28531 has 32 MA's), (152, 28360), (153, 28348),

Gene: Pepperwood_217 Start: 108551, Stop: 108841, Start Num: 128

Candidate Starts for Pepperwood_217:

(Start: 122 @108527 has 8 MA's), (Start: 125 @108539 has 15 MA's), (Start: 128 @108551 has 12 MA's), (143, 108617), (154, 108671), (156, 108686), (202, 108821),

Gene: Percastrophe_54 Start: 29372, Stop: 28956, Start Num: 93

Candidate Starts for Percastrophe_54:

(66, 29414), (Start: 93 @29372 has 13 MA's), (Start: 119 @29285 has 1 MA's), (143, 29189), (144, 29186), (147, 29180), (163, 29102),

Gene: Peregrin_191 Start: 101143, Stop: 101472, Start Num: 120

Candidate Starts for Peregrin_191:

(Start: 120 @101143 has 2 MA's), (Start: 125 @101167 has 15 MA's), (146, 101254), (155, 101311), (172, 101356), (180, 101395),

Gene: Perkunas_67 Start: 46556, Stop: 47071, Start Num: 55

Candidate Starts for Perkunas_67:

(10, 46325), (14, 46370), (15, 46373), (17, 46400), (23, 46439), (28, 46475), (29, 46478), (32, 46490), (38, 46508), (Start: 55 @46556 has 10 MA's), (59, 46565), (Start: 117 @46700 has 2 MA's), (118, 46703), (Start: 119 @46706 has 1 MA's), (124, 46727), (133, 46763), (147, 46814), (158, 46883), (215, 47042), (224, 47063),

Gene: Persimmon_220 Start: 107589, Stop: 107891, Start Num: 125

Candidate Starts for Persimmon_220:

(Start: 122 @107577 has 8 MA's), (Start: 125 @107589 has 15 MA's), (Start: 128 @107601 has 12 MA's), (143, 107667), (151, 107688), (156, 107736), (169, 107763), (174, 107781), (202, 107871),

Gene: Petito_67 Start: 47726, Stop: 48241, Start Num: 55

Candidate Starts for Petito_67:

(Start: 55 @47726 has 10 MA's), (59, 47735), (Start: 106 @47816 has 2 MA's), (Start: 117 @47870 has 2 MA's), (118, 47873), (Start: 119 @47876 has 1 MA's), (124, 47897), (133, 47933), (158, 48053), (174, 48098), (213, 48209), (215, 48212), (224, 48233),

Gene: PetterN_34 Start: 26587, Stop: 26075, Start Num: 74

Candidate Starts for PetterN_34:

(Start: 74 @26587 has 55 MA's),

Gene: Phantastic_36 Start: 27584, Stop: 27198, Start Num: 85

Candidate Starts for Phantastic_36:

(Start: 85 @27584 has 100 MA's),

Gene: Phelipe_36 Start: 27804, Stop: 27325, Start Num: 94

Candidate Starts for Phelipe_36:

(Start: 94 @27804 has 37 MA's), (186, 27453), (190, 27441), (218, 27381), (222, 27369),

Gene: Phendrix_177 Start: 96622, Stop: 96095, Start Num: 67

Candidate Starts for Phendrix_177:

(Start: 67 @96622 has 2 MA's), (71, 96616), (Start: 106 @96547 has 2 MA's), (123, 96469), (168, 96298), (174, 96277), (190, 96214), (208, 96172), (216, 96160), (233, 96118),

Gene: Phepper_65 Start: 46347, Stop: 46808, Start Num: 62

Candidate Starts for Phepper_65:

(37, 46290), (Start: 62 @46347 has 16 MA's), (Start: 68 @46356 has 21 MA's), (Start: 119 @46488 has 1 MA's), (142, 46581), (154, 46644), (168, 46689),

Gene: Pherobrine_66 Start: 47919, Stop: 48428, Start Num: 62

Candidate Starts for Pherobrine_66:

(40, 47871), (48, 47886), (Start: 62 @47919 has 16 MA's), (Start: 68 @47928 has 21 MA's), (Start: 119 @48057 has 1 MA's), (124, 48078), (152, 48195), (158, 48234), (189, 48339), (209, 48384),

Gene: Phettuccine_34 Start: 25684, Stop: 26172, Start Num: 73

Candidate Starts for Phettuccine_34:

(44, 25636), (Start: 73 @25684 has 36 MA's), (108, 25756), (Start: 117 @25801 has 2 MA's), (142, 25903), (174, 26020), (217, 26140), (231, 26167),

Gene: Phillis_32 Start: 26263, Stop: 25784, Start Num: 91

Candidate Starts for Phillis_32:

(Start: 91 @26263 has 11 MA's), (153, 26032), (196, 25882), (229, 25816), (232, 25804),

Gene: PhinkBoden_144 Start: 79554, Stop: 79946, Start Num: 85

Candidate Starts for PhinkBoden_144:

(Start: 85 @79554 has 100 MA's), (131, 79695), (190, 79917), (199, 79935),

Gene: PhishRPhriends_39 Start: 27579, Stop: 27196, Start Num: 85

Candidate Starts for PhishRPhriends_39:

(13, 27807), (Start: 68 @27606 has 21 MA's), (Start: 85 @27579 has 100 MA's), (Start: 109 @27534 has 32 MA's), (152, 27363), (153, 27351),

Gene: Phlorence_32 Start: 27081, Stop: 26572, Start Num: 74

Candidate Starts for Phlorence_32:

(Start: 74 @27081 has 55 MA's),

Gene: Phoebe_41 Start: 28568, Stop: 28185, Start Num: 85

Candidate Starts for Phoebe_41:

(Start: 68 @28595 has 21 MA's), (Start: 85 @28568 has 100 MA's), (Start: 109 @28523 has 32 MA's), (152, 28352), (153, 28340),

Gene: Phontbonne_35 Start: 27698, Stop: 27225, Start Num: 94

Candidate Starts for Phontbonne_35:

(Start: 94 @27698 has 37 MA's), (186, 27347), (190, 27335), (218, 27275), (222, 27263),

Gene: Phoxy_40 Start: 28571, Stop: 28188, Start Num: 85

Candidate Starts for Phoxy_40:

(Start: 68 @28598 has 21 MA's), (Start: 85 @28571 has 100 MA's), (103, 28544), (Start: 109 @28526 has 32 MA's), (152, 28355), (153, 28343),

Gene: Phranny_41 Start: 28387, Stop: 28004, Start Num: 85

Candidate Starts for Phranny_41:

(13, 28615), (Start: 68 @28414 has 21 MA's), (Start: 85 @28387 has 100 MA's), (Start: 109 @28342 has 32 MA's), (152, 28171), (153, 28159),

Gene: PickleBack_32 Start: 26795, Stop: 26286, Start Num: 74

Candidate Starts for PickleBack_32:

(Start: 74 @26795 has 55 MA's),

Gene: PinkiePie_217 Start: 108231, Stop: 108545, Start Num: 122

Candidate Starts for PinkiePie_217:

(Start: 122 @108231 has 8 MA's), (Start: 125 @108243 has 15 MA's), (Start: 128 @108255 has 12 MA's), (143, 108321), (151, 108342), (156, 108390), (169, 108417), (174, 108435), (202, 108525),

Gene: Pistachio_37 Start: 27346, Stop: 26960, Start Num: 85

Candidate Starts for Pistachio_37:

(Start: 85 @27346 has 100 MA's), (150, 27148),

Gene: Pocahontas_35 Start: 27806, Stop: 27378, Start Num: 88

Candidate Starts for Pocahontas_35:

(Start: 85 @27809 has 100 MA's), (Start: 88 @27806 has 11 MA's), (Start: 109 @27761 has 32 MA's), (145, 27623), (190, 27446),

Gene: Polymorphads_36 Start: 27797, Stop: 27321, Start Num: 94

Candidate Starts for Polymorphads_36:

(Start: 94 @27797 has 37 MA's), (Start: 109 @27752 has 32 MA's), (145, 27614), (186, 27449), (190, 27437), (218, 27377), (222, 27365),

Gene: Pomar16_40 Start: 28024, Stop: 27638, Start Num: 83

Candidate Starts for Pomar16_40:

(Start: 83 @28024 has 67 MA's), (153, 27793),

Gene: Ponzi_9 Start: 7221, Stop: 6748, Start Num: 51

Candidate Starts for Ponzi_9:

(5, 7536), (11, 7422), (Start: 51 @7221 has 1 MA's), (124, 7035), (145, 6957), (166, 6879), (190, 6792),

Gene: Poompha_34 Start: 26663, Stop: 26079, Start Num: 88

Candidate Starts for Poompha_34:

(20, 26858), (Start: 88 @26663 has 11 MA's), (189, 26303), (197, 26285),

Gene: Popcicle_35 Start: 27806, Stop: 27378, Start Num: 88

Candidate Starts for Popcicle_35:

(Start: 85 @27809 has 100 MA's), (Start: 88 @27806 has 11 MA's), (Start: 109 @27761 has 32 MA's), (145, 27623), (190, 27446),

Gene: PotatoSplit_42 Start: 28576, Stop: 28193, Start Num: 85

Candidate Starts for PotatoSplit_42:

(Start: 68 @28603 has 21 MA's), (Start: 85 @28576 has 100 MA's), (Start: 109 @28531 has 32 MA's), (152, 28360), (153, 28348),

Gene: Priamo_41 Start: 26652, Stop: 26263, Start Num: 76
Candidate Starts for Priamo_41:
(Start: 76 @26652 has 18 MA's), (132, 26508), (147, 26463), (153, 26421), (158, 26394),

Gene: Prinashe11_33 Start: 26949, Stop: 26440, Start Num: 74
Candidate Starts for Prinashe11_33:
(Start: 74 @26949 has 55 MA's),

Gene: Provolone_36 Start: 27103, Stop: 27507, Start Num: 83
Candidate Starts for Provolone_36:
(16, 26908), (47, 27043), (Start: 83 @27103 has 67 MA's), (Start: 112 @27157 has 2 MA's), (Start: 117 @27190 has 2 MA's), (126, 27223), (189, 27484), (191, 27490),

Gene: Puginator_37 Start: 27390, Stop: 27809, Start Num: 112
Candidate Starts for Puginator_37:
(Start: 83 @27336 has 67 MA's), (Start: 109 @27381 has 32 MA's), (Start: 112 @27390 has 2 MA's), (116, 27414), (Start: 117 @27423 has 2 MA's), (Start: 119 @27429 has 1 MA's), (142, 27525), (174, 27657), (217, 27777), (223, 27792),

Gene: Pumbaa_35 Start: 27749, Stop: 27276, Start Num: 94
Candidate Starts for Pumbaa_35:
(Start: 94 @27749 has 37 MA's), (186, 27398), (190, 27386), (218, 27326), (222, 27314),

Gene: PumpkinSpice_234 Start: 109573, Stop: 109941, Start Num: 109
Candidate Starts for PumpkinSpice_234:
(Start: 109 @109573 has 32 MA's), (Start: 122 @109633 has 8 MA's), (Start: 128 @109657 has 12 MA's), (143, 109723), (151, 109744), (154, 109777), (156, 109792), (202, 109927),

Gene: Puppy_37 Start: 27416, Stop: 27030, Start Num: 85
Candidate Starts for Puppy_37:
(Start: 85 @27416 has 100 MA's), (150, 27218),

Gene: PurpleHaze_40 Start: 28400, Stop: 28017, Start Num: 85
Candidate Starts for PurpleHaze_40:
(13, 28628), (Start: 68 @28427 has 21 MA's), (Start: 85 @28400 has 100 MA's), (Start: 109 @28355 has 32 MA's), (152, 28184), (153, 28172),

Gene: Quantum_211 Start: 129324, Stop: 129833, Start Num: 83
Candidate Starts for Quantum_211:
(21, 129141), (Start: 83 @129324 has 67 MA's), (138, 129498), (171, 129615), (207, 129732), (236, 129798), (237, 129828),

Gene: Quaran19_231 Start: 109014, Stop: 109382, Start Num: 109
Candidate Starts for Quaran19_231:
(Start: 109 @109014 has 32 MA's), (Start: 122 @109074 has 8 MA's), (Start: 128 @109098 has 12 MA's), (143, 109164), (151, 109185), (154, 109218), (156, 109233), (202, 109368),

Gene: QuinnKiro_34 Start: 27812, Stop: 27381, Start Num: 85
Candidate Starts for QuinnKiro_34:
(Start: 85 @27812 has 100 MA's), (Start: 88 @27809 has 11 MA's), (Start: 109 @27764 has 32 MA's), (145, 27626), (190, 27449),

Gene: R4_35 Start: 27055, Stop: 27540, Start Num: 79

Candidate Starts for R4_35:

(Start: 79 @27055 has 13 MA's), (116, 27139), (Start: 119 @27154 has 1 MA's), (132, 27211), (160, 27343), (173, 27382), (217, 27508), (223, 27523),

Gene: Rana_35 Start: 26571, Stop: 27047, Start Num: 83

Candidate Starts for Rana_35:

(16, 26373), (22, 26409), (44, 26505), (Start: 79 @26565 has 13 MA's), (Start: 83 @26571 has 67 MA's), (116, 26649), (Start: 119 @26664 has 1 MA's), (162, 26859), (217, 27015), (223, 27030),

Gene: Reba_41 Start: 28060, Stop: 27677, Start Num: 85

Candidate Starts for Reba_41:

(13, 28288), (Start: 68 @28087 has 21 MA's), (Start: 85 @28060 has 100 MA's), (Start: 109 @28015 has 32 MA's), (152, 27844), (153, 27832),

Gene: Rebeuca_37 Start: 28182, Stop: 27643, Start Num: 78

Candidate Starts for Rebeuca_37:

(Start: 78 @28182 has 6 MA's), (184, 27825), (189, 27810),

Gene: RedBear_35 Start: 26236, Stop: 26655, Start Num: 83

Candidate Starts for RedBear_35:

(Start: 83 @26236 has 67 MA's), (108, 26281), (Start: 109 @26284 has 32 MA's), (Start: 117 @26326 has 2 MA's), (130, 26377), (132, 26386), (142, 26428), (165, 26530),

Gene: RemusLoopin_46 Start: 34126, Stop: 34542, Start Num: 83

Candidate Starts for RemusLoopin_46:

(Start: 83 @34126 has 67 MA's), (116, 34216), (Start: 119 @34231 has 1 MA's), (123, 34249),

Gene: ResDef_35 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for ResDef_35:

(Start: 85 @27812 has 100 MA's), (Start: 88 @27809 has 11 MA's), (Start: 109 @27764 has 32 MA's), (145, 27626), (190, 27449),

Gene: RhynO_36 Start: 27673, Stop: 27197, Start Num: 76

Candidate Starts for RhynO_36:

(Start: 55 @27709 has 10 MA's), (Start: 76 @27673 has 18 MA's), (Start: 109 @27628 has 32 MA's), (116, 27595), (Start: 117 @27586 has 2 MA's), (118, 27583), (184, 27331), (189, 27316), (197, 27298),

Gene: Rickmore_61 Start: 44723, Stop: 45232, Start Num: 62

Candidate Starts for Rickmore_61:

(Start: 35 @44660 has 1 MA's), (47, 44693), (Start: 62 @44723 has 16 MA's), (Start: 119 @44864 has 1 MA's), (137, 44930), (142, 44957), (154, 45020), (168, 45065), (181, 45116), (194, 45158), (199, 45167), (222, 45218), (226, 45224),

Gene: Rifter_40 Start: 26392, Stop: 26003, Start Num: 74

Candidate Starts for Rifter_40:

(Start: 74 @26392 has 55 MA's), (153, 26161), (158, 26134), (189, 26029),

Gene: Rikishi_239 Start: 109295, Stop: 109663, Start Num: 109

Candidate Starts for Rikishi_239:

(Start: 109 @109295 has 32 MA's), (Start: 122 @109355 has 8 MA's), (Start: 128 @109379 has 12 MA's), (143, 109445), (151, 109466), (154, 109499), (156, 109514), (202, 109649),

Gene: Riptide_223 Start: 107283, Stop: 107573, Start Num: 128

Candidate Starts for Riptide_223:

(Start: 122 @107259 has 8 MA's), (Start: 125 @107271 has 15 MA's), (Start: 128 @107283 has 12 MA's), (136, 107310), (143, 107349), (151, 107370), (154, 107403), (156, 107418), (196, 107541), (202, 107553),

Gene: Roary_32 Start: 26183, Stop: 25671, Start Num: 91

Candidate Starts for Roary_32:

(Start: 91 @26183 has 11 MA's), (153, 25952), (196, 25802), (212, 25766),

Gene: Rockstar_36 Start: 27560, Stop: 27174, Start Num: 85

Candidate Starts for Rockstar_36:

(Start: 85 @27560 has 100 MA's),

Gene: Roksolana_41 Start: 26646, Stop: 26254, Start Num: 74

Candidate Starts for Roksolana_41:

(Start: 74 @26646 has 55 MA's), (132, 26499), (147, 26454), (153, 26412), (158, 26385),

Gene: Romero_54 Start: 29431, Stop: 29015, Start Num: 93

Candidate Starts for Romero_54:

(66, 29473), (Start: 93 @29431 has 13 MA's), (Start: 119 @29344 has 1 MA's), (129, 29305), (142, 29254), (147, 29239), (149, 29233),

Gene: Roney_65 Start: 46382, Stop: 46852, Start Num: 82

Candidate Starts for Roney_65:

(45, 46313), (Start: 55 @46337 has 10 MA's), (Start: 82 @46382 has 4 MA's), (103, 46421), (Start: 106 @46427 has 2 MA's), (Start: 119 @46487 has 1 MA's), (124, 46508), (133, 46544), (142, 46580), (158, 46664), (190, 46772), (196, 46787), (213, 46820), (215, 46823), (224, 46844),

Gene: Rooney_71 Start: 50674, Stop: 50294, Start Num: 100

Candidate Starts for Rooney_71:

(Start: 80 @50710 has 3 MA's), (Start: 100 @50674 has 2 MA's), (Start: 106 @50662 has 2 MA's), (Start: 109 @50650 has 32 MA's), (111, 50644), (114, 50629), (Start: 117 @50608 has 2 MA's), (154, 50452), (159, 50428), (174, 50389), (175, 50386), (193, 50332), (198, 50323),

Gene: RosePharie_55 Start: 29769, Stop: 29353, Start Num: 95

Candidate Starts for RosePharie_55:

(Start: 84 @29781 has 1 MA's), (Start: 95 @29769 has 1 MA's), (102, 29748), (Start: 119 @29682 has 1 MA's), (166, 29490),

Gene: Rowa_49 Start: 35076, Stop: 35489, Start Num: 80

Candidate Starts for Rowa_49:

(Start: 80 @35076 has 3 MA's), (Start: 117 @35175 has 2 MA's), (123, 35199), (168, 35373), (189, 35454),

Gene: Rowdy_39 Start: 27581, Stop: 27105, Start Num: 76

Candidate Starts for Rowdy_39:

(Start: 55 @27617 has 10 MA's), (Start: 76 @27581 has 18 MA's), (Start: 109 @27536 has 32 MA's), (116, 27503), (Start: 117 @27494 has 2 MA's), (118, 27491), (184, 27239), (189, 27224), (197, 27206),

Gene: Rummer_40 Start: 28571, Stop: 28188, Start Num: 85

Candidate Starts for Rummer_40:

(Start: 68 @28598 has 21 MA's), (Start: 85 @28571 has 100 MA's), (103, 28544), (Start: 109 @28526 has 32 MA's), (152, 28355), (153, 28343),

Gene: Runhaar_64 Start: 46158, Stop: 46613, Start Num: 62

Candidate Starts for Runhaar_64:

(37, 46101), (50, 46137), (Start: 62 @46158 has 16 MA's), (Start: 68 @46167 has 21 MA's), (Start: 119 @46299 has 1 MA's), (137, 46365), (142, 46392), (147, 46407), (168, 46500), (181, 46551),

Gene: Rusticus_35 Start: 26042, Stop: 26530, Start Num: 73

Candidate Starts for Rusticus_35:

(27, 25937), (44, 25994), (Start: 73 @26042 has 36 MA's), (108, 26114), (Start: 117 @26159 has 2 MA's), (142, 26261), (174, 26378), (217, 26498), (231, 26525),

Gene: Sabia_41 Start: 28596, Stop: 28186, Start Num: 68

Candidate Starts for Sabia_41:

(Start: 68 @28596 has 21 MA's), (Start: 85 @28569 has 100 MA's), (Start: 109 @28524 has 32 MA's), (152, 28353), (153, 28341),

Gene: Sabinator_40 Start: 28574, Stop: 28191, Start Num: 85

Candidate Starts for Sabinator_40:

(Start: 68 @28601 has 21 MA's), (Start: 85 @28574 has 100 MA's), (Start: 109 @28529 has 32 MA's), (152, 28358), (153, 28346),

Gene: Saftant_35 Start: 27670, Stop: 28074, Start Num: 83

Candidate Starts for Saftant_35:

(Start: 83 @27670 has 67 MA's), (Start: 112 @27724 has 2 MA's), (Start: 117 @27757 has 2 MA's), (126, 27790), (174, 27991), (189, 28051), (191, 28057),

Gene: SaltySpittoon_231 Start: 108556, Stop: 108924, Start Num: 109

Candidate Starts for SaltySpittoon_231:

(Start: 109 @108556 has 32 MA's), (Start: 122 @108616 has 8 MA's), (Start: 128 @108640 has 12 MA's), (143, 108706), (151, 108727), (154, 108760), (156, 108775), (202, 108910),

Gene: Samisti12_221 Start: 110133, Stop: 110435, Start Num: 125

Candidate Starts for Samisti12_221:

(Start: 122 @110121 has 8 MA's), (Start: 125 @110133 has 15 MA's), (Start: 128 @110145 has 12 MA's), (143, 110211), (154, 110265), (156, 110280), (202, 110415),

Gene: Samora_48 Start: 34458, Stop: 34883, Start Num: 83

Candidate Starts for Samora_48:

(Start: 83 @34458 has 67 MA's), (Start: 94 @34470 has 37 MA's), (116, 34548), (Start: 119 @34563 has 1 MA's), (132, 34617), (190, 34839), (195, 34851), (201, 34863), (205, 34875),

Gene: SarahRose_34 Start: 26055, Stop: 26543, Start Num: 73

Candidate Starts for SarahRose_34:

(Start: 73 @26055 has 36 MA's), (108, 26127), (116, 26163), (Start: 117 @26172 has 2 MA's), (129, 26220), (173, 26385), (174, 26391), (217, 26511), (231, 26538),

Gene: Satis_212 Start: 129667, Stop: 130176, Start Num: 83

Candidate Starts for Satis_212:

(21, 129484), (Start: 83 @129667 has 67 MA's), (138, 129841), (171, 129958), (207, 130075), (236, 130141), (237, 130171),

Gene: SaturnRing_36 Start: 27799, Stop: 27413, Start Num: 85
Candidate Starts for SaturnRing_36:
(Start: 85 @27799 has 100 MA's), (150, 27601),

Gene: Scheme_220 Start: 109778, Stop: 110080, Start Num: 125
Candidate Starts for Scheme_220:
(Start: 122 @109766 has 8 MA's), (Start: 125 @109778 has 15 MA's), (Start: 128 @109790 has 12 MA's), (143, 109856), (154, 109910), (156, 109925), (202, 110060),

Gene: Schwartz33_66 Start: 46646, Stop: 47134, Start Num: 64
Candidate Starts for Schwartz33_66:
(Start: 60 @46640 has 2 MA's), (Start: 64 @46646 has 2 MA's), (Start: 106 @46724 has 2 MA's), (Start: 119 @46784 has 1 MA's), (152, 46922), (158, 46961),

Gene: Scorpia_34 Start: 26664, Stop: 26152, Start Num: 74
Candidate Starts for Scorpia_34:
(Start: 74 @26664 has 55 MA's),

Gene: Scout_36 Start: 27106, Stop: 26720, Start Num: 85
Candidate Starts for Scout_36:
(Start: 85 @27106 has 100 MA's), (150, 26908),

Gene: Sebastisaurus_45 Start: 34670, Stop: 34981, Start Num: 119
Candidate Starts for Sebastisaurus_45:
(Start: 83 @34565 has 67 MA's), (116, 34655), (Start: 119 @34670 has 1 MA's),

Gene: Secretariat_64 Start: 45608, Stop: 46093, Start Num: 64
Candidate Starts for Secretariat_64:
(18, 45440), (24, 45479), (26, 45497), (49, 45575), (52, 45584), (Start: 64 @45608 has 2 MA's), (Start: 106 @45683 has 2 MA's), (Start: 119 @45743 has 1 MA's), (133, 45800), (152, 45881), (157, 45917), (158, 45920),

Gene: Severus_34 Start: 26663, Stop: 26079, Start Num: 88
Candidate Starts for Severus_34:
(20, 26858), (Start: 88 @26663 has 11 MA's), (189, 26303), (197, 26285), (213, 26249),

Gene: ShaggyRogers_67 Start: 46127, Stop: 46597, Start Num: 62
Candidate Starts for ShaggyRogers_67:
(Start: 62 @46127 has 16 MA's), (Start: 68 @46136 has 21 MA's), (Start: 119 @46265 has 1 MA's), (142, 46358), (168, 46466), (194, 46559),

Gene: ShakeNBake_71 Start: 50539, Stop: 50183, Start Num: 109
Candidate Starts for ShakeNBake_71:
(Start: 80 @50599 has 3 MA's), (Start: 106 @50551 has 2 MA's), (Start: 109 @50539 has 32 MA's), (111, 50533), (114, 50518), (116, 50506), (158, 50320), (159, 50317), (175, 50275), (198, 50212), (203, 50200),

Gene: Shapes_39 Start: 27581, Stop: 27105, Start Num: 76
Candidate Starts for Shapes_39:
(Start: 55 @27617 has 10 MA's), (Start: 76 @27581 has 18 MA's), (Start: 109 @27536 has 32 MA's), (116, 27503), (Start: 117 @27494 has 2 MA's), (118, 27491), (184, 27239), (189, 27224), (197, 27206),

Gene: Shawty_45 Start: 33157, Stop: 33510, Start Num: 109

Candidate Starts for Shawty_45:

(Start: 62 @33064 has 16 MA's), (70, 33076), (Start: 81 @33097 has 5 MA's), (Start: 109 @33157 has 32 MA's), (Start: 119 @33205 has 1 MA's), (190, 33481), (201, 33502),

Gene: Sheen_36 Start: 29802, Stop: 29311, Start Num: 94

Candidate Starts for Sheen_36:

(31, 29925), (33, 29916), (70, 29838), (Start: 94 @29802 has 37 MA's), (147, 29616), (158, 29547), (189, 29442), (190, 29439), (196, 29424), (228, 29361), (230, 29358),

Gene: SheldonCooper_37 Start: 28101, Stop: 27661, Start Num: 94

Candidate Starts for SheldonCooper_37:

(Start: 94 @28101 has 37 MA's), (189, 27741), (190, 27738),

Gene: Shuckle_218 Start: 108512, Stop: 108805, Start Num: 128

Candidate Starts for Shuckle_218:

(Start: 122 @108488 has 8 MA's), (Start: 125 @108500 has 15 MA's), (Start: 128 @108512 has 12 MA's), (143, 108578), (154, 108632), (156, 108647), (202, 108782), (211, 108800),

Gene: Sixama_175 Start: 101856, Stop: 101392, Start Num: 106

Candidate Starts for Sixama_175:

(Start: 86 @101895 has 3 MA's), (Start: 106 @101856 has 2 MA's), (159, 101619), (168, 101598), (186, 101526), (188, 101520), (194, 101505), (216, 101457), (231, 101427),

Gene: Smeadley_32 Start: 26306, Stop: 25698, Start Num: 91

Candidate Starts for Smeadley_32:

(Start: 91 @26306 has 11 MA's), (186, 25952), (212, 25889), (234, 25838), (235, 25832),

Gene: SmellyB_40 Start: 26616, Stop: 26224, Start Num: 74

Candidate Starts for SmellyB_40:

(Start: 74 @26616 has 55 MA's), (132, 26469), (147, 26424), (153, 26382), (158, 26355),

Gene: Smoothie_147 Start: 79538, Stop: 79933, Start Num: 85

Candidate Starts for Smoothie_147:

(1, 78968), (2, 79082), (3, 79109), (4, 79139), (6, 79232), (16, 79331), (25, 79382), (26, 79394), (39, 79445), (46, 79466), (52, 79481), (Start: 85 @79538 has 100 MA's), (131, 79682), (190, 79904), (199, 79922),

Gene: Snorlax_34 Start: 26059, Stop: 26547, Start Num: 73

Candidate Starts for Snorlax_34:

(16, 25879), (22, 25915), (44, 26011), (Start: 73 @26059 has 36 MA's), (108, 26131), (116, 26167), (Start: 117 @26176 has 2 MA's), (129, 26224), (173, 26389), (174, 26395), (217, 26515), (231, 26542),

Gene: SoYo_41 Start: 28514, Stop: 28104, Start Num: 68

Candidate Starts for SoYo_41:

(Start: 68 @28514 has 21 MA's), (Start: 85 @28487 has 100 MA's), (Start: 109 @28442 has 32 MA's), (152, 28271), (153, 28259),

Gene: SoilDragon_40 Start: 28021, Stop: 27638, Start Num: 85

Candidate Starts for SoilDragon_40:

(Start: 68 @28048 has 21 MA's), (Start: 85 @28021 has 100 MA's), (Start: 109 @27976 has 32 MA's), (152, 27805), (153, 27793),

Gene: Sollertia_229 Start: 109154, Stop: 109522, Start Num: 109

Candidate Starts for Sollertia_229:

(98, 109121), (Start: 104 @109139 has 1 MA's), (Start: 109 @109154 has 32 MA's), (Start: 122 @109214 has 8 MA's), (Start: 128 @109238 has 12 MA's), (134, 109259), (143, 109304), (154, 109358), (156, 109373),

Gene: Soshari_42 Start: 28570, Stop: 28187, Start Num: 85

Candidate Starts for Soshari_42:

(Start: 68 @28597 has 21 MA's), (Start: 85 @28570 has 100 MA's), (103, 28543), (Start: 109 @28525 has 32 MA's), (152, 28354), (153, 28342),

Gene: South40_34 Start: 26236, Stop: 26655, Start Num: 83

Candidate Starts for South40_34:

(Start: 83 @26236 has 67 MA's), (108, 26281), (Start: 109 @26284 has 32 MA's), (Start: 117 @26326 has 2 MA's), (130, 26377), (132, 26386), (142, 26428), (165, 26530),

Gene: Sparxx_36 Start: 27799, Stop: 27323, Start Num: 94

Candidate Starts for Sparxx_36:

(Start: 94 @27799 has 37 MA's), (Start: 109 @27754 has 32 MA's), (145, 27616), (186, 27451), (190, 27439), (218, 27379), (222, 27367),

Gene: Speedwell_40 Start: 28980, Stop: 29384, Start Num: 83

Candidate Starts for Speedwell_40:

(Start: 83 @28980 has 67 MA's), (Start: 112 @29034 has 2 MA's), (116, 29058), (Start: 117 @29067 has 2 MA's), (130, 29118), (142, 29169), (174, 29301), (189, 29361), (191, 29367),

Gene: Spelly_236 Start: 108485, Stop: 108853, Start Num: 109

Candidate Starts for Spelly_236:

(Start: 109 @108485 has 32 MA's), (Start: 122 @108545 has 8 MA's), (Start: 128 @108569 has 12 MA's), (143, 108635), (151, 108656), (154, 108689), (156, 108704), (202, 108839),

Gene: Spike509_40 Start: 28571, Stop: 28188, Start Num: 85

Candidate Starts for Spike509_40:

(Start: 68 @28598 has 21 MA's), (Start: 85 @28571 has 100 MA's), (103, 28544), (Start: 109 @28526 has 32 MA's), (152, 28355), (153, 28343),

Gene: Spilled_238 Start: 109689, Stop: 110057, Start Num: 109

Candidate Starts for Spilled_238:

(Start: 109 @109689 has 32 MA's), (Start: 122 @109749 has 8 MA's), (Start: 128 @109773 has 12 MA's), (143, 109839), (151, 109860), (154, 109893), (156, 109908), (202, 110043),

Gene: Spooks_12 Start: 9516, Stop: 9091, Start Num: 99

Candidate Starts for Spooks_12:

(50, 9597), (54, 9585), (99, 9516), (116, 9456), (Start: 119 @9441 has 1 MA's), (130, 9396), (147, 9333), (158, 9276), (174, 9231), (189, 9171), (190, 9168), (221, 9105),

Gene: SqueakyClean_34 Start: 26829, Stop: 27302, Start Num: 83

Candidate Starts for SqueakyClean_34:

(Start: 83 @26829 has 67 MA's), (Start: 109 @26874 has 32 MA's), (Start: 112 @26883 has 2 MA's), (116, 26907), (Start: 117 @26916 has 2 MA's), (126, 26949), (157, 27099), (217, 27270), (223, 27285),

Gene: Squillium_220 Start: 108257, Stop: 108547, Start Num: 128

Candidate Starts for Squillium_220:

(Start: 122 @108233 has 8 MA's), (Start: 125 @108245 has 15 MA's), (Start: 128 @108257 has 12 MA's), (143, 108323), (151, 108344), (156, 108392), (169, 108419), (174, 108437), (202, 108527),

Gene: Stagni_41 Start: 28578, Stop: 28195, Start Num: 85

Candidate Starts for Stagni_41:

(Start: 68 @28605 has 21 MA's), (Start: 85 @28578 has 100 MA's), (Start: 109 @28533 has 32 MA's), (152, 28362), (153, 28350),

Gene: Stanimal_228 Start: 109526, Stop: 109894, Start Num: 109

Candidate Starts for Stanimal_228:

(98, 109493), (Start: 104 @109511 has 1 MA's), (Start: 109 @109526 has 32 MA's), (Start: 122 @109586 has 8 MA's), (Start: 128 @109610 has 12 MA's), (134, 109631), (143, 109676), (154, 109730), (156, 109745),

Gene: StarPlatinum_238 Start: 111486, Stop: 111854, Start Num: 109

Candidate Starts for StarPlatinum_238:

(98, 111453), (Start: 104 @111471 has 1 MA's), (Start: 109 @111486 has 32 MA's), (Start: 122 @111546 has 8 MA's), (123, 111552), (Start: 128 @111570 has 12 MA's), (143, 111636), (154, 111690), (156, 111705), (202, 111840),

Gene: StarStuff_40 Start: 27986, Stop: 27600, Start Num: 83

Candidate Starts for StarStuff_40:

(Start: 83 @27986 has 67 MA's), (153, 27755),

Gene: Starbow_228 Start: 108529, Stop: 108897, Start Num: 109

Candidate Starts for Starbow_228:

(Start: 109 @108529 has 32 MA's), (Start: 122 @108589 has 8 MA's), (Start: 128 @108613 has 12 MA's), (143, 108679), (151, 108700), (154, 108733), (156, 108748), (202, 108883),

Gene: Stasia_36 Start: 28128, Stop: 27649, Start Num: 76

Candidate Starts for Stasia_36:

(Start: 55 @28158 has 10 MA's), (Start: 76 @28128 has 18 MA's), (189, 27768), (197, 27750),

Gene: StepMih_41 Start: 28569, Stop: 28186, Start Num: 85

Candidate Starts for StepMih_41:

(Start: 68 @28596 has 21 MA's), (Start: 85 @28569 has 100 MA's), (Start: 109 @28524 has 32 MA's), (152, 28353), (153, 28341),

Gene: Stephig9_32 Start: 26211, Stop: 25699, Start Num: 91

Candidate Starts for Stephig9_32:

(Start: 91 @26211 has 11 MA's), (153, 25980), (196, 25830), (212, 25794),

Gene: Stink_36 Start: 28296, Stop: 27874, Start Num: 94

Candidate Starts for Stink_36:

(Start: 94 @28296 has 37 MA's), (Start: 109 @28251 has 32 MA's),

Gene: Success_13 Start: 8706, Stop: 8326, Start Num: 109

Candidate Starts for Success_13:

(50, 8814), (54, 8802), (Start: 109 @8706 has 32 MA's), (Start: 125 @8634 has 15 MA's), (127, 8625), (157, 8496), (179, 8421), (189, 8388), (190, 8385), (215, 8337),

Gene: Sujidade_35 Start: 26794, Stop: 27273, Start Num: 81

Candidate Starts for Sujidade_35:

(Start: 81 @26794 has 5 MA's), (116, 26875), (Start: 119 @26890 has 1 MA's), (162, 27085), (217, 27241), (223, 27256),

Gene: SunsetPointe_34 Start: 25675, Stop: 26163, Start Num: 73

Candidate Starts for SunsetPointe_34:

(44, 25627), (Start: 73 @25675 has 36 MA's), (108, 25747), (Start: 117 @25792 has 2 MA's), (142, 25894), (174, 26011), (217, 26131), (231, 26158),

Gene: SuperAwesome_40 Start: 26609, Stop: 26217, Start Num: 74

Candidate Starts for SuperAwesome_40:

(Start: 74 @26609 has 55 MA's), (132, 26462), (147, 26417), (153, 26375), (158, 26348),

Gene: Superstar_38 Start: 27847, Stop: 28332, Start Num: 79

Candidate Starts for Superstar_38:

(Start: 79 @27847 has 13 MA's), (116, 27931), (Start: 119 @27946 has 1 MA's), (160, 28135), (217, 28300), (223, 28315),

Gene: Sushi23_217 Start: 109173, Stop: 109475, Start Num: 125

Candidate Starts for Sushi23_217:

(Start: 122 @109161 has 8 MA's), (Start: 125 @109173 has 15 MA's), (Start: 128 @109185 has 12 MA's), (143, 109251), (154, 109305), (156, 109320), (202, 109455),

Gene: Swirley_32 Start: 26951, Stop: 26445, Start Num: 77

Candidate Starts for Swirley_32:

(Start: 77 @26951 has 5 MA's),

Gene: SydNat_32 Start: 27230, Stop: 26724, Start Num: 77

Candidate Starts for SydNat_32:

(Start: 77 @27230 has 5 MA's),

Gene: TG1_40 Start: 31978, Stop: 32517, Start Num: 92

Candidate Starts for TG1_40:

(75, 31954), (Start: 92 @31978 has 1 MA's), (103, 32005), (Start: 109 @32023 has 32 MA's), (Start: 117 @32065 has 2 MA's), (Start: 119 @32071 has 1 MA's), (123, 32089), (204, 32380),

Gene: TMaxx_46 Start: 30765, Stop: 30397, Start Num: 117

Candidate Starts for TMaxx_46:

(Start: 82 @30861 has 4 MA's), (103, 30822), (Start: 109 @30804 has 32 MA's), (Start: 117 @30765 has 2 MA's), (176, 30534),

Gene: TNguyen7_36 Start: 27763, Stop: 27377, Start Num: 85

Candidate Starts for TNguyen7_36:

(Start: 85 @27763 has 100 MA's), (150, 27565),

Gene: TagePighther_36 Start: 26059, Stop: 26547, Start Num: 73

Candidate Starts for TagePighther_36:

(16, 25879), (22, 25915), (44, 26011), (Start: 73 @26059 has 36 MA's), (108, 26131), (116, 26167), (Start: 117 @26176 has 2 MA's), (129, 26224), (173, 26389), (174, 26395), (217, 26515), (231, 26542),

Gene: Talon44_68 Start: 46590, Stop: 47105, Start Num: 55

Candidate Starts for Talon44_68:

(10, 46359), (14, 46404), (15, 46407), (17, 46434), (23, 46473), (28, 46509), (29, 46512), (32, 46524), (38, 46542), (Start: 55 @46590 has 10 MA's), (59, 46599), (Start: 117 @46734 has 2 MA's), (118,

46737), (Start: 119 @46740 has 1 MA's), (124, 46761), (133, 46797), (147, 46848), (158, 46917), (215, 47076), (224, 47097),

Gene: Tanis_65 Start: 46157, Stop: 46672, Start Num: 55

Candidate Starts for Tanis_65:

(45, 46133), (Start: 55 @46157 has 10 MA's), (Start: 82 @46202 has 4 MA's), (103, 46241), (Start: 106 @46247 has 2 MA's), (Start: 119 @46307 has 1 MA's), (124, 46328), (133, 46364), (142, 46400), (148, 46418), (158, 46484), (190, 46592), (196, 46607), (213, 46640), (215, 46643), (224, 46664),

Gene: Targaryen_216 Start: 109330, Stop: 109644, Start Num: 122

Candidate Starts for Targaryen_216:

(Start: 122 @109330 has 8 MA's), (Start: 125 @109342 has 15 MA's), (Start: 128 @109354 has 12 MA's), (143, 109420), (154, 109474), (156, 109489), (202, 109624),

Gene: Tarynearal_31 Start: 26979, Stop: 26470, Start Num: 74

Candidate Starts for Tarynearal_31:

(Start: 74 @26979 has 55 MA's),

Gene: Taurus_41 Start: 28575, Stop: 28192, Start Num: 85

Candidate Starts for Taurus_41:

(Start: 68 @28602 has 21 MA's), (Start: 85 @28575 has 100 MA's), (Start: 109 @28530 has 32 MA's), (152, 28359), (153, 28347),

Gene: Tefunt_36 Start: 26734, Stop: 27219, Start Num: 79

Candidate Starts for Tefunt_36:

(Start: 79 @26734 has 13 MA's), (Start: 109 @26785 has 32 MA's), (116, 26818), (Start: 119 @26833 has 1 MA's), (169, 27049), (217, 27187), (223, 27202),

Gene: TenaciousP_64 Start: 47760, Stop: 48215, Start Num: 62

Candidate Starts for TenaciousP_64:

(Start: 35 @47697 has 1 MA's), (47, 47730), (Start: 62 @47760 has 16 MA's), (Start: 68 @47769 has 21 MA's), (Start: 119 @47901 has 1 MA's), (142, 47994), (168, 48102), (181, 48153),

Gene: Teutsch_216 Start: 108974, Stop: 109264, Start Num: 128

Candidate Starts for Teutsch_216:

(Start: 122 @108950 has 8 MA's), (Start: 125 @108962 has 15 MA's), (Start: 128 @108974 has 12 MA's), (143, 109040), (154, 109094), (156, 109109), (202, 109244),

Gene: Texage_34 Start: 27813, Stop: 27382, Start Num: 85

Candidate Starts for Texage_34:

(Start: 85 @27813 has 100 MA's), (Start: 88 @27810 has 11 MA's), (Start: 109 @27765 has 32 MA's), (145, 27627), (190, 27450),

Gene: Theia_30 Start: 27003, Stop: 26494, Start Num: 74

Candidate Starts for Theia_30:

(Start: 74 @27003 has 55 MA's),

Gene: Thestral_36 Start: 26939, Stop: 27412, Start Num: 83

Candidate Starts for Thestral_36:

(Start: 83 @26939 has 67 MA's), (Start: 109 @26984 has 32 MA's), (Start: 112 @26993 has 2 MA's), (116, 27017), (126, 27059), (142, 27128), (217, 27380), (223, 27395),

Gene: Tiffany_41 Start: 28461, Stop: 28078, Start Num: 85

Candidate Starts for Tiffany_41:

(Start: 68 @28488 has 21 MA's), (Start: 85 @28461 has 100 MA's), (Start: 109 @28416 has 32 MA's), (152, 28245), (153, 28233),

Gene: Tiger_32 Start: 26872, Stop: 26363, Start Num: 74

Candidate Starts for Tiger_32:

(Start: 74 @26872 has 55 MA's),

Gene: Timshel_36 Start: 30226, Stop: 29732, Start Num: 91

Candidate Starts for Timshel_36:

(89, 30229), (Start: 91 @30226 has 11 MA's), (141, 30049), (189, 29863), (190, 29860), (228, 29782), (230, 29779),

Gene: TinaBelcher_35 Start: 26886, Stop: 27359, Start Num: 83

Candidate Starts for TinaBelcher_35:

(Start: 83 @26886 has 67 MA's), (Start: 109 @26931 has 32 MA's), (Start: 112 @26940 has 2 MA's), (116, 26964), (126, 27006), (142, 27075), (217, 27327), (223, 27342),

Gene: TinaFeyge_36 Start: 27799, Stop: 27320, Start Num: 94

Candidate Starts for TinaFeyge_36:

(Start: 94 @27799 has 37 MA's), (186, 27448), (190, 27436), (218, 27376), (222, 27364),

Gene: Todacoro_35 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for Todacoro_35:

(Start: 85 @27812 has 100 MA's), (Start: 88 @27809 has 11 MA's), (Start: 109 @27764 has 32 MA's), (145, 27626), (190, 27449),

Gene: TomSawyer_235 Start: 111000, Stop: 111368, Start Num: 109

Candidate Starts for TomSawyer_235:

(Start: 109 @111000 has 32 MA's), (Start: 122 @111060 has 8 MA's), (Start: 128 @111084 has 12 MA's), (143, 111150), (151, 111171), (154, 111204), (156, 111219), (202, 111354),

Gene: Toma_34 Start: 26511, Stop: 26990, Start Num: 81

Candidate Starts for Toma_34:

(Start: 81 @26511 has 5 MA's), (116, 26592), (Start: 119 @26607 has 1 MA's), (162, 26802), (217, 26958), (223, 26973),

Gene: Tomas_229 Start: 109990, Stop: 110343, Start Num: 113

Candidate Starts for Tomas_229:

(Start: 113 @109990 has 1 MA's), (Start: 122 @110035 has 8 MA's), (Start: 128 @110059 has 12 MA's), (134, 110080), (143, 110125), (154, 110179), (156, 110194),

Gene: Tomathan_40 Start: 27983, Stop: 27597, Start Num: 83

Candidate Starts for Tomathan_40:

(Start: 83 @27983 has 67 MA's), (153, 27752),

Gene: ToneTone_37 Start: 26318, Stop: 25929, Start Num: 76

Candidate Starts for ToneTone_37:

(Start: 76 @26318 has 18 MA's), (132, 26174), (147, 26129), (153, 26087), (158, 26060),

Gene: Toniann_146 Start: 79300, Stop: 79689, Start Num: 90

Candidate Starts for Toniann_146:

(Start: 90 @79300 has 4 MA's), (131, 79438), (190, 79660), (199, 79678),

Gene: Topanga_36 Start: 28017, Stop: 27481, Start Num: 78

Candidate Starts for Topanga_36:

(Start: 78 @28017 has 6 MA's), (Start: 109 @27960 has 32 MA's), (116, 27927), (Start: 117 @27918 has 2 MA's), (184, 27663), (189, 27648),

Gene: ToriToki_54 Start: 29434, Stop: 29018, Start Num: 93

Candidate Starts for ToriToki_54:

(66, 29476), (Start: 93 @29434 has 13 MA's), (Start: 119 @29347 has 1 MA's), (143, 29251), (144, 29248), (147, 29242), (163, 29164),

Gene: Treat_54 Start: 29375, Stop: 28959, Start Num: 93

Candidate Starts for Treat_54:

(66, 29417), (Start: 93 @29375 has 13 MA's), (Start: 119 @29288 has 1 MA's), (129, 29249), (142, 29198), (147, 29183), (149, 29177),

Gene: Tribute_213 Start: 109127, Stop: 109429, Start Num: 125

Candidate Starts for Tribute_213:

(Start: 122 @109115 has 8 MA's), (Start: 125 @109127 has 15 MA's), (Start: 128 @109139 has 12 MA's), (143, 109205), (154, 109259), (156, 109274), (202, 109409),

Gene: Trike_33 Start: 26496, Stop: 25912, Start Num: 88

Candidate Starts for Trike_33:

(Start: 88 @26496 has 11 MA's), (189, 26136), (197, 26118),

Gene: Triste_34 Start: 26047, Stop: 26535, Start Num: 73

Candidate Starts for Triste_34:

(16, 25867), (22, 25903), (44, 25999), (Start: 73 @26047 has 36 MA's), (108, 26119), (116, 26155), (Start: 117 @26164 has 2 MA's), (129, 26212), (173, 26377), (174, 26383), (217, 26503), (231, 26530),

Gene: Triumph_36 Start: 26636, Stop: 27115, Start Num: 79

Candidate Starts for Triumph_36:

(58, 26600), (Start: 79 @26636 has 13 MA's), (108, 26687), (116, 26723), (Start: 117 @26732 has 2 MA's), (Start: 119 @26738 has 1 MA's), (123, 26756), (217, 27083), (223, 27098),

Gene: TroyPia_36 Start: 27802, Stop: 27323, Start Num: 94

Candidate Starts for TroyPia_36:

(Start: 94 @27802 has 37 MA's), (186, 27451), (190, 27439), (218, 27379), (222, 27367),

Gene: Trufflozitus_69 Start: 46845, Stop: 47360, Start Num: 55

Candidate Starts for Trufflozitus_69:

(Start: 55 @46845 has 10 MA's), (103, 46929), (Start: 106 @46935 has 2 MA's), (Start: 119 @46995 has 1 MA's), (124, 47016), (133, 47052), (142, 47088), (158, 47172), (190, 47280), (196, 47295), (213, 47328), (215, 47331), (224, 47352),

Gene: TrvxScott_34 Start: 26932, Stop: 27405, Start Num: 83

Candidate Starts for TrvxScott_34:

(Start: 83 @26932 has 67 MA's), (Start: 109 @26977 has 32 MA's), (Start: 112 @26986 has 2 MA's), (116, 27010), (126, 27052), (142, 27121), (217, 27373), (223, 27388),

Gene: TuanPN_33 Start: 25988, Stop: 26476, Start Num: 73

Candidate Starts for TuanPN_33:

(19, 25820), (43, 25937), (Start: 73 @25988 has 36 MA's), (108, 26060), (116, 26096), (Start: 117 @26105 has 2 MA's), (129, 26153), (173, 26318), (174, 26324), (217, 26444), (231, 26471),

Gene: Tucker_40 Start: 26404, Stop: 26015, Start Num: 76

Candidate Starts for Tucker_40:

(Start: 76 @26404 has 18 MA's), (103, 26377), (132, 26260), (147, 26215), (153, 26173), (158, 26146),

Gene: Twigg_32 Start: 26952, Stop: 26443, Start Num: 74

Candidate Starts for Twigg_32:

(Start: 74 @26952 has 55 MA's),

Gene: Twister_36 Start: 27928, Stop: 27389, Start Num: 78

Candidate Starts for Twister_36:

(Start: 78 @27928 has 6 MA's), (184, 27571), (189, 27556),

Gene: Ulysses_34 Start: 27484, Stop: 27011, Start Num: 94

Candidate Starts for Ulysses_34:

(Start: 94 @27484 has 37 MA's), (186, 27133), (190, 27121), (218, 27061), (222, 27049),

Gene: UnionJack_33 Start: 26328, Stop: 25807, Start Num: 65

Candidate Starts for UnionJack_33:

(45, 26370), (Start: 65 @26328 has 1 MA's), (Start: 74 @26316 has 55 MA's),

Gene: Unstoppable_34 Start: 25679, Stop: 26167, Start Num: 73

Candidate Starts for Unstoppable_34:

(44, 25631), (Start: 73 @25679 has 36 MA's), (108, 25751), (Start: 117 @25796 has 2 MA's), (142, 25898), (174, 26015), (217, 26135), (231, 26162),

Gene: Untouchable_66 Start: 47269, Stop: 47808, Start Num: 68

Candidate Starts for Untouchable_66:

(37, 47203), (Start: 62 @47260 has 16 MA's), (Start: 68 @47269 has 21 MA's), (Start: 119 @47401 has 1 MA's), (142, 47494), (154, 47557), (168, 47602), (181, 47653), (209, 47725),

Gene: VA6_37 Start: 28094, Stop: 27678, Start Num: 83

Candidate Starts for VA6_37:

(8, 28382), (Start: 83 @28094 has 67 MA's), (153, 27863), (189, 27731), (200, 27710), (206, 27692),

Gene: VC3_40 Start: 28082, Stop: 27666, Start Num: 83

Candidate Starts for VC3_40:

(8, 28370), (Start: 83 @28082 has 67 MA's), (153, 27851), (189, 27719), (200, 27698), (206, 27680),

Gene: Vanseggelen_40 Start: 27232, Stop: 27636, Start Num: 83

Candidate Starts for Vanseggelen_40:

(16, 27037), (47, 27172), (Start: 83 @27232 has 67 MA's), (Start: 109 @27277 has 32 MA's), (Start: 112 @27286 has 2 MA's), (116, 27310), (Start: 117 @27319 has 2 MA's), (126, 27352), (189, 27613), (191, 27619),

Gene: Vardy_63 Start: 46057, Stop: 46503, Start Num: 68

Candidate Starts for Vardy_63:

(37, 45991), (50, 46027), (Start: 62 @46048 has 16 MA's), (Start: 68 @46057 has 21 MA's), (Start: 119 @46189 has 1 MA's), (137, 46255), (142, 46282), (147, 46297), (168, 46390), (181, 46441),

Gene: Vash_45 Start: 33403, Stop: 33828, Start Num: 83

Candidate Starts for Vash_45:

(Start: 83 @33403 has 67 MA's), (Start: 94 @33415 has 37 MA's), (116, 33493), (Start: 119 @33508 has 1 MA's), (123, 33526), (173, 33715), (190, 33784), (195, 33796), (201, 33808), (205, 33820),

Gene: Verabelle_38 Start: 27616, Stop: 28023, Start Num: 83

Candidate Starts for Verabelle_38:

(16, 27421), (27, 27496), (47, 27556), (Start: 83 @27616 has 67 MA's), (Start: 112 @27673 has 2 MA's), (Start: 117 @27706 has 2 MA's), (130, 27757), (142, 27808), (147, 27823), (174, 27940), (189, 28000), (191, 28006),

Gene: Veracruz_34 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for Veracruz_34:

(Start: 85 @27812 has 100 MA's), (Start: 88 @27809 has 11 MA's), (Start: 109 @27764 has 32 MA's), (145, 27626), (190, 27449),

Gene: Verse_35 Start: 28380, Stop: 28784, Start Num: 83

Candidate Starts for Verse_35:

(47, 28317), (Start: 83 @28380 has 67 MA's), (Start: 109 @28425 has 32 MA's), (Start: 112 @28434 has 2 MA's), (116, 28458), (130, 28518), (174, 28701), (189, 28761), (191, 28767),

Gene: Vix_41 Start: 28658, Stop: 28275, Start Num: 85

Candidate Starts for Vix_41:

(Start: 68 @28685 has 21 MA's), (Start: 85 @28658 has 100 MA's), (Start: 109 @28613 has 32 MA's), (152, 28442), (153, 28430),

Gene: VohminGhazi_40 Start: 26617, Stop: 26225, Start Num: 74

Candidate Starts for VohminGhazi_40:

(Start: 74 @26617 has 55 MA's), (132, 26470), (147, 26425), (153, 26383), (158, 26356),

Gene: Vorvolakos_54 Start: 29094, Stop: 28675, Start Num: 93

Candidate Starts for Vorvolakos_54:

(Start: 93 @29094 has 13 MA's), (Start: 105 @29067 has 1 MA's), (116, 29022), (166, 28812),

Gene: WRightOn_58 Start: 29613, Stop: 29197, Start Num: 96

Candidate Starts for WRightOn_58:

(34, 29736), (Start: 84 @29628 has 1 MA's), (Start: 96 @29613 has 3 MA's), (153, 29385),

Gene: WalterMcMickey_36 Start: 27928, Stop: 27389, Start Num: 78

Candidate Starts for WalterMcMickey_36:

(Start: 78 @27928 has 6 MA's), (184, 27571), (189, 27556),

Gene: Warpy_220 Start: 108239, Stop: 108553, Start Num: 122

Candidate Starts for Warpy_220:

(Start: 122 @108239 has 8 MA's), (Start: 125 @108251 has 15 MA's), (Start: 128 @108263 has 12 MA's), (143, 108329), (154, 108383), (156, 108398), (202, 108533),

Gene: Watermoore_216 Start: 109485, Stop: 109787, Start Num: 125

Candidate Starts for Watermoore_216:

(Start: 122 @109473 has 8 MA's), (Start: 125 @109485 has 15 MA's), (Start: 128 @109497 has 12 MA's), (143, 109563), (154, 109617), (156, 109632), (202, 109767),

Gene: Watson_41 Start: 28595, Stop: 28185, Start Num: 68

Candidate Starts for Watson_41:

(Start: 68 @28595 has 21 MA's), (Start: 85 @28568 has 100 MA's), (Start: 109 @28523 has 32 MA's),
(152, 28352), (153, 28340),

Gene: Weasels2_199 Start: 104456, Stop: 104812, Start Num: 115

Candidate Starts for Weasels2_199:

(Start: 115 @104456 has 1 MA's), (Start: 120 @104483 has 2 MA's), (Start: 125 @104507 has 15
MA's), (146, 104594), (180, 104735),

Gene: Wentworth_71 Start: 50670, Stop: 50269, Start Num: 100

Candidate Starts for Wentworth_71:

(Start: 80 @50700 has 3 MA's), (Start: 100 @50670 has 2 MA's), (Start: 106 @50658 has 2 MA's),
(Start: 109 @50646 has 32 MA's), (Start: 117 @50604 has 2 MA's), (Start: 119 @50598 has 1 MA's),
(154, 50448), (158, 50427), (168, 50397), (174, 50376),

Gene: Werner_34 Start: 26057, Stop: 26545, Start Num: 73

Candidate Starts for Werner_34:

(16, 25877), (22, 25913), (44, 26009), (Start: 73 @26057 has 36 MA's), (108, 26129), (116, 26165),
(Start: 117 @26174 has 2 MA's), (129, 26222), (142, 26276), (155, 26351), (173, 26387), (174, 26393),
(217, 26513), (231, 26540),

Gene: Whatever_34 Start: 26057, Stop: 26545, Start Num: 73

Candidate Starts for Whatever_34:

(16, 25877), (22, 25913), (44, 26009), (Start: 73 @26057 has 36 MA's), (108, 26129), (116, 26165),
(129, 26222), (173, 26387), (174, 26393), (217, 26513), (231, 26540),

Gene: WhereRU_216 Start: 107768, Stop: 108070, Start Num: 125

Candidate Starts for WhereRU_216:

(Start: 122 @107756 has 8 MA's), (Start: 125 @107768 has 15 MA's), (Start: 128 @107780 has 12
MA's), (143, 107846), (151, 107867), (156, 107915), (169, 107942), (174, 107960), (202, 108050),

Gene: Wiks_39 Start: 26386, Stop: 25997, Start Num: 76

Candidate Starts for Wiks_39:

(Start: 76 @26386 has 18 MA's), (132, 26242), (147, 26197), (153, 26155), (158, 26128),

Gene: Wilkos_73 Start: 50809, Stop: 50432, Start Num: 109

Candidate Starts for Wilkos_73:

(Start: 80 @50863 has 3 MA's), (Start: 109 @50809 has 32 MA's), (Start: 119 @50761 has 1 MA's),
(158, 50590), (168, 50560), (174, 50539), (175, 50536),

Gene: Wipeout_221 Start: 109952, Stop: 110320, Start Num: 109

Candidate Starts for Wipeout_221:

(Start: 109 @109952 has 32 MA's), (Start: 122 @110012 has 8 MA's), (Start: 128 @110036 has 12
MA's), (143, 110102), (151, 110123), (154, 110156), (156, 110171), (202, 110306),

Gene: Wofford_231 Start: 112242, Stop: 112598, Start Num: 112

Candidate Starts for Wofford_231:

(63, 112140), (69, 112149), (72, 112155), (Start: 79 @112170 has 13 MA's), (Start: 83 @112176 has
67 MA's), (101, 112212), (Start: 104 @112218 has 1 MA's), (Start: 112 @112242 has 2 MA's), (Start:
122 @112290 has 8 MA's), (Start: 128 @112314 has 12 MA's), (134, 112335), (143, 112380), (154,
112434), (156, 112449), (201, 112581),

Gene: Wooldri_43 Start: 28514, Stop: 28104, Start Num: 68

Candidate Starts for Wooldri_43:

(Start: 68 @28514 has 21 MA's), (Start: 85 @28487 has 100 MA's), (Start: 109 @28442 has 32 MA's), (152, 28271), (153, 28259),

Gene: WunderPhul_40 Start: 26384, Stop: 25995, Start Num: 76

Candidate Starts for WunderPhul_40:

(Start: 76 @26384 has 18 MA's), (132, 26240), (147, 26195), (153, 26153), (158, 26126),

Gene: Yaboi_233 Start: 109149, Stop: 109457, Start Num: 122

Candidate Starts for Yaboi_233:

(98, 109056), (Start: 104 @109074 has 1 MA's), (Start: 109 @109089 has 32 MA's), (Start: 122 @109149 has 8 MA's), (Start: 128 @109173 has 12 MA's), (134, 109194), (143, 109239), (154, 109293), (156, 109308),

Gene: Yara_67 Start: 49527, Stop: 49126, Start Num: 80

Candidate Starts for Yara_67:

(Start: 80 @49527 has 3 MA's), (116, 49440), (161, 49254), (174, 49221), (203, 49143),

Gene: Yasdniil_34 Start: 26106, Stop: 26594, Start Num: 73

Candidate Starts for Yasdniil_34:

(16, 25926), (44, 26058), (Start: 73 @26106 has 36 MA's), (108, 26178), (116, 26214), (Start: 117 @26223 has 2 MA's), (129, 26271), (173, 26436), (174, 26442), (217, 26562), (231, 26589),

Gene: Yokurt_40 Start: 26386, Stop: 25997, Start Num: 76

Candidate Starts for Yokurt_40:

(Start: 76 @26386 has 18 MA's), (132, 26242), (147, 26197), (153, 26155), (158, 26128),

Gene: Yosif_37 Start: 28173, Stop: 28583, Start Num: 83

Candidate Starts for Yosif_37:

(Start: 83 @28173 has 67 MA's), (Start: 112 @28227 has 2 MA's), (116, 28251), (174, 28494), (189, 28554), (191, 28560),

Gene: Zainub_37 Start: 27276, Stop: 27749, Start Num: 83

Candidate Starts for Zainub_37:

(Start: 83 @27276 has 67 MA's), (Start: 109 @27321 has 32 MA's), (Start: 112 @27330 has 2 MA's), (116, 27354), (Start: 117 @27363 has 2 MA's), (Start: 119 @27369 has 1 MA's), (142, 27465), (174, 27597), (217, 27717), (223, 27732),

Gene: Zaka_40 Start: 26386, Stop: 25997, Start Num: 76

Candidate Starts for Zaka_40:

(Start: 76 @26386 has 18 MA's), (132, 26242), (147, 26197), (153, 26155), (158, 26128),

Gene: Zeigle_54 Start: 29457, Stop: 29041, Start Num: 96

Candidate Starts for Zeigle_54:

(34, 29580), (Start: 84 @29472 has 1 MA's), (Start: 96 @29457 has 3 MA's), (153, 29229),

Gene: Zemlya_36 Start: 26609, Stop: 27091, Start Num: 79

Candidate Starts for Zemlya_36:

(30, 26504), (44, 26549), (Start: 79 @26609 has 13 MA's), (Start: 83 @26615 has 67 MA's), (116, 26693), (Start: 119 @26708 has 1 MA's), (162, 26903), (190, 27002), (217, 27059), (223, 27074), (231, 27086),

Gene: Zeph_66 Start: 47186, Stop: 47647, Start Num: 62

Candidate Starts for Zeph_66:

(37, 47129), (Start: 62 @47186 has 16 MA's), (Start: 68 @47195 has 21 MA's), (Start: 119 @47327 has 1 MA's), (137, 47393), (142, 47420), (154, 47483), (168, 47528),

Gene: Zetzy_40 Start: 28139, Stop: 27756, Start Num: 85

Candidate Starts for Zetzy_40:

(Start: 68 @28166 has 21 MA's), (Start: 85 @28139 has 100 MA's), (Start: 109 @28094 has 32 MA's), (152, 27923), (153, 27911),

Gene: Zolita_31 Start: 27234, Stop: 26728, Start Num: 77

Candidate Starts for Zolita_31:

(Start: 77 @27234 has 5 MA's),

Gene: ZooBear_54 Start: 29438, Stop: 29022, Start Num: 93

Candidate Starts for ZooBear_54:

(66, 29480), (Start: 93 @29438 has 13 MA's), (Start: 119 @29351 has 1 MA's), (143, 29255), (144, 29252), (147, 29246), (163, 29168),

Gene: Zulu_40 Start: 26385, Stop: 25996, Start Num: 76

Candidate Starts for Zulu_40:

(Start: 76 @26385 has 18 MA's), (103, 26358), (132, 26241), (147, 26196), (153, 26154), (158, 26127),

Gene: phiBT1_20 Start: 34511, Stop: 34861, Start Num: 109

Candidate Starts for phiBT1_20:

(Start: 109 @34511 has 32 MA's), (Start: 117 @34553 has 2 MA's), (Start: 119 @34559 has 1 MA's), (123, 34577), (132, 34613), (190, 34835),

Gene: phiCAM_34 Start: 29556, Stop: 29906, Start Num: 112

Candidate Starts for phiCAM_34:

(Start: 83 @29499 has 67 MA's), (Start: 112 @29556 has 2 MA's), (116, 29580), (Start: 117 @29589 has 2 MA's), (126, 29622), (130, 29640), (157, 29772), (168, 29802), (173, 29817), (184, 29868), (189, 29883), (191, 29889),

Gene: phiHau3_36 Start: 26164, Stop: 26676, Start Num: 60

Candidate Starts for phiHau3_36:

(44, 26128), (Start: 60 @26164 has 2 MA's), (Start: 83 @26200 has 67 MA's), (Start: 109 @26245 has 32 MA's), (116, 26278), (Start: 117 @26287 has 2 MA's), (123, 26311), (217, 26644),