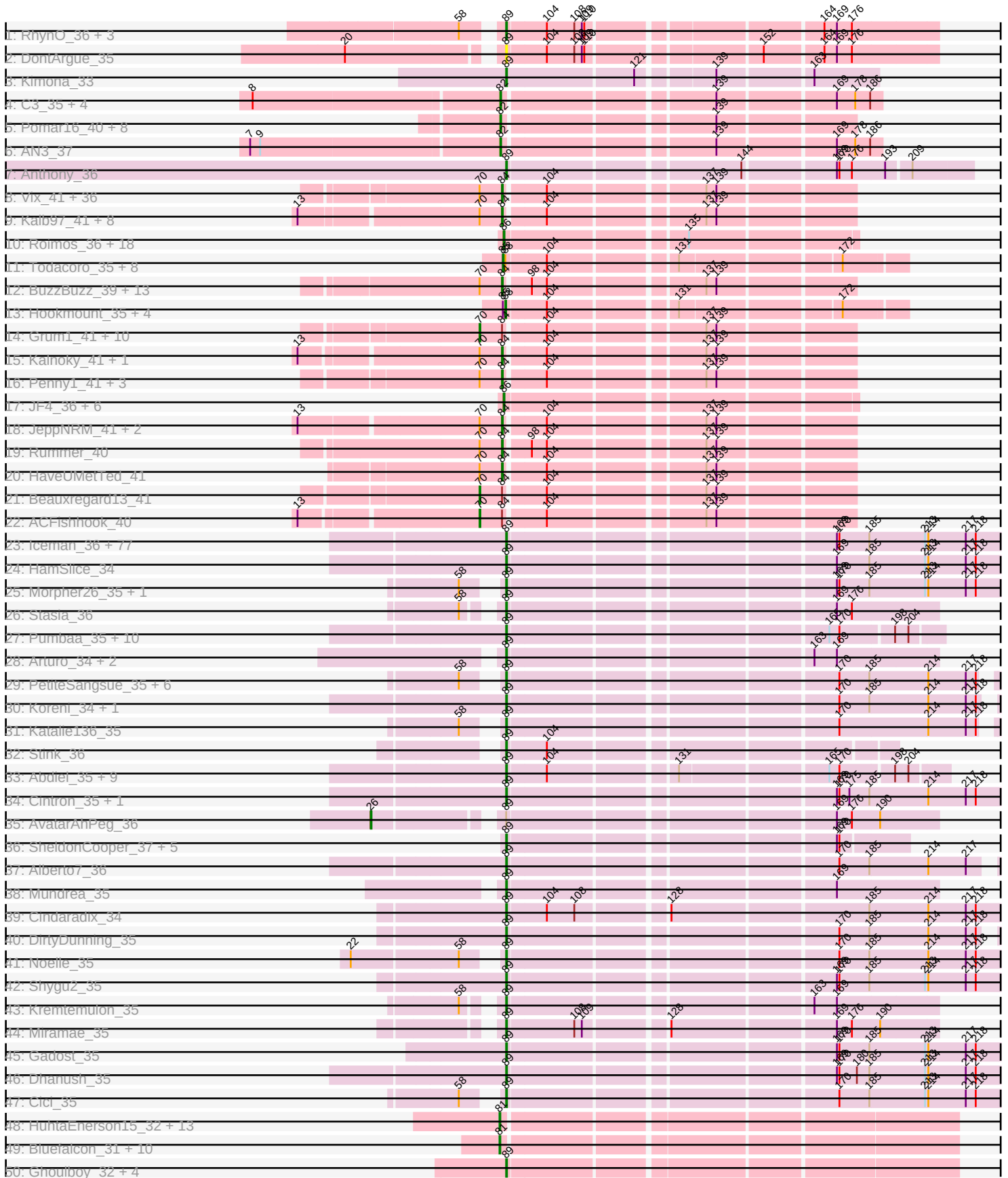
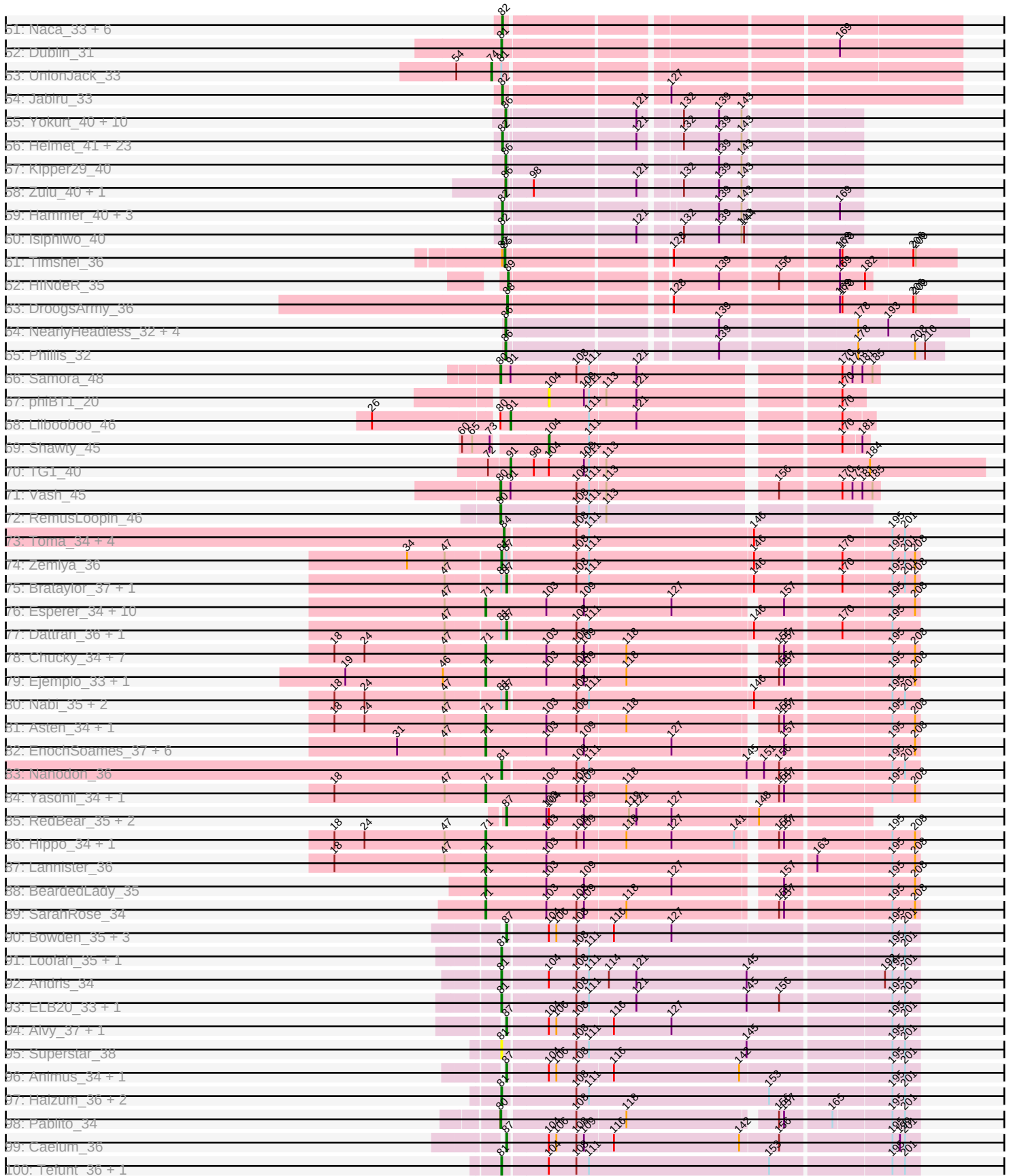


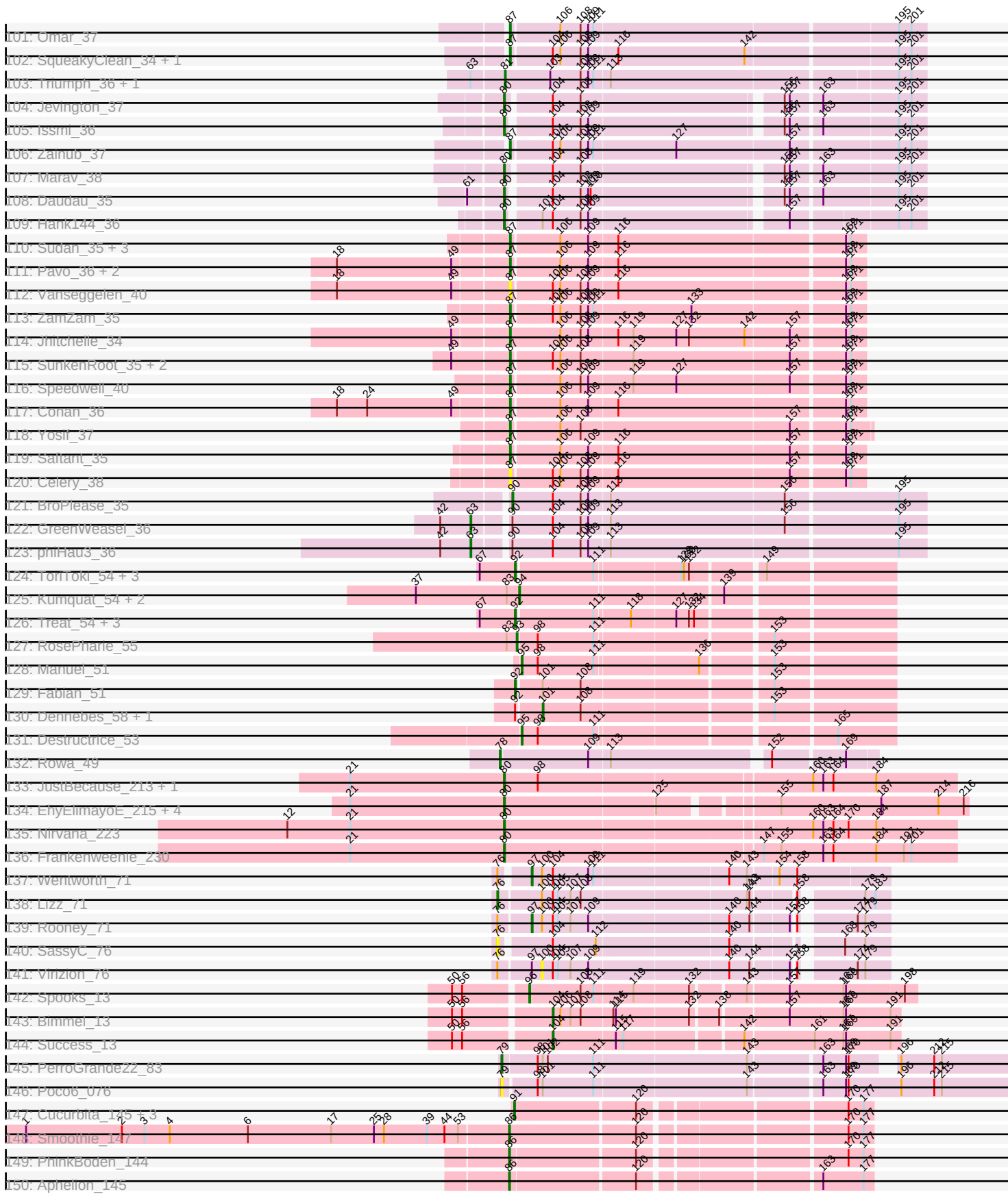
Pham 330302



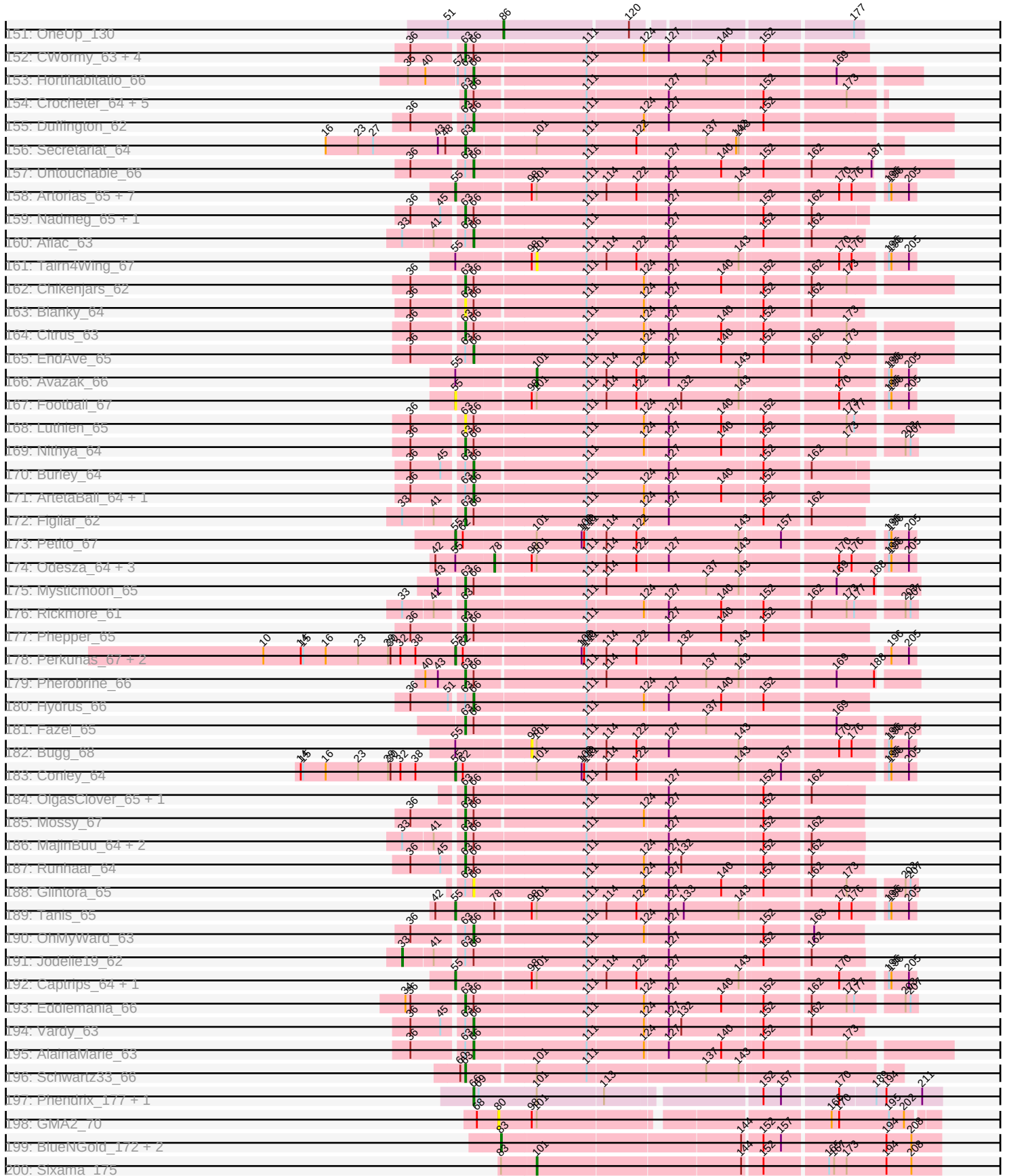
Pham 330302



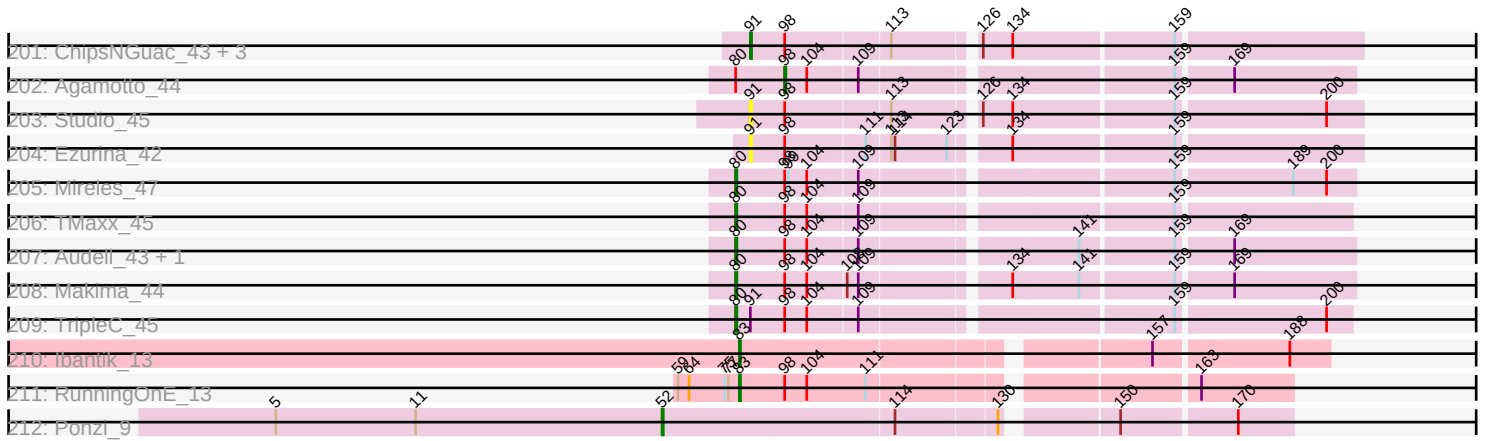
Pham 330302



Pham 330302



Pham 330302



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 330302 Report

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

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

Pham number 330302 has 629 members, 33 are drafts.

Phages represented in each track:

- Track 1 : RhynO_36, Shapes_39, Rowdy_39, DustyMartin_39
- Track 2 : DontArgue_35
- Track 3 : Kimona_33
- Track 4 : C3_35, AN9_40, ANI8_40, VC3_40, VA6_37
- Track 5 : Pomar16_40, Naji_40, D29_36.1, Kerberos_40, StarStuff_40, Tomathan_40, DBQu4n_40, Duplo_40, D32_40
- Track 6 : AN3_37
- Track 7 : Anthony_36
- Track 8 : Vix_41, Microwolf_41, Dieselweasel_41, MuchMore_43, DaHudson_41, Phoebe_41, JHC117_41, GtownJaz_41, Grif_41, Taurus_41, Aglet_41, Tiffany_41, MarQuardt_41, Malinsilva_43, Jobu08_40, Mainiac_41, Pembroke_41, Cullens_41, Stagni_41, Fernando_41, Lilith_41, AugsMagnumOpus_43, Anubis_43, P28Green_41, JenCasNa_41, SoilDragon_40, Marie_41, Sabinator_40, MadMarie_41, StepMih_41, Farber_41, BreSam8_41, Zetzy_40, LugYA_43, Ollie_41, PGHhamlin_43, OlanP_40
- Track 9 : Kalb97_41, Reba_41, Manu_41, Groupthink_41, Phranny_41, PurpleHaze_40, PhishRPhriends_39, Calvinny_40, Gemma_40
- Track 10 : Roimos_36, Bugatti_36, TNguyen7_36, Pistachio_37, Heathen_36, MA5_36, Clammy_36, Fred313_36, SaturnRing_36, BlueBird_37, DropBear_36, Kachowdy_36, Giroux_37, HelDan_36, Marchesa_36, Puppy_37, Scout_36, BabyRay_36, Idleandcovert_36
- Track 11 : Todacoro_35, Texage_34, Margo_35, QuinnKiro_34, Veracruz_34, Noella_35, ResDef_35, Norbert_34, Panamaxus_34
- Track 12 : BuzzBuzz_39, Daishi_39, Soshari_42, Louie6_40, LarryKay_40, Spike509_40, Methuselah_39, HashRod_41, Bxz2_38, TinyPebbles_40, Misomonster_42, KADY_41, Phoxy_40, AgronaGT15_40
- Track 13 : Hookmount_35, Lambert1_35, Popcicle_35, Caviar_35, Pocahontas_35
- Track 14 : Grum1_41, ClownCar_40, GinkgoMaracino_41, Snickers_41, Sabia_41, Watson_41, Grub_41, MoneyMay_41, Wooldri_43, Hercules11_41, SoYo_41
- Track 15 : Kalnok_41, Marius_41
- Track 16 : Penny1_41, EpicPhail_41, LBerry_41, PotatoSplit_42
- Track 17 : JF4_36, JF2_36, MK4_36, Isca_36, Rockstar_36, Phantastic_36, B1_34
- Track 18 : JeppNRM_41, Pawn_40, Heliosoles_40

- Track 19 : Rummer_40
- Track 20 : HaveUMetTed_41
- Track 21 : Beauxregard13_41
- Track 22 : ACFishhook_40
- Track 23 : Iceman_36, Bartimeaus_35, Wilbur_35, Bruiser_34, Caelakin_35, Ruin_35, TygerBlood_35, NotAPhaseMom_35, SteMason_35, Albee_35, Flux_35, Eris_34, Annyong_35, Bombshell_35, TiroTheta9_35, Sabertooth_35, LochMonster_35, JoongJeon_35, Millski_34, PeterPeter_35, Broseidon_35, Lorenzo_35, Eapen_35, Avle17_35, Relief_35, Holli_35, CentreCat_35, Thanksgivukkah_35, Phighter1804_35, Nemo27_35, LappelDuVide_35, Lemur_35, LittleB_35, Druantia_35, Wander_35, Skipitt_35, Kingmustik0402_35, Connomayer_35, Romney_35, BubbleTrouble_35, Jaykayelowell_35, Huxley_35, Spino_35, Roosevelt_35, Cocoaberry_35, Taquarus_35, Kyee_35, Pipcraft_35, Scamp_35, Baby16_35, Chaph_35, Maverick_35, NorthStar_35, Phacado_35, Koan_35, Peaches_35, Deano_35, Shaka_35, Mayonnaise_35, JetBlade_35, KFPoly_35, Mazhar510_35, Happiness_35, Florean_35, SeniorClean_35, Funston_35, Citius_35, Wizard007_35, Lunsford_36, Sultana_35, MeeZee_35, Blackmoor_35, Houdini22_35, Burger_34, Eros_35, Clarenza_35, Palestino_34, YoSam321_35
- Track 24 : HamSlice_34
- Track 25 : Morpher26_35, Wile_35
- Track 26 : Stasia_36
- Track 27 : Pumbaa_35, Melvin_37, Phelipe_36, TinaFeyge_36, Nyxis_35, TroyPia_36, Commander_36, Ulysses_34, Phontbonne_35, LittleGuy_35, Medusa_36
- Track 28 : Arturo_34, Kratak_35, Iracema64_36
- Track 29 : PetiteSangsue_35, Perplexer_35, AbbysRanger_35, Datway_35, Backyardigan_35, Badger_35, Xena_35
- Track 30 : Koreni_34, ICleared_35
- Track 31 : Katalie136_35
- Track 32 : Stink_36
- Track 33 : Abdiel_35, Maxo_36, BellusTerra_36, Eurydice_36, Eagle_35, Ohfah_36, Sparxx_36, Polymorphads_36, Nebs_36, Morrow_36
- Track 34 : Cintron_35, Camperdownii_34
- Track 35 : AvatarAhPeg_36
- Track 36 : SheldonCooper_37, ChampagnePapi_37, BangNhom_36, Obama12_37, LHTSCC_37, Cerulean_37
- Track 37 : Alberto7_36
- Track 38 : Mundrea_35
- Track 39 : Cindaradix_34
- Track 40 : DirtyDunning_35
- Track 41 : Noelle_35
- Track 42 : Shygu2_35
- Track 43 : Kremtemulon_35
- Track 44 : Miramae_35
- Track 45 : Gadost_35
- Track 46 : Dhanush_35
- Track 47 : Cici_35
- Track 48 : HuhtaEnerson15_32, George_31, LittleCherry_32, Prinashel11_33, Coog_32, Bonamassa_32, Archetta_32, Cuco_32, Milcery_32, Twigg_32, Tarynearal_31, Theia_30, Midas2_32, MarysWell_31
- Track 49 : Bluefalcon_31, Discoknowium_32, Lev2_32, AgentM_32, Aragog_32, Conspiracy_32, Tiger_32, Phlorence_32, ForGetIt_32, Jovo_32, PickleBack_32

- Track 50 : Ghoulboy_32, Zolita_31, SydNat_32, Micasa_32, Swirley_32
- Track 51 : Naca_33, Airmid_33, ElTiger69_33, Scorpia_34, Benedict_33, PetterN_34, Chadwick_34
- Track 52 : Dublin_31
- Track 53 : UnionJack_33
- Track 54 : Jabiru_33
- Track 55 : Yokurt_40, Artemis2UCLA_40, WunderPhul_40, Priamo_41, Zaka_40, Hexamo_40, Jeffabunny_40, Lilbunny_39, Wiks_39, ToneTone_37, CloudWang3_40
- Track 56 : Helmet_41, Gruunaga_40, Chartreuse_40, Dorothea_40, Kazan_41, Blinn1_41, Temprado_40, Gladiator_40, SuperAwesome_40, BABullseye_40, Indra_42, McFly_40, Polyphemus_40, Newrala_40, BennyP_40, Hoot_40, Cookiedough_40, BlessJoy_40, Roksolana_41, VohminGhazi_40, JewelBug_41, Neeharika16_40, Jordennis_40, SmellyB_40
- Track 57 : Kipper29_40
- Track 58 : Zulu_40, Tucker_40
- Track 59 : Hammer_40, Koko_40, Rifter_40, Blue7_41
- Track 60 : Isiphiwo_40
- Track 61 : Timshel_36
- Track 62 : HINdeR_35
- Track 63 : DroogsArmy_36
- Track 64 : NearlyHeadless_32, Stephig9_32, Danforth_31, Roary_32, Expelliarmus_31
- Track 65 : Phillis_32
- Track 66 : Samora_48
- Track 67 : phiBT1_20
- Track 68 : Lilbooboo_46
- Track 69 : Shawty_45
- Track 70 : TG1_40
- Track 71 : Vash_45
- Track 72 : RemusLoopin_46
- Track 73 : Toma_34, Lika_34, Goby_34, Sujidade_35, Godpower_35
- Track 74 : Zemlya_36
- Track 75 : Brataylor_37, Danzina_36
- Track 76 : Esperer_34, Bovely_34, Hydra_36, Unstoppable_34, Leviticus_34, Aaronocolus_34, Ozzie_34, SunsetPointe_34, Legacy_34, Indigo_33, Phettuccine_34
- Track 77 : Dattran_36, Celeste_35
- Track 78 : Chucky_34, BarryBee_37, OzzyJ_35, TagePhighter_36, Snorlax_34, Dwayne_34, Triste_34, Emaanora_37
- Track 79 : Ejemplo_33, TuanPN_33
- Track 80 : Nabi_35, Lorelei_35, Rana_35
- Track 81 : Asten_34, Whatever_34
- Track 82 : EnochSoames_37, Izzy_35, Eddasa_35, Oliynyk_35, Rusticus_35, Jash_35, BryanRecycles_35
- Track 83 : Nanodon_36
- Track 84 : Yasdnail_34, Maneekul_34
- Track 85 : RedBear_35, Katalie_34, South40_34
- Track 86 : Hippo_34, Werner_34
- Track 87 : Lannister_36
- Track 88 : BeardedLady_35
- Track 89 : SarahRose_34
- Track 90 : Bowden_35, Thestral_36, TinaBelcher_35, TrvxScott_34
- Track 91 : Loofah_35, Paedore_34
- Track 92 : Andris_34

- Track 93 : ELB20_33, R4_35
- Track 94 : Alvy_37, BartholomewSD_37
- Track 95 : Superstar_38
- Track 96 : Animus_34, GirlDinner_34
- Track 97 : Haizum_36, Diane_34, Amethyst_34
- Track 98 : Pablito_34
- Track 99 : Caelum_36
- Track 100 : Tefunt_36, Nishikigoi_36
- Track 101 : Omar_37
- Track 102 : SqueakyClean_34, Janus_35
- Track 103 : Triumph_36, Axiom_35
- Track 104 : Jevington_37
- Track 105 : Issmi_36
- Track 106 : Zainub_37
- Track 107 : Marav_38
- Track 108 : Daudau_35
- Track 109 : Hank144_36
- Track 110 : Sudan_35, Kaine_35, Dexers_34, Alsaber_36
- Track 111 : Pavo_36, ElGato_36, Provolone_36
- Track 112 : Vanseggelen_40
- Track 113 : ZamZam_35
- Track 114 : Jhitchelle_34
- Track 115 : SunkenRoot_35, Amela_35, Verse_35
- Track 116 : Speedwell_40
- Track 117 : Conan_36
- Track 118 : Yosif_37
- Track 119 : Saftant_35
- Track 120 : Celery_38
- Track 121 : BroPlease_35
- Track 122 : GreenWeasel_36
- Track 123 : phiHau3_36
- Track 124 : ToriToki_54, HaugeAnator_54, Percastrophe_54, ZooBear_54
- Track 125 : Kumquat_54, Zeigle_54, WRightOn_58
- Track 126 : Treat_54, Ollicious_54, Immanuel3_53, Romero_54
- Track 127 : RosePharie_55
- Track 128 : Manuel_51
- Track 129 : Fabian_51
- Track 130 : Dennebes_58, Vrykolakas_55
- Track 131 : Destructrice_53
- Track 132 : Rowa_49
- Track 133 : JustBecause_213, Kela_211
- Track 134 : EhyElimayoE_215, Kradal_214, Quantum_211, Sarkar_212, Satis_212
- Track 135 : Nirvana_223
- Track 136 : Frankenweenie_230
- Track 137 : Wentworth_71
- Track 138 : Lizz_71
- Track 139 : Rooney_71
- Track 140 : SassyC_76
- Track 141 : Virizion_76
- Track 142 : Spooks_13
- Track 143 : Bimmel_13
- Track 144 : Success_13
- Track 145 : PerroGrande22_83

- Track 146 : Poco6_076
- Track 147 : Cucurbita_145, Culver_146, Toniann_146, Lozinak_146
- Track 148 : Smoothie_147
- Track 149 : PhinkBoden_144
- Track 150 : Aphelion_145
- Track 151 : OneUp_130
- Track 152 : CWormy_63, Arataki_63, Dialga_64, Demure_63, Zeph_66
- Track 153 : Hortihabitatio_66
- Track 154 : Crocheter_64, BetterYeti_64, Aloe25_65, PestoPenguin_66, Gusicorn_65, ShaggyRogers_64
- Track 155 : Duffington_62
- Track 156 : Secretariat_64
- Track 157 : Untouchable_66
- Track 158 : Artorias_65, JulesRay_65, FortCran_65, Capybara_65, Kerry_64, Dancer_65, Gravy_64, Trufflozitus_66
- Track 159 : Nadmeg_65, Kenosha_63
- Track 160 : Aflac_63
- Track 161 : Tairn4Wing_67
- Track 162 : Chickenjars_62
- Track 163 : Blanky_64
- Track 164 : Citrus_63
- Track 165 : EndAve_65
- Track 166 : Avazak_66
- Track 167 : Football_67
- Track 168 : Luthien_65
- Track 169 : Nithya_64
- Track 170 : Burley_64
- Track 171 : ArtetaBall_64, Madvan_64
- Track 172 : Figliar_62
- Track 173 : Petito_67
- Track 174 : Odesza_64, Roney_65, Gill_65, Magel_66
- Track 175 : Mysticmoon_65
- Track 176 : Rickmore_61
- Track 177 : Phepper_65
- Track 178 : Perkunas_67, SweetCrkHerbs_67, Talon44_67
- Track 179 : Pherobrine_66
- Track 180 : Hydrus_66
- Track 181 : Fazel_65
- Track 182 : Bugg_68
- Track 183 : Conley_64
- Track 184 : OlgasClover_65, BluerMoon_62
- Track 185 : Mossy_67
- Track 186 : MajinBuu_64, Tonaltzin_62, TenaciousP_64
- Track 187 : Runhaar_64
- Track 188 : Glintora_65
- Track 189 : Tanis_65
- Track 190 : OhMyWard_63
- Track 191 : Jodelie19_62
- Track 192 : Captrips_64, NoPickles_64
- Track 193 : Eddiemania_66
- Track 194 : Vardy_63
- Track 195 : AlainaMarie_63
- Track 196 : Schwartz33_66

- Track 197 : Phendrix_177, GodonK_189
- Track 198 : GMA2_70
- Track 199 : BlueNGold_172, Mareelih_173, Boopy_175
- Track 200 : Sixama_175
- Track 201 : ChipsNGuac_43, AnnabelleLee_43, Gerri43_43, Roberts_43
- Track 202 : Agamoto_44
- Track 203 : Studio_45
- Track 204 : Ezurina_42
- Track 205 : Mireles_47
- Track 206 : TMaxx_45
- Track 207 : Audell_43, LastNadiia_46
- Track 208 : Makima_44
- Track 209 : TripleC_45
- Track 210 : Ibantik_13
- Track 211 : RunningOnE_13
- Track 212 : 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 89, it was called in 145 of the 596 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AbbysRanger_35, Abdiel_35, Albee_35, Alberto7_36, Annyong_35, Anthony_36, Arturo_34, Avle17_35, Baby16_35, Backyardigan_35, Badger_35, BangNhom_36, Bartimeaus_35, BellusTerra_36, Blackmoor_35, Bombshell_35, Broseidon_35, Bruiser_34, BubbleTrouble_35, Burger_34, Caelakin_35, Camperdownii_34, CentreCat_35, Cerulean_37, ChampagnePapi_37, Chaph_35, Cici_35, Cindaradix_34, Cintron_35, Citius_35, Clarenza_35, Cocoaberry_35, Commander_36, Connomayer_35, Datway_35, Deano_35, Dhanush_35, DirtyDunning_35, DontArgue_35, Druantia_35, DustyMartin_39, Eagle_35, Eapen_35, Eris_34, Eros_35, Eurydice_36, Florean_35, Flux_35, Funston_35, Gadost_35, Ghoulboy_32, HINdeR_35, HamSlice_34, Happiness_35, Holli_35, Houdini22_35, Huxley_35, ICleared_35, Iceman_36, Iracema64_36, Jaykayelowell_35, JetBlade_35, JoongJeon_35, KFPoly_35, Katalie136_35, Kimona_33, Kingmustik0402_35, Koan_35, Koreni_34, Kratark_35, Kremtemulon_35, Kyee_35, LHTSCC_37, LappelDuVide_35, Lemur_35, LittleB_35, LittleGuy_35, LochMonster_35, Lorenzo_35, Lunsford_36, Maverick_35, Maxo_36, Mayonnaise_35, Mazhar510_35, Medusa_36, MeeZee_35, Melvin_37, Micasa_32, Millski_34, Miramae_35, Morpher26_35, Morrow_36, Mundrea_35, Nebs_36, Nemo27_35, Noelle_35, NorthStar_35, NotAPhaseMom_35, Nyxis_35, Obama12_37, Ohfah_36, Palestino_34, Peaches_35, Perplexer_35, PeterPeter_35, PetiteSangsue_35, Phacado_35, Phelipe_36, Phighter1804_35, Phontbonne_35, Pipcraft_35, Polymorphads_36, Pumbaa_35, Relief_35, RhynO_36, Romney_35, Roosevelt_35, Rowdy_39, Ruin_35, Sabertooth_35, Scamp_35, SenorClean_35, Shaka_35, Shapes_39, SheldonCooper_37, Shygu2_35, Skipitt_35, Sparxx_36, Spino_35, Stasia_36, SteMason_35, Stink_36, Sultana_35, Swirley_32, SydNat_32, Taquarus_35, Thanksgivukkah_35, TinaFeyge_36, TiroTheta9_35, TroyPia_36, TygerBlood_35, Ulysses_34, Wander_35, Wilbur_35, Wile_35, Wizard007_35, Xena_35, YoSam321_35, Zolita_31,

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

- AvatarAhPeg_36,

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

- ACFishhook_40, AN3_37, AN9_40, ANI8_40, Aaronocolus_34, Aflac_63, Agamotto_44, AgentM_32, Aglet_41, AgronaGT15_40, Airmid_33, AlainaMarie_63, Aloe25_65, Alsaber_36, Alvy_37, Amela_35, Amethyst_34, Andris_34, Animus_34, AnnabelLee_43, Anubis_43, Aphelion_145, Aragog_32, Arataki_63, Archetta_32, Artemis2UCLA_40, ArtetaBall_64, Artorias_65, Asten_34, Audell_43, AugsMagnumOpus_43, Avazak_66, Axiom_35, B1_34, BABullseye_40, BabyRay_36, BarryBee_37, BartholomewSD_37, BeardedLady_35, Beauxregard13_41, Benedict_33, BennyP_40, BetterYeti_64, Bimmel_13, Blanky_64, BlessJoy_40, Blinn1_41, Blue7_41, BlueBird_37, BlueNGold_172, Bluefalcon_31, BluerMoon_62, Bonamassa_32, Boopy_175, Bovely_34, Bowden_35, Brataylor_37, BreSam8_41, BroPlease_35, BryanRecycles_35, Bugatti_36, Bugg_68, Burley_64, BuzzBuzz_39, Bxz2_38, C3_35, CWormy_63, Caelum_36, Calvinny_40, Captrips_64, Capybara_65, Caviar_35, Celery_38, Celeste_35, Chadwick_34, Chartreuse_40, Chikenjars_62, ChipsNGuac_43, Chucky_34, Citrus_63, Clammy_36, CloudWang3_40, ClownCar_40, Conan_36, Conley_64, Conspiracy_32, Coog_32, Cookiedough_40, Crocheter_64, Cuco_32, Cucurbita_145, Cullens_41, Culver_146, D29_36.1, D32_40, DBQu4n_40, DaHudson_41, Daishi_39, Dancer_65, Danforth_31, Danzina_36, Dattran_36, Daudau_35, Demure_63, Dennebes_58, Destructrice_53, Dexers_34, Dialga_64, Diane_34, Dieselweasel_41, Discoknowium_32, Dorothea_40, DroogsArmy_36, DropBear_36, Dublin_31, Duffington_62, Duplo_40, Dwayne_34, ELB20_33, Eddasa_35, Eddiemania_66, EhyElimayoE_215, Ejemplo_33, ElGato_36, ElTiger69_33, Emaanora_37, EndAve_65, EnochSoames_37, EpicPhail_41, Esperer_34, Expelliarmus_31, Ezurina_42, Fabian_51, Farber_41, Fazel_65, Fernando_41, Figliar_62, Football_67, ForGetIt_32, FortCran_65, Frankenweenie_230, Fred313_36, GMA2_70, Gemma_40, George_31, Gerri43_43, Gill_65, GingkoMaracino_41, GirlDinner_34, Giroux_37, Gladiator_40, Glintora_65, Goby_34, GodonK_189, Godpower_35, Gravy_64, GreenWeasel_36, Grif_41, Groupthink_41, Grub_41, Grum1_41, Gruunaga_40, GtownJaz_41, Gusicorn_65, Haizum_36, Hammer_40, Hank144_36, HashRod_41, HaugeAnator_54, HaveUMetTed_41, Heathen_36, HelDan_36, Heliosoles_40, Helmet_41, Hercules11_41, Hexamo_40, Hippo_34, Hookmount_35, Hoot_40, Hortihabitatio_66, HuhtaEnerson15_32, Hydra_36, Hydrus_66, Ibantik_13, Idleandcovert_36, Immanuel3_53, Indigo_33, Indra_42, Isca_36, Isiphiwo_40, Issmi_36, Izzy_35, JF2_36, JF4_36, JHC117_41, Jabiru_33, Janus_35, Jash_35, Jeffabunny_40, JenCasNa_41, JeppNRM_41, Jevington_37, JewelBug_41, Jhitchelle_34, Jobu08_40, Jodelie19_62, Jordennis_40, Jovo_32, JulesRay_65, JustBecause_213, KADY_41, Kachowdy_36, Kaine_35, Kalb97_41, Kalnoky_41, Katalie_34, Kazan_41, Kela_211, Kenosha_63, Kerberos_40, Kerry_64, Kipper29_40, Koko_40, Kradal_214, Kumquat_54, LBerry_41, Lambert1_35, Lannister_36, LarryKay_40, LastNadiia_46, Legacy_34, Lev2_32, Leviticus_34, Lika_34, Lilbooboo_46, Lilbunny_39, Lilith_41, LittleCherry_32, Lizz_71, Loofah_35, Lorelei_35, Louie6_40, Lozinak_146, LugYA_43, Luthien_65, MA5_36, MK4_36, MadMarie_41, Madvan_64, Magel_66, Mainiac_41, MajinBuu_64, Makima_44, Malinsilva_43, Maneeku1_34, Manu_41, Manuel_51, MarQuardt_41, Marav_38, Marchesa_36, Mareelih_173, Margo_35, Marie_41, Marius_41, MarysWell_31, McFly_40, Methuselah_39, Microwolf_41, Midas2_32, Milcery_32, Mireles_47, Misomonster_42, MoneyMay_41, Mossy_67, MuchMore_43, Mysticmoon_65, Nabi_35, Naca_33, Nadmeg_65, Naji_40, Nanodon_36, NearlyHeadless_32,

Neeharika16_40, Newrala_40, Nirvana_223, Nishikigoi_36, Nithya_64, NoPickles_64, Noella_35, Norbert_34, Odesza_64, OhMyWard_63, OlanP_40, OlgasClover_65, Olicious_54, Oliynyk_35, Ollie_41, Omar_37, OneUp_130, Ozzie_34, OzzyJ_35, P28Green_41, PGHhamlin_43, Pablito_34, Paedore_34, Panamaxus_34, Pavo_36, Pawn_40, Pembroke_41, Penny1_41, Percastrophe_54, Perkunas_67, PerroGrande22_83, PestoPenguin_66, Petito_67, PetterN_34, Phantastic_36, Phendrix_177, Phepper_65, Pherobrine_66, Phettuccine_34, Phillis_32, PhinkBoden_144, PhishRPhriends_39, Phlorence_32, Phoebe_41, Phoxy_40, Phranny_41, PickleBack_32, Pistachio_37, Pocahontas_35, Poco6_076, Polyphemus_40, Pomar16_40, Ponzi_9, Popcicle_35, PotatoSplit_42, Priamo_41, Prinashel1_33, Provolone_36, Puppy_37, PurpleHaze_40, Quantum_211, QuinnKiro_34, R4_35, Rana_35, Reba_41, RedBear_35, RemusLoopin_46, ResDef_35, Rickmore_61, Rifter_40, Roary_32, Roberts_43, Rockstar_36, Roimos_36, Roksolana_41, Romero_54, Roney_65, Rooney_71, RosePharie_55, Rowa_49, Rummer_40, Runhaar_64, RunningOnE_13, Rusticus_35, Sabia_41, Sabinator_40, Saftant_35, Samora_48, SarahRose_34, Sarkar_212, SassyC_76, Satis_212, SaturnRing_36, Schwartz33_66, Scorpiia_34, Scout_36, Secretariat_64, ShaggyRogers_64, Shawty_45, Sixama_175, SmellyB_40, Smoothie_147, Snickers_41, Snorlax_34, SoYo_41, SoilDragon_40, Soshari_42, South40_34, Speedwell_40, Spike509_40, Spooks_13, SqueakyClean_34, Stagni_41, StarStuff_40, StepMih_41, Stephig9_32, Studio_45, Success_13, Sudan_35, Sujidade_35, SunkenRoot_35, SunsetPointe_34, SuperAwesome_40, Superstar_38, SweetCrkHerbs_67, TG1_40, TMaxx_45, TNguyen7_36, TagePhighter_36, Tairn4Wing_67, Talon44_67, Tanis_65, Tarynearal_31, Taurus_41, Tefunt_36, Temprado_40, TenaciousP_64, Texage_34, Theia_30, Thestral_36, Tiffany_41, Tiger_32, Timshel_36, TinaBelcher_35, TinyPebbles_40, Todacoro_35, Toma_34, Tomathan_40, Tonaltzin_62, ToneTone_37, Toniann_146, ToriToki_54, Treat_54, TripleC_45, Triste_34, Triumph_36, Trufflozitus_66, TrvxScott_34, TuanPN_33, Tucker_40, Twigg_32, UnionJack_33, Unstoppable_34, Untouchable_66, VA6_37, VC3_40, Vanseggelen_40, Vardy_63, Vash_45, Veracruz_34, Verse_35, Virizion_76, Vix_41, VohminGhazi_40, Vrykolakas_55, WRightOn_58, Watson_41, Wentworth_71, Werner_34, Whatever_34, Wiks_39, Wooldri_43, WunderPhul_40, Yasdnil_34, Yokurt_40, Yosif_37, Zainub_37, Zaka_40, ZamZam_35, Zeigle_54, Zemlya_36, Zeph_66, Zetzy_40, ZooBear_54, Zulu_40, phiBT1_20, phiHau3_36,

Summary by start number:

Start 26:

- Found in 2 of 629 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AvatarAhPeg_36 (A4),

Start 33:

- Found in 7 of 629 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Jodelie19_62 (DJ),

Start 52:

- Found in 1 of 629 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Ponzi_9 (singleton),

Start 55:

- Found in 24 of 629 (3.8%) of genes in pham
- Manual Annotations of this start: 15 of 596
- Called 70.8% of time when present
- Phage (with cluster) where this start called: Artorias_65 (DJ), Captrips_64 (DJ), Cappybara_65 (DJ), Conley_64 (DJ), Dancer_65 (DJ), Football_67 (DJ), FortCran_65 (DJ), Gravy_64 (DJ), JulesRay_65 (DJ), Kerry_64 (DJ), NoPickles_64 (DJ), Perkunas_67 (DJ), Petite_67 (DJ), SweetCrkHerbs_67 (DJ), Talon44_67 (DJ), Tanis_65 (DJ), Trufflozitus_66 (DJ),

Start 63:

- Found in 52 of 629 (8.3%) of genes in pham
- Manual Annotations of this start: 31 of 596
- Called 69.2% of time when present
- Phage (with cluster) where this start called: Aloe25_65 (DJ), Arataki_63 (DJ), BetterYeti_64 (DJ), Blanky_64 (DJ), BluerMoon_62 (DJ), CWormy_63 (DJ), Chickenjars_62 (DJ), Citrus_63 (DJ), Crocheter_64 (DJ), Demure_63 (DJ), Dialga_64 (DJ), Eddiemania_66 (DJ), Fazel_65 (DJ), Figliar_62 (DJ), GreenWeasel_36 (BD4), Gusicorn_65 (DJ), Kenosha_63 (DJ), Luthien_65 (DJ), MajinBuu_64 (DJ), Mossy_67 (DJ), Mysticmoon_65 (DJ), Nadmeg_65 (DJ), Nithya_64 (DJ), OlgasClover_65 (DJ), PestoPenguin_66 (DJ), Phepper_65 (DJ), Pherobrine_66 (DJ), Rickmore_61 (DJ), Runhaar_64 (DJ), Schwartz33_66 (DJ), Secretariat_64 (DJ), ShaggyRogers_64 (DJ), TenaciousP_64 (DJ), Tonaltzin_62 (DJ), Zeph_66 (DJ), phiHau3_36 (BD4),

Start 66:

- Found in 47 of 629 (7.5%) of genes in pham
- Manual Annotations of this start: 13 of 596
- Called 31.9% of time when present
- Phage (with cluster) where this start called: Aflac_63 (DJ), AlainaMarie_63 (DJ), ArtetaBall_64 (DJ), Burley_64 (DJ), Duffington_62 (DJ), EndAve_65 (DJ), Glintora_65 (DJ), GodonK_189 (DK), Hortihabitatio_66 (DJ), Hydrus_66 (DJ), Madvan_64 (DJ), OhMyWard_63 (DJ), Phendrix_177 (DK), Untouchable_66 (DJ), Vardy_63 (DJ),

Start 70:

- Found in 84 of 629 (13.4%) of genes in pham
- Manual Annotations of this start: 13 of 596
- Called 15.5% of time when present
- Phage (with cluster) where this start called: ACFishhook_40 (A3), Beauxregard13_41 (A3), ClownCar_40 (A3), GingkoMaracino_41 (A3), Grub_41 (A3), Grum1_41 (A3), Hercules11_41 (A3), MoneyMay_41 (A3), Sabia_41 (A3), Snickers_41 (A3), SoYo_41 (A3), Watson_41 (A3), Wooldri_43 (A3),

Start 71:

- Found in 37 of 629 (5.9%) of genes in pham
- Manual Annotations of this start: 36 of 596
- Called 100.0% 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 1 of 629 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 100.0% of time when present
- Phage (with cluster) where this start called: UnionJack_33 (A5),

Start 76:

- Found in 5 of 629 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Lizz_71 (BN), SassyC_76 (BN),

Start 78:

- Found in 6 of 629 (1.0%) of genes in pham
- Manual Annotations of this start: 5 of 596
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Gill_65 (DJ), Magel_66 (DJ), Odesza_64 (DJ), Roney_65 (DJ), Rowa_49 (BL),

Start 79:

- Found in 2 of 629 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PerroGrande22_83 (CC), Poco6_076 (CC),

Start 80:

- Found in 27 of 629 (4.3%) of genes in pham
- Manual Annotations of this start: 24 of 596
- Called 92.6% of time when present
- Phage (with cluster) where this start called: Audell_43 (FR), Daudau_35 (BD2), EhyElimayoE_215 (BM), Frankenweenie_230 (BM), GMA2_70 (DS), Hank144_36 (BD2), Issmi_36 (BD2), Jevington_37 (BD2), JustBecause_213 (BM), Kela_211 (BM), Kradal_214 (BM), LastNadiia_46 (FR), Makima_44 (FR), Marav_38 (BD2), Mireles_47 (FR), Nirvana_223 (BM), Pablito_34 (BD2), Quantum_211 (BM), RemusLoopin_46 (BB2), Samora_48 (BB1), Sarkar_212 (BM), Satis_212 (BM), TMaxx_45 (FR), TripleC_45 (FR), Vash_45 (BB1),

Start 81:

- Found in 49 of 629 (7.8%) of genes in pham
- Manual Annotations of this start: 39 of 596
- Called 83.7% of time when present
- Phage (with cluster) where this start called: AgentM_32 (A5), Amethyst_34 (BD2), Andris_34 (BD2), Aragog_32 (A5), Archetta_32 (A5), Axiom_35 (BD2), Bluefalcon_31 (A5), Bonamassa_32 (A5), Conspiracy_32 (A5), Coog_32 (A5), Cuco_32 (A5), Diane_34 (BD2), Discoknowium_32 (A5), Dublin_31 (A5), ELB20_33 (BD2), ForGetIt_32 (A5), George_31 (A5), Haizum_36 (BD2), HuhtaEnerson15_32 (A5),

Jovo_32 (A5), Lev2_32 (A5), LittleCherry_32 (A5), Loofah_35 (BD2), MarysWell_31 (A5), Midas2_32 (A5), Milcery_32 (A5), Nanodon_36 (BD1), Nishikigoi_36 (BD2), Paedore_34 (BD2), Phlorence_32 (A5), PickleBack_32 (A5), Prinashe11_33 (A5), R4_35 (BD2), Superstar_38 (BD2), Tarynearal_31 (A5), Tefunt_36 (BD2), Theia_30 (A5), Tiger_32 (A5), Triumph_36 (BD2), Twigg_32 (A5), Zemlya_36 (BD1),

Start 82:

- Found in 53 of 629 (8.4%) of genes in pham
- Manual Annotations of this start: 52 of 596
- Called 98.1% of time when present
- Phage (with cluster) where this start called: AN3_37 (A2), AN9_40 (A2), ANI8_40 (A2), Airmid_33 (A5), BABullseye_40 (A6), Benedict_33 (A5), BennyP_40 (A6), BlessJoy_40 (A6), Blinn1_41 (A6), Blue7_41 (A6), C3_35 (A2), Chadwick_34 (A5), Chartreuse_40 (A6), Cookiedough_40 (A6), D29_36.1 (A2), D32_40 (A2), DBQu4n_40 (A2), Dorothea_40 (A6), Duplo_40 (A2), ElTiger69_33 (A5), Gladiator_40 (A6), Gruunaga_40 (A6), Hammer_40 (A6), Helmet_41 (A6), Hoot_40 (A6), Indra_42 (A6), Isiphiwo_40 (A6), Jabiru_33 (A5), JewelBug_41 (A6), Jordennis_40 (A6), Kazan_41 (A6), Kerberos_40 (A2), Koko_40 (A6), McFly_40 (A6), Naca_33 (A5), Naji_40 (A2), Neeharika16_40 (A6), Newrala_40 (A6), PetterN_34 (A5), Polyphemus_40 (A6), Pomar16_40 (A2), Rifter_40 (A6), Roksolana_41 (A6), Scorpia_34 (A5), SmellyB_40 (A6), StarStuff_40 (A2), SuperAwesome_40 (A6), Temprado_40 (A6), Tomathan_40 (A2), VA6_37 (A2), VC3_40 (A2), VohminGhazi_40 (A6),

Start 83:

- Found in 10 of 629 (1.6%) of genes in pham
- Manual Annotations of this start: 5 of 596
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_172 (DS), Boopy_175 (DS), Ibantik_13 (JN), Mareelih_173 (DS), RunningOnE_13 (JN),

Start 84:

- Found in 89 of 629 (14.1%) of genes in pham
- Manual Annotations of this start: 76 of 596
- Called 85.4% of time when present
- Phage (with cluster) where this start called: Aglet_41 (A3), AgronaGT15_40 (A3), Anubis_43 (A3), AugsMagnumOpus_43 (A3), BreSam8_41 (A3), BuzzBuzz_39 (A3), Bxz2_38 (A3), Calvinny_40 (A3), Cullens_41 (A3), DaHudson_41 (A3), Daishi_39 (A3), Dieselweasel_41 (A3), EpicPhail_41 (A3), Farber_41 (A3), Fernando_41 (A3), Gemma_40 (A3), Goby_34 (BD1), Godpower_35 (BD1), Grif_41 (A3), Groupthink_41 (A3), GtownJaz_41 (A3), HashRod_41 (A3), HaveUMetTed_41 (A3), Heliosoles_40 (A3), JHC117_41 (A3), JenCasNa_41 (A3), JeppNRM_41 (A3), Jobu08_40 (A3), KADY_41 (A3), Kalb97_41 (A3), Kalnoky_41 (A3), LBerry_41 (A3), LarryKay_40 (A3), Lika_34 (BD1), Lilith_41 (A3), Louie6_40 (A3), LugYA_43 (A3), MadMarie_41 (A3), Mainiac_41 (A3), Malinsilva_43 (A3), Manu_41 (A3), MarQuardt_41 (A3), Marie_41 (A3), Marius_41 (A3), Methuselah_39 (A3), Microwolf_41 (A3), Misomonster_42 (A3), MuchMore_43 (A3), OlanP_40 (A3), Ollie_41 (A3), P28Green_41 (A3), PGHhamlin_43 (A3), Pawn_40 (A3), Pembroke_41 (A3), Penny1_41 (A3), PhishRPhriends_39 (A3), Phoebe_41 (A3), Phoxy_40 (A3), Phranny_41 (A3), PotatoSplit_42 (A3), PurpleHaze_40 (A3), Reba_41 (A3), Rummer_40 (A3), Sabinator_40 (A3), SoilDragon_40 (A3), Soshari_42 (A3), Spike509_40 (A3), Stagni_41 (A3), StepMih_41 (A3), Sujidade_35 (BD1), Taurus_41 (A3), Tiffany_41 (A3), TinyPebbles_40 (A3), Toma_34 (BD1), Vix_41 (A3), Zetzy_40 (A3),

Start 85:

- Found in 15 of 629 (2.4%) of genes in pham
- Manual Annotations of this start: 10 of 596
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Margo_35 (A3), Noella_35 (A3), Norbert_34 (A3), Panamaxus_34 (A3), QuinnKiro_34 (A3), ResDef_35 (A3), Texage_34 (A3), Timshel_36 (A7), Todacoro_35 (A3), Veracruz_34 (A3),

Start 86:

- Found in 50 of 629 (7.9%) of genes in pham
- Manual Annotations of this start: 45 of 596
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aphelion_145 (CQ1), Artemis2UCLA_40 (A6), B1_34 (A3), BabyRay_36 (A3), BlueBird_37 (A3), Bugatti_36 (A3), Clammy_36 (A3), CloudWang3_40 (A6), Danforth_31 (A8), DropBear_36 (A3), Expelliarmus_31 (A8), Fred313_36 (A3), Giroux_37 (A3), Heathen_36 (A3), HelDan_36 (A3), Hexamo_40 (A6), Idleandcovert_36 (A3), Isca_36 (A3), JF2_36 (A3), JF4_36 (A3), Jeffabunny_40 (A6), Kachowdy_36 (A3), Kipper29_40 (A6), Lilbunny_39 (A6), MA5_36 (A3), MK4_36 (A3), Marchesa_36 (A3), NearlyHeadless_32 (A8), OneUp_130 (CQ2), Phantastic_36 (A3), Phillis_32 (A8), PhinkBoden_144 (CQ1), Pistachio_37 (A3), Priamo_41 (A6), Puppy_37 (A3), Roary_32 (A8), Rockstar_36 (A3), Roimos_36 (A3), SaturnRing_36 (A3), Scout_36 (A3), Smoothie_147 (CQ1), Stephig9_32 (A8), TNguyen7_36 (A3), ToneTone_37 (A6), Tucker_40 (A6), Wiks_39 (A6), WunderPhul_40 (A6), Yokurt_40 (A6), Zaka_40 (A6), Zulu_40 (A6),

Start 87:

- Found in 42 of 629 (6.7%) of genes in pham
- Manual Annotations of this start: 39 of 596
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Alsaber_36 (BD3), Alvy_37 (BD2), Amela_35 (BD3), Animus_34 (BD2), BartholomewSD_37 (BD2), Bowden_35 (BD2), Brataylor_37 (BD1), Caelum_36 (BD2), Celery_38 (BD3), Celeste_35 (BD1), Conan_36 (BD3), Danzina_36 (BD1), Dattran_36 (BD1), Dexers_34 (BD3), ElGato_36 (BD3), GirlDinner_34 (BD2), Janus_35 (BD2), Jhitchelle_34 (BD3), Kaine_35 (BD3), Katalie_34 (BD1), Lorelei_35 (BD1), Nabi_35 (BD1), Omar_37 (BD2), Pavo_36 (BD3), Provolone_36 (BD3), Rana_35 (BD1), RedBear_35 (BD1), Saftant_35 (BD3), South40_34 (BD1), Speedwell_40 (BD3), SqueakyClean_34 (BD2), Sudan_35 (BD3), SunkenRoot_35 (BD3), Thestral_36 (BD2), TinaBelcher_35 (BD2), TrvxScott_34 (BD2), Vanseggelen_40 (BD3), Verse_35 (BD3), Yosif_37 (BD3), Zainub_37 (BD2), ZamZam_35 (BD3),

Start 88:

- Found in 15 of 629 (2.4%) of genes in pham
- Manual Annotations of this start: 6 of 596
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Caviar_35 (A3), DroogsArmy_36 (A7), Hookmount_35 (A3), Lambert1_35 (A3), Pocahontas_35 (A3), Popcicle_35 (A3),

Start 89:

- Found in 150 of 629 (23.8%) of genes in pham
- Manual Annotations of this start: 145 of 596
- Called 99.3% of time when present

- Phage (with cluster) where this start called: AbbysRanger_35 (A4), Abdiel_35 (A4), Albee_35 (A4), Alberto7_36 (A4), Annyong_35 (A4), Anthony_36 (A20), Arturo_34 (A4), Avle17_35 (A4), Baby16_35 (A4), Backyardigan_35 (A4), Badger_35 (A4), BangNhom_36 (A4), Bartimeaus_35 (A4), BellusTerra_36 (A4), Blackmoor_35 (A4), Bombshell_35 (A4), Broseidon_35 (A4), Bruiser_34 (A4), BubbleTrouble_35 (A4), Burger_34 (A4), Caelakin_35 (A4), Camperdownii_34 (A4), CentreCat_35 (A4), Cerulean_37 (A4), ChampagnePapi_37 (A4), Chaph_35 (A4), Cici_35 (A4), Cindaradix_34 (A4), Cintron_35 (A4), Citius_35 (A4), Clarenza_35 (A4), Cocoaberry_35 (A4), Commander_36 (A4), Connomayer_35 (A4), Datway_35 (A4), Deano_35 (A4), Dhanush_35 (A4), DirtyDunning_35 (A4), DontArgue_35 (A10), Druantia_35 (A4), DustyMartin_39 (A10), Eagle_35 (A4), Eapen_35 (A4), Eris_34 (A4), Eros_35 (A4), Eurydice_36 (A4), Florean_35 (A4), Flux_35 (A4), Funston_35 (A4), Gadost_35 (A4), Ghoulyboy_32 (A5), HINder_35 (A7), HamSlice_34 (A4), Happiness_35 (A4), Holli_35 (A4), Houdini22_35 (A4), Huxley_35 (A4), ICleared_35 (A4), Iceman_36 (A4), Iracema64_36 (A4), Jaykayelowell_35 (A4), JetBlade_35 (A4), JoongJeon_35 (A4), KFPoly_35 (A4), Katalie136_35 (A4), Kimona_33 (A19), Kingmustik0402_35 (A4), Koan_35 (A4), Koreni_34 (A4), Kratark_35 (A4), Kremtemulon_35 (A4), Kyee_35 (A4), LHTSCC_37 (A4), LappelDuVide_35 (A4), Lemur_35 (A4), LittleB_35 (A4), LittleGuy_35 (A4), LochMonster_35 (A4), Lorenzo_35 (A4), Lunsford_36 (A4), Maverick_35 (A4), Maxo_36 (A4), Mayonnaise_35 (A4), Mazhar510_35 (A4), Medusa_36 (A4), MeeZee_35 (A4), Melvin_37 (A4), Micasa_32 (A5), Millski_34 (A4), Miramae_35 (A4), Morpher26_35 (A4), Morrow_36 (A4), Mundrea_35 (A4), Nebs_36 (A4), Nemo27_35 (A4), Noelle_35 (A4), NorthStar_35 (A4), NotAPhaseMom_35 (A4), Nyxis_35 (A4), Obama12_37 (A4), Ohfah_36 (A4), Palestino_34 (A4), Peaches_35 (A4), Perplexer_35 (A4), PeterPeter_35 (A4), PetiteSangsue_35 (A4), Phacado_35 (A4), Felipe_36 (A4), Phighter1804_35 (A4), Phontbonne_35 (A4), Pipcraft_35 (A4), Polymorphads_36 (A4), Pumbaa_35 (A4), Relief_35 (A4), RhynO_36 (A10), Romney_35 (A4), Roosevelt_35 (A4), Rowdy_39 (A10), Ruin_35 (A4), Sabertooth_35 (A4), Scamp_35 (A4), SenorClean_35 (A4), Shaka_35 (A4), Shapes_39 (A10), SheldonCooper_37 (A4), Shygu2_35 (A4), Skipitt_35 (A4), Sparxx_36 (A4), Spino_35 (A4), Stasia_36 (A4), SteMason_35 (A4), Stink_36 (A4), Sultana_35 (A4), Swirley_32 (A5), SydNat_32 (A5), Taquarus_35 (A4), Thanksgivukkah_35 (A4), TinaFeyge_36 (A4), TiroTheta9_35 (A4), TroyPia_36 (A4), TygerBlood_35 (A4), Ulysses_34 (A4), Wander_35 (A4), Wilbur_35 (A4), Wile_35 (A4), Wizard007_35 (A4), Xena_35 (A4), YoSam321_35 (A4), Zolita_31 (A5),

Start 90:

- Found in 3 of 629 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 33.3% of time when present
- Phage (with cluster) where this start called: BroPlease_35 (BD4),

Start 91:

- Found in 15 of 629 (2.4%) of genes in pham
- Manual Annotations of this start: 10 of 596
- Called 80.0% of time when present
- Phage (with cluster) where this start called: AnnabelLee_43 (FR), ChipsNGuac_43 (FR), Cucurbita_145 (CQ1), Culver_146 (CQ1), Ezurina_42 (FR), Gerri43_43 (FR), Lilbooboo_46 (BB1), Lozinak_146 (CQ1), Roberts_43 (FR), Studio_45 (FR), TG1_40 (BB1), Toniann_146 (CQ1),

Start 92:

- Found in 11 of 629 (1.7%) of genes in pham
- Manual Annotations of this start: 9 of 596
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Fabian_51 (BF), HaugeAnator_54 (BF), Immanuel3_53 (BF), Olicious_54 (BF), Percastrophe_54 (BF), Romero_54 (BF), ToriToki_54 (BF), Treat_54 (BF), ZooBear_54 (BF),

Start 93:

- Found in 1 of 629 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RosePharie_55 (BF),

Start 94:

- Found in 3 of 629 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 596
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumquat_54 (BF), WRightOn_58 (BF), Zeigle_54 (BF),

Start 95:

- Found in 2 of 629 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 596
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Destructrice_53 (BF), Manuel_51 (BF),

Start 96:

- Found in 1 of 629 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spooks_13 (BT),

Start 97:

- Found in 3 of 629 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 596
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Rooney_71 (BN), Wentworth_71 (BN),

Start 98:

- Found in 58 of 629 (9.2%) of genes in pham
- Manual Annotations of this start: 1 of 596
- Called 3.4% of time when present
- Phage (with cluster) where this start called: Agamotto_44 (FR), Bugg_68 (DJ),

Start 100:

- Found in 4 of 629 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Virizion_76 (BN),

Start 101:

- Found in 33 of 629 (5.2%) of genes in pham
- Manual Annotations of this start: 3 of 596

- Called 15.2% of time when present
- Phage (with cluster) where this start called: Avazak_66 (DJ), Dennebes_58 (BF), Sixama_175 (DS), Tairn4Wing_67 (DJ), Vrykolakas_55 (BF),

Start 104:

- Found in 165 of 629 (26.2%) of genes in pham
- Manual Annotations of this start: 3 of 596
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Bimmel_13 (BT), Shawty_45 (BB1), Success_13 (BT), phiBT1_20 (BB1),

Summary by clusters:

There are 30 clusters represented in this pham: BF, DJ, DK, BL, BM, BN, FR, BT, JN, DS, A10, A19, BD4, A3, A2, BD1, A4, BD3, A6, A8, CQ1, BB2, BB1, A7, CC, BD2, CQ2, singleton, A5, A20,

Info for manual annotations of cluster A10:

- Start number 89 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A19:

- Start number 89 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 82 was manually annotated 15 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 89 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 70 was manually annotated 13 times for cluster A3.
- Start number 84 was manually annotated 71 times for cluster A3.
- Start number 85 was manually annotated 9 times for cluster A3.
- Start number 86 was manually annotated 21 times for cluster A3.
- Start number 88 was manually annotated 5 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 26 was manually annotated 1 time for cluster A4.
- Start number 89 was manually annotated 136 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 74 was manually annotated 1 time for cluster A5.
- Start number 81 was manually annotated 25 times for cluster A5.
- Start number 82 was manually annotated 8 times for cluster A5.
- Start number 89 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 82 was manually annotated 29 times for cluster A6.
- Start number 86 was manually annotated 14 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 85 was manually annotated 1 time for cluster A7.
- Start number 88 was manually annotated 1 time for cluster A7.

- Start number 89 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:

- Start number 86 was manually annotated 6 times for cluster A8.

Info for manual annotations of cluster BB1:

- Start number 80 was manually annotated 2 times for cluster BB1.
- Start number 91 was manually annotated 2 times for cluster BB1.
- Start number 104 was manually annotated 1 time for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 80 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BD1:

- Start number 71 was manually annotated 36 times for cluster BD1.
- Start number 81 was manually annotated 2 times for cluster BD1.
- Start number 84 was manually annotated 5 times for cluster BD1.
- Start number 87 was manually annotated 10 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 80 was manually annotated 6 times for cluster BD2.
- Start number 81 was manually annotated 12 times for cluster BD2.
- Start number 87 was manually annotated 13 times for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 87 was manually annotated 16 times for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 63 was manually annotated 2 times for cluster BD4.
- Start number 90 was manually annotated 1 time for cluster BD4.

Info for manual annotations of cluster BF:

- Start number 92 was manually annotated 9 times for cluster BF.
- Start number 93 was manually annotated 1 time for cluster BF.
- Start number 94 was manually annotated 3 times for cluster BF.
- Start number 95 was manually annotated 2 times for cluster BF.
- Start number 101 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster BL:

- Start number 78 was manually annotated 1 time for cluster BL.

Info for manual annotations of cluster BM:

- Start number 80 was manually annotated 9 times for cluster BM.

Info for manual annotations of cluster BN:

- Start number 76 was manually annotated 1 time for cluster BN.
- Start number 97 was manually annotated 2 times for cluster BN.

Info for manual annotations of cluster BT:

- Start number 96 was manually annotated 1 time for cluster BT.
- Start number 104 was manually annotated 2 times for cluster BT.

Info for manual annotations of cluster CC:

- Start number 79 was manually annotated 1 time for cluster CC.

Info for manual annotations of cluster CQ1:

- Start number 86 was manually annotated 3 times for cluster CQ1.
- Start number 91 was manually annotated 4 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 86 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DJ:

- Start number 33 was manually annotated 1 time for cluster DJ.
- Start number 55 was manually annotated 15 times for cluster DJ.
- Start number 63 was manually annotated 29 times for cluster DJ.
- Start number 66 was manually annotated 11 times for cluster DJ.
- Start number 78 was manually annotated 4 times for cluster DJ.
- Start number 101 was manually annotated 1 time for cluster DJ.

Info for manual annotations of cluster DK:

- Start number 66 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 83 was manually annotated 3 times for cluster DS.
- Start number 101 was manually annotated 1 time for cluster DS.

Info for manual annotations of cluster FR:

- Start number 80 was manually annotated 6 times for cluster FR.
- Start number 91 was manually annotated 4 times for cluster FR.
- Start number 98 was manually annotated 1 time for cluster FR.

Info for manual annotations of cluster JN:

- Start number 83 was manually annotated 2 times for cluster JN.

Gene Information:

Gene: ACFishhook_40 Start: 28503, Stop: 28093, Start Num: 70

Candidate Starts for ACFishhook_40:

(13, 28701), (Start: 70 @28503 has 13 MA's), (Start: 84 @28476 has 76 MA's), (Start: 104 @28431 has 3 MA's), (137, 28260), (139, 28248),

Gene: AN3_37 Start: 28097, Stop: 27681, Start Num: 82

Candidate Starts for AN3_37:

(7, 28388), (9, 28376), (Start: 82 @28097 has 52 MA's), (139, 27866), (169, 27734), (178, 27713), (186, 27695),

Gene: AN9_40 Start: 28082, Stop: 27666, Start Num: 82

Candidate Starts for AN9_40:

(8, 28370), (Start: 82 @28082 has 52 MA's), (139, 27851), (169, 27719), (178, 27698), (186, 27680),

Gene: ANI8_40 Start: 28082, Stop: 27666, Start Num: 82

Candidate Starts for ANI8_40:

(8, 28370), (Start: 82 @28082 has 52 MA's), (139, 27851), (169, 27719), (178, 27698), (186, 27680),

Gene: Aaronocolus_34 Start: 25685, Stop: 26173, Start Num: 71

Candidate Starts for Aaronocolus_34:

(47, 25637), (Start: 71 @25685 has 36 MA's), (103, 25757), (109, 25802), (127, 25904), (157, 26021), (195, 26141), (208, 26168),

Gene: AbbysRanger_35 Start: 27851, Stop: 27276, Start Num: 89

Candidate Starts for AbbysRanger_35:

(58, 27881), (Start: 89 @27851 has 145 MA's), (170, 27488), (185, 27452), (214, 27383), (217, 27338), (218, 27326),

Gene: Abdiel_35 Start: 27799, Stop: 27323, Start Num: 89

Candidate Starts for Abdiel_35:

(Start: 89 @27799 has 145 MA's), (Start: 104 @27754 has 3 MA's), (131, 27616), (165, 27451), (170, 27439), (198, 27379), (204, 27367),

Gene: Aflac_63 Start: 46335, Stop: 46781, Start Num: 66

Candidate Starts for Aflac_63:

(Start: 33 @46263 has 1 MA's), (41, 46296), (Start: 63 @46326 has 31 MA's), (Start: 66 @46335 has 13 MA's), (111, 46467), (127, 46560), (152, 46668), (162, 46719),

Gene: Agamotto_44 Start: 32971, Stop: 32543, Start Num: 98

Candidate Starts for Agamotto_44:

(Start: 80 @33010 has 24 MA's), (Start: 98 @32971 has 1 MA's), (Start: 104 @32953 has 3 MA's), (109, 32914), (159, 32683), (169, 32641),

Gene: AgentM_32 Start: 27051, Stop: 26542, Start Num: 81

Candidate Starts for AgentM_32:

(Start: 81 @27051 has 39 MA's),

Gene: Aglet_41 Start: 28577, Stop: 28194, Start Num: 84

Candidate Starts for Aglet_41:

(Start: 70 @28604 has 13 MA's), (Start: 84 @28577 has 76 MA's), (Start: 104 @28532 has 3 MA's), (137, 28361), (139, 28349),

Gene: AgronaGT15_40 Start: 28395, Stop: 28012, Start Num: 84

Candidate Starts for AgronaGT15_40:

(Start: 70 @28422 has 13 MA's), (Start: 84 @28395 has 76 MA's), (Start: 98 @28368 has 1 MA's), (Start: 104 @28350 has 3 MA's), (137, 28179), (139, 28167),

Gene: Airmid_33 Start: 26678, Stop: 26169, Start Num: 82

Candidate Starts for Airmid_33:

(Start: 82 @26678 has 52 MA's),

Gene: AlainaMarie_63 Start: 46290, Stop: 46832, Start Num: 66

Candidate Starts for AlainaMarie_63:

(36, 46224), (Start: 63 @46281 has 31 MA's), (Start: 66 @46290 has 13 MA's), (111, 46422), (124, 46488), (127, 46515), (140, 46578), (152, 46623), (173, 46716),

Gene: Albee_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Albee_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Alberto7_36 Start: 28144, Stop: 27569, Start Num: 89

Candidate Starts for Alberto7_36:

(Start: 89 @28144 has 145 MA's), (170, 27781), (185, 27745), (214, 27676), (217, 27631),

Gene: Aloe25_65 Start: 46391, Stop: 46861, Start Num: 63

Candidate Starts for Aloe25_65:

(Start: 63 @46391 has 31 MA's), (Start: 66 @46400 has 13 MA's), (111, 46529), (127, 46622), (152, 46730), (173, 46823),

Gene: Alsaber_36 Start: 27554, Stop: 27958, Start Num: 87

Candidate Starts for Alsaber_36:

(Start: 87 @27554 has 39 MA's), (106, 27608), (109, 27641), (116, 27674), (169, 27935), (171, 27941),

Gene: Alvy_37 Start: 27037, Stop: 27510, Start Num: 87

Candidate Starts for Alvy_37:

(Start: 87 @27037 has 39 MA's), (Start: 104 @27082 has 3 MA's), (106, 27091), (108, 27115), (116, 27157), (127, 27226), (195, 27478), (201, 27493),

Gene: Amela_35 Start: 28386, Stop: 28790, Start Num: 87

Candidate Starts for Amela_35:

(49, 28323), (Start: 87 @28386 has 39 MA's), (Start: 104 @28431 has 3 MA's), (106, 28440), (108, 28464), (119, 28524), (157, 28707), (169, 28767), (171, 28773),

Gene: Amethyst_34 Start: 26390, Stop: 26875, Start Num: 81

Candidate Starts for Amethyst_34:

(Start: 81 @26390 has 39 MA's), (108, 26474), (111, 26489), (153, 26705), (195, 26843), (201, 26858),

Gene: Andris_34 Start: 26452, Stop: 26937, Start Num: 81

Candidate Starts for Andris_34:

(Start: 81 @26452 has 39 MA's), (Start: 104 @26503 has 3 MA's), (108, 26536), (111, 26551), (114, 26575), (121, 26608), (145, 26740), (192, 26896), (195, 26905), (201, 26920),

Gene: Animus_34 Start: 26897, Stop: 27370, Start Num: 87

Candidate Starts for Animus_34:

(Start: 87 @26897 has 39 MA's), (Start: 104 @26942 has 3 MA's), (106, 26951), (108, 26975), (116, 27017), (142, 27167), (195, 27338), (201, 27353),

Gene: AnnabelLee_43 Start: 29937, Stop: 29476, Start Num: 91

Candidate Starts for AnnabelLee_43:

(Start: 91 @29937 has 10 MA's), (Start: 98 @29910 has 1 MA's), (113, 29829), (126, 29769), (134, 29745), (159, 29622),

Gene: Annyong_35 Start: 27805, Stop: 27209, Start Num: 89

Candidate Starts for Annyong_35:

(Start: 89 @27805 has 145 MA's), (169, 27445), (170, 27442), (185, 27406), (213, 27340), (214, 27337), (217, 27292), (218, 27280),

Gene: Anthony_36 Start: 26453, Stop: 25938, Start Num: 89

Candidate Starts for Anthony_36:

(Start: 89 @26453 has 145 MA's), (144, 26195), (169, 26093), (170, 26090), (176, 26075), (193, 26036), (209, 26009),

Gene: Anubis_43 Start: 28462, Stop: 28079, Start Num: 84
Candidate Starts for Anubis_43:
(Start: 70 @28489 has 13 MA's), (Start: 84 @28462 has 76 MA's), (Start: 104 @28417 has 3 MA's),
(137, 28246), (139, 28234),

Gene: Aphelion_145 Start: 79977, Stop: 80369, Start Num: 86
Candidate Starts for Aphelion_145:
(Start: 86 @79977 has 45 MA's), (120, 80118), (163, 80310), (177, 80358),

Gene: Aragog_32 Start: 27081, Stop: 26572, Start Num: 81
Candidate Starts for Aragog_32:
(Start: 81 @27081 has 39 MA's),

Gene: Arataki_63 Start: 45961, Stop: 46422, Start Num: 63
Candidate Starts for Arataki_63:
(36, 45904), (Start: 63 @45961 has 31 MA's), (Start: 66 @45970 has 13 MA's), (111, 46102), (124, 46168), (127, 46195), (140, 46258), (152, 46303),

Gene: Archetta_32 Start: 27187, Stop: 26678, Start Num: 81
Candidate Starts for Archetta_32:
(Start: 81 @27187 has 39 MA's),

Gene: Artemis2UCLA_40 Start: 26288, Stop: 25899, Start Num: 86
Candidate Starts for Artemis2UCLA_40:
(Start: 86 @26288 has 45 MA's), (121, 26144), (132, 26099), (139, 26057), (143, 26030),

Gene: ArtetaBall_64 Start: 46607, Stop: 47059, Start Num: 66
Candidate Starts for ArtetaBall_64:
(36, 46541), (Start: 63 @46598 has 31 MA's), (Start: 66 @46607 has 13 MA's), (111, 46739), (124, 46805), (127, 46832), (140, 46895), (152, 46940),

Gene: Artorias_65 Start: 46494, Stop: 47009, Start Num: 55
Candidate Starts for Artorias_65:
(Start: 55 @46494 has 15 MA's), (Start: 98 @46578 has 1 MA's), (Start: 101 @46584 has 3 MA's),
(111, 46644), (114, 46665), (122, 46701), (127, 46737), (143, 46821), (170, 46929), (176, 46944),
(195, 46977), (196, 46980), (205, 47001),

Gene: Arturo_34 Start: 27863, Stop: 27384, Start Num: 89
Candidate Starts for Arturo_34:
(Start: 89 @27863 has 145 MA's), (163, 27530), (169, 27503),

Gene: Asten_34 Start: 26046, Stop: 26534, Start Num: 71
Candidate Starts for Asten_34:
(18, 25866), (24, 25902), (47, 25998), (Start: 71 @26046 has 36 MA's), (103, 26118), (108, 26154),
(118, 26211), (156, 26376), (157, 26382), (195, 26502), (208, 26529),

Gene: Audell_43 Start: 32606, Stop: 32139, Start Num: 80
Candidate Starts for Audell_43:
(Start: 80 @32606 has 24 MA's), (Start: 98 @32567 has 1 MA's), (Start: 104 @32549 has 3 MA's),
(109, 32510), (141, 32351), (159, 32279), (169, 32237),

Gene: AugsMagnumOpus_43 Start: 28568, Stop: 28185, Start Num: 84
Candidate Starts for AugsMagnumOpus_43:

(Start: 70 @28595 has 13 MA's), (Start: 84 @28568 has 76 MA's), (Start: 104 @28523 has 3 MA's),
(137, 28352), (139, 28340),

Gene: AvatarAhPeg_36 Start: 28482, Stop: 27874, Start Num: 26

Candidate Starts for AvatarAhPeg_36:

(Start: 26 @28482 has 1 MA's), (Start: 89 @28353 has 145 MA's), (169, 27993), (176, 27975), (190, 27942),

Gene: Avazak_66 Start: 46911, Stop: 47336, Start Num: 101

Candidate Starts for Avazak_66:

(Start: 55 @46821 has 15 MA's), (Start: 101 @46911 has 3 MA's), (111, 46971), (114, 46992), (122, 47028), (127, 47064), (143, 47148), (170, 47256), (195, 47304), (196, 47307), (205, 47328),

Gene: Avle17_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Avle17_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Axiom_35 Start: 26619, Stop: 27098, Start Num: 81

Candidate Starts for Axiom_35:

(Start: 63 @26583 has 31 MA's), (Start: 81 @26619 has 39 MA's), (103, 26670), (108, 26706), (109, 26715), (111, 26721), (113, 26739), (195, 27066), (201, 27081),

Gene: B1_34 Start: 27319, Stop: 26933, Start Num: 86

Candidate Starts for B1_34:

(Start: 86 @27319 has 45 MA's),

Gene: BABullseye_40 Start: 26694, Stop: 26302, Start Num: 82

Candidate Starts for BABullseye_40:

(Start: 82 @26694 has 52 MA's), (121, 26547), (132, 26502), (139, 26460), (143, 26433),

Gene: Baby16_35 Start: 27815, Stop: 27219, Start Num: 89

Candidate Starts for Baby16_35:

(Start: 89 @27815 has 145 MA's), (169, 27455), (170, 27452), (185, 27416), (213, 27350), (214, 27347), (217, 27302), (218, 27290),

Gene: BabyRay_36 Start: 27870, Stop: 27484, Start Num: 86

Candidate Starts for BabyRay_36:

(Start: 86 @27870 has 45 MA's), (135, 27672),

Gene: Backyardigan_35 Start: 27867, Stop: 27271, Start Num: 89

Candidate Starts for Backyardigan_35:

(58, 27897), (Start: 89 @27867 has 145 MA's), (170, 27504), (185, 27468), (214, 27399), (217, 27354), (218, 27342),

Gene: Badger_35 Start: 27835, Stop: 27260, Start Num: 89

Candidate Starts for Badger_35:

(58, 27865), (Start: 89 @27835 has 145 MA's), (170, 27472), (185, 27436), (214, 27367), (217, 27322), (218, 27310),

Gene: BangNhom_36 Start: 28100, Stop: 27660, Start Num: 89

Candidate Starts for BangNhom_36:

(Start: 89 @28100 has 145 MA's), (169, 27740), (170, 27737),

Gene: BarryBee_37 Start: 26056, Stop: 26544, Start Num: 71

Candidate Starts for BarryBee_37:

(18, 25876), (24, 25912), (47, 26008), (Start: 71 @26056 has 36 MA's), (103, 26128), (108, 26164), (109, 26173), (118, 26221), (156, 26386), (157, 26392), (195, 26512), (208, 26539),

Gene: BartholomewSD_37 Start: 27037, Stop: 27510, Start Num: 87

Candidate Starts for BartholomewSD_37:

(Start: 87 @27037 has 39 MA's), (Start: 104 @27082 has 3 MA's), (106, 27091), (108, 27115), (116, 27157), (127, 27226), (195, 27478), (201, 27493),

Gene: Bartimeaus_35 Start: 27806, Stop: 27210, Start Num: 89

Candidate Starts for Bartimeaus_35:

(Start: 89 @27806 has 145 MA's), (169, 27446), (170, 27443), (185, 27407), (213, 27341), (214, 27338), (217, 27293), (218, 27281),

Gene: BeardedLady_35 Start: 25938, Stop: 26426, Start Num: 71

Candidate Starts for BeardedLady_35:

(Start: 71 @25938 has 36 MA's), (103, 26010), (109, 26055), (127, 26157), (157, 26274), (195, 26394), (208, 26421),

Gene: Beauxregard13_41 Start: 28603, Stop: 28193, Start Num: 70

Candidate Starts for Beauxregard13_41:

(Start: 70 @28603 has 13 MA's), (Start: 84 @28576 has 76 MA's), (Start: 104 @28531 has 3 MA's), (137, 28360), (139, 28348),

Gene: BellusTerra_36 Start: 27799, Stop: 27323, Start Num: 89

Candidate Starts for BellusTerra_36:

(Start: 89 @27799 has 145 MA's), (Start: 104 @27754 has 3 MA's), (131, 27616), (165, 27451), (170, 27439), (198, 27379), (204, 27367),

Gene: Benedict_33 Start: 26684, Stop: 26172, Start Num: 82

Candidate Starts for Benedict_33:

(Start: 82 @26684 has 52 MA's),

Gene: BennyP_40 Start: 26616, Stop: 26224, Start Num: 82

Candidate Starts for BennyP_40:

(Start: 82 @26616 has 52 MA's), (121, 26469), (132, 26424), (139, 26382), (143, 26355),

Gene: BetterYeti_64 Start: 46390, Stop: 46860, Start Num: 63

Candidate Starts for BetterYeti_64:

(Start: 63 @46390 has 31 MA's), (Start: 66 @46399 has 13 MA's), (111, 46528), (127, 46621), (152, 46729), (173, 46822),

Gene: Bimmel_13 Start: 9210, Stop: 8830, Start Num: 104

Candidate Starts for Bimmel_13:

(50, 9318), (56, 9306), (Start: 104 @9210 has 3 MA's), (106, 9201), (107, 9189), (108, 9177), (114, 9141), (115, 9138), (132, 9054), (138, 9024), (157, 8952), (167, 8892), (169, 8889), (191, 8841),

Gene: Blackmoor_35 Start: 27806, Stop: 27210, Start Num: 89

Candidate Starts for Blackmoor_35:

(Start: 89 @27806 has 145 MA's), (169, 27446), (170, 27443), (185, 27407), (213, 27341), (214, 27338), (217, 27293), (218, 27281),

Gene: Blanky_64 Start: 47900, Stop: 48352, Start Num: 63

Candidate Starts for Blanky_64:

(36, 47843), (Start: 63 @47900 has 31 MA's), (Start: 66 @47909 has 13 MA's), (111, 48038), (124, 48104), (127, 48131), (152, 48239), (162, 48290),

Gene: BlessJoy_40 Start: 26611, Stop: 26219, Start Num: 82

Candidate Starts for BlessJoy_40:

(Start: 82 @26611 has 52 MA's), (121, 26464), (132, 26419), (139, 26377), (143, 26350),

Gene: Blinn1_41 Start: 26683, Stop: 26291, Start Num: 82

Candidate Starts for Blinn1_41:

(Start: 82 @26683 has 52 MA's), (121, 26536), (132, 26491), (139, 26449), (143, 26422),

Gene: Blue7_41 Start: 26619, Stop: 26230, Start Num: 82

Candidate Starts for Blue7_41:

(Start: 82 @26619 has 52 MA's), (139, 26388), (143, 26361), (169, 26256),

Gene: BlueBird_37 Start: 27799, Stop: 27413, Start Num: 86

Candidate Starts for BlueBird_37:

(Start: 86 @27799 has 45 MA's), (135, 27601),

Gene: BlueNGold_172 Start: 101916, Stop: 101413, Start Num: 83

Candidate Starts for BlueNGold_172:

(Start: 83 @101916 has 5 MA's), (144, 101640), (152, 101619), (157, 101598), (194, 101478), (208, 101448),

Gene: Bluefalcon_31 Start: 27140, Stop: 26631, Start Num: 81

Candidate Starts for Bluefalcon_31:

(Start: 81 @27140 has 39 MA's),

Gene: BluerMoon_62 Start: 46364, Stop: 46819, Start Num: 63

Candidate Starts for BluerMoon_62:

(Start: 63 @46364 has 31 MA's), (Start: 66 @46373 has 13 MA's), (111, 46505), (127, 46598), (152, 46706), (162, 46757),

Gene: Bombshell_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Bombshell_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Bonamassa_32 Start: 26981, Stop: 26472, Start Num: 81

Candidate Starts for Bonamassa_32:

(Start: 81 @26981 has 39 MA's),

Gene: Boopy_175 Start: 101927, Stop: 101424, Start Num: 83

Candidate Starts for Boopy_175:

(Start: 83 @101927 has 5 MA's), (144, 101651), (152, 101630), (157, 101609), (194, 101489), (208, 101459),

Gene: Bovely_34 Start: 25691, Stop: 26179, Start Num: 71

Candidate Starts for Bovely_34:

(47, 25643), (Start: 71 @25691 has 36 MA's), (103, 25763), (109, 25808), (127, 25910), (157, 26027), (195, 26147), (208, 26174),

Gene: Bowden_35 Start: 26947, Stop: 27420, Start Num: 87

Candidate Starts for Bowden_35:

(Start: 87 @26947 has 39 MA's), (Start: 104 @26992 has 3 MA's), (106, 27001), (108, 27025), (116, 27067), (127, 27136), (195, 27388), (201, 27403),

Gene: Brataylor_37 Start: 27039, Stop: 27515, Start Num: 87

Candidate Starts for Brataylor_37:

(47, 26973), (Start: 81 @27033 has 39 MA's), (Start: 87 @27039 has 39 MA's), (108, 27117), (111, 27132), (146, 27327), (170, 27426), (195, 27483), (201, 27498), (208, 27510),

Gene: BreSam8_41 Start: 28569, Stop: 28186, Start Num: 84

Candidate Starts for BreSam8_41:

(Start: 70 @28596 has 13 MA's), (Start: 84 @28569 has 76 MA's), (Start: 104 @28524 has 3 MA's), (137, 28353), (139, 28341),

Gene: BroPlease_35 Start: 26228, Stop: 26704, Start Num: 90

Candidate Starts for BroPlease_35:

(Start: 90 @26228 has 1 MA's), (Start: 104 @26273 has 3 MA's), (108, 26306), (109, 26315), (113, 26339), (156, 26543), (195, 26672),

Gene: Broseidon_35 Start: 27806, Stop: 27210, Start Num: 89

Candidate Starts for Broseidon_35:

(Start: 89 @27806 has 145 MA's), (169, 27446), (170, 27443), (185, 27407), (213, 27341), (214, 27338), (217, 27293), (218, 27281),

Gene: Bruiser_34 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Bruiser_34:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: BryanRecycles_35 Start: 26042, Stop: 26530, Start Num: 71

Candidate Starts for BryanRecycles_35:

(31, 25937), (47, 25994), (Start: 71 @26042 has 36 MA's), (103, 26114), (109, 26159), (127, 26261), (157, 26378), (195, 26498), (208, 26525),

Gene: BubbleTrouble_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for BubbleTrouble_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Bugatti_36 Start: 27799, Stop: 27413, Start Num: 86

Candidate Starts for Bugatti_36:

(Start: 86 @27799 has 45 MA's), (135, 27601),

Gene: Bugg_68 Start: 46623, Stop: 47054, Start Num: 98

Candidate Starts for Bugg_68:

(Start: 55 @46539 has 15 MA's), (Start: 98 @46623 has 1 MA's), (Start: 101 @46629 has 3 MA's), (111, 46689), (114, 46710), (122, 46746), (127, 46782), (143, 46866), (170, 46974), (176, 46989), (195, 47022), (196, 47025), (205, 47046),

Gene: Burger_34 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Burger_34:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Burley_64 Start: 46068, Stop: 46514, Start Num: 66

Candidate Starts for Burley_64:

(36, 46002), (45, 46038), (Start: 63 @46059 has 31 MA's), (Start: 66 @46068 has 13 MA's), (111, 46197), (127, 46290), (152, 46398), (162, 46449),

Gene: BuzzBuzz_39 Start: 28574, Stop: 28191, Start Num: 84

Candidate Starts for BuzzBuzz_39:

(Start: 70 @28601 has 13 MA's), (Start: 84 @28574 has 76 MA's), (Start: 98 @28547 has 1 MA's), (Start: 104 @28529 has 3 MA's), (137, 28358), (139, 28346),

Gene: Bxz2_38 Start: 28581, Stop: 28198, Start Num: 84

Candidate Starts for Bxz2_38:

(Start: 70 @28608 has 13 MA's), (Start: 84 @28581 has 76 MA's), (Start: 98 @28554 has 1 MA's), (Start: 104 @28536 has 3 MA's), (137, 28365), (139, 28353),

Gene: C3_35 Start: 28082, Stop: 27666, Start Num: 82

Candidate Starts for C3_35:

(8, 28370), (Start: 82 @28082 has 52 MA's), (139, 27851), (169, 27719), (178, 27698), (186, 27680),

Gene: CWormy_63 Start: 46012, Stop: 46473, Start Num: 63

Candidate Starts for CWormy_63:

(36, 45955), (Start: 63 @46012 has 31 MA's), (Start: 66 @46021 has 13 MA's), (111, 46153), (124, 46219), (127, 46246), (140, 46309), (152, 46354),

Gene: Caelakin_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Caelakin_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Caelum_36 Start: 26653, Stop: 27126, Start Num: 87

Candidate Starts for Caelum_36:

(Start: 87 @26653 has 39 MA's), (Start: 104 @26698 has 3 MA's), (106, 26707), (108, 26731), (109, 26740), (116, 26773), (142, 26923), (156, 26968), (195, 27094), (199, 27103), (201, 27109),

Gene: Calvinny_40 Start: 28401, Stop: 28018, Start Num: 84

Candidate Starts for Calvinny_40:

(13, 28629), (Start: 70 @28428 has 13 MA's), (Start: 84 @28401 has 76 MA's), (Start: 104 @28356 has 3 MA's), (137, 28185), (139, 28173),

Gene: Camperdownii_34 Start: 27498, Stop: 26902, Start Num: 89

Candidate Starts for Camperdownii_34:

(Start: 89 @27498 has 145 MA's), (169, 27138), (170, 27135), (175, 27123), (185, 27099), (214, 27030), (217, 26985), (218, 26973),

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

Candidate Starts for Captrips_64:

(Start: 55 @45969 has 15 MA's), (Start: 98 @46053 has 1 MA's), (Start: 101 @46059 has 3 MA's), (111, 46119), (114, 46140), (122, 46176), (127, 46212), (143, 46296), (170, 46404), (195, 46452),

(196, 46455), (205, 46476),

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

Candidate Starts for Capybara_65:

(Start: 55 @46300 has 15 MA's), (Start: 98 @46384 has 1 MA's), (Start: 101 @46390 has 3 MA's), (111, 46450), (114, 46471), (122, 46507), (127, 46543), (143, 46627), (170, 46735), (176, 46750), (195, 46783), (196, 46786), (205, 46807),

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

Candidate Starts for Caviar_35:

(Start: 85 @27812 has 10 MA's), (Start: 88 @27809 has 6 MA's), (Start: 104 @27764 has 3 MA's), (131, 27626), (172, 27449),

Gene: Celery_38 Start: 27479, Stop: 27883, Start Num: 87

Candidate Starts for Celery_38:

(Start: 87 @27479 has 39 MA's), (Start: 104 @27524 has 3 MA's), (106, 27533), (108, 27557), (109, 27566), (116, 27599), (157, 27800), (169, 27860), (171, 27866),

Gene: Celeste_35 Start: 26508, Stop: 26984, Start Num: 87

Candidate Starts for Celeste_35:

(47, 26442), (Start: 81 @26502 has 39 MA's), (Start: 87 @26508 has 39 MA's), (108, 26586), (111, 26601), (146, 26796), (170, 26895), (195, 26952),

Gene: CentreCat_35 Start: 27807, Stop: 27211, Start Num: 89

Candidate Starts for CentreCat_35:

(Start: 89 @27807 has 145 MA's), (169, 27447), (170, 27444), (185, 27408), (213, 27342), (214, 27339), (217, 27294), (218, 27282),

Gene: Cerulean_37 Start: 28101, Stop: 27661, Start Num: 89

Candidate Starts for Cerulean_37:

(Start: 89 @28101 has 145 MA's), (169, 27741), (170, 27738),

Gene: Chadwick_34 Start: 26587, Stop: 26075, Start Num: 82

Candidate Starts for Chadwick_34:

(Start: 82 @26587 has 52 MA's),

Gene: ChampagnePapi_37 Start: 28100, Stop: 27660, Start Num: 89

Candidate Starts for ChampagnePapi_37:

(Start: 89 @28100 has 145 MA's), (169, 27740), (170, 27737),

Gene: Chaph_35 Start: 27815, Stop: 27219, Start Num: 89

Candidate Starts for Chaph_35:

(Start: 89 @27815 has 145 MA's), (169, 27455), (170, 27452), (185, 27416), (213, 27350), (214, 27347), (217, 27302), (218, 27290),

Gene: Chartreuse_40 Start: 26563, Stop: 26171, Start Num: 82

Candidate Starts for Chartreuse_40:

(Start: 82 @26563 has 52 MA's), (121, 26416), (132, 26371), (139, 26329), (143, 26302),

Gene: Chikenjars_62 Start: 46297, Stop: 46848, Start Num: 63

Candidate Starts for Chikenjars_62:

(36, 46240), (Start: 63 @46297 has 31 MA's), (Start: 66 @46306 has 13 MA's), (111, 46438), (124, 46504), (127, 46531), (140, 46594), (152, 46639), (162, 46690), (173, 46732),

Gene: ChipsNGuac_43 Start: 29940, Stop: 29479, Start Num: 91

Candidate Starts for ChipsNGuac_43:

(Start: 91 @29940 has 10 MA's), (Start: 98 @29913 has 1 MA's), (113, 29832), (126, 29772), (134, 29748), (159, 29625),

Gene: Chucky_34 Start: 26060, Stop: 26548, Start Num: 71

Candidate Starts for Chucky_34:

(18, 25880), (24, 25916), (47, 26012), (Start: 71 @26060 has 36 MA's), (103, 26132), (108, 26168), (109, 26177), (118, 26225), (156, 26390), (157, 26396), (195, 26516), (208, 26543),

Gene: Cici_35 Start: 27852, Stop: 27256, Start Num: 89

Candidate Starts for Cici_35:

(58, 27882), (Start: 89 @27852 has 145 MA's), (170, 27489), (185, 27453), (213, 27387), (214, 27384), (217, 27339), (218, 27327),

Gene: Cindaradix_34 Start: 27606, Stop: 27010, Start Num: 89

Candidate Starts for Cindaradix_34:

(Start: 89 @27606 has 145 MA's), (Start: 104 @27561 has 3 MA's), (108, 27528), (128, 27432), (185, 27207), (214, 27138), (217, 27093), (218, 27081),

Gene: Cintron_35 Start: 27870, Stop: 27274, Start Num: 89

Candidate Starts for Cintron_35:

(Start: 89 @27870 has 145 MA's), (169, 27510), (170, 27507), (175, 27495), (185, 27471), (214, 27402), (217, 27357), (218, 27345),

Gene: Citius_35 Start: 27819, Stop: 27223, Start Num: 89

Candidate Starts for Citius_35:

(Start: 89 @27819 has 145 MA's), (169, 27459), (170, 27456), (185, 27420), (213, 27354), (214, 27351), (217, 27306), (218, 27294),

Gene: Citrus_63 Start: 46571, Stop: 47122, Start Num: 63

Candidate Starts for Citrus_63:

(36, 46514), (Start: 63 @46571 has 31 MA's), (Start: 66 @46580 has 13 MA's), (111, 46712), (124, 46778), (127, 46805), (140, 46868), (152, 46913), (173, 47006),

Gene: Clammy_36 Start: 27799, Stop: 27413, Start Num: 86

Candidate Starts for Clammy_36:

(Start: 86 @27799 has 45 MA's), (135, 27601),

Gene: Clarenza_35 Start: 27801, Stop: 27205, Start Num: 89

Candidate Starts for Clarenza_35:

(Start: 89 @27801 has 145 MA's), (169, 27441), (170, 27438), (185, 27402), (213, 27336), (214, 27333), (217, 27288), (218, 27276),

Gene: CloudWang3_40 Start: 26388, Stop: 25999, Start Num: 86

Candidate Starts for CloudWang3_40:

(Start: 86 @26388 has 45 MA's), (121, 26244), (132, 26199), (139, 26157), (143, 26130),

Gene: ClownCar_40 Start: 28420, Stop: 28010, Start Num: 70

Candidate Starts for ClownCar_40:

(Start: 70 @28420 has 13 MA's), (Start: 84 @28393 has 76 MA's), (Start: 104 @28348 has 3 MA's), (137, 28177), (139, 28165),

Gene: Cocoaberry_35 Start: 27808, Stop: 27212, Start Num: 89

Candidate Starts for Cocoaberry_35:

(Start: 89 @27808 has 145 MA's), (169, 27448), (170, 27445), (185, 27409), (213, 27343), (214, 27340), (217, 27295), (218, 27283),

Gene: Commander_36 Start: 27803, Stop: 27324, Start Num: 89

Candidate Starts for Commander_36:

(Start: 89 @27803 has 145 MA's), (165, 27452), (170, 27440), (198, 27380), (204, 27368),

Gene: Conan_36 Start: 27448, Stop: 27852, Start Num: 87

Candidate Starts for Conan_36:

(18, 27253), (24, 27289), (49, 27388), (Start: 87 @27448 has 39 MA's), (106, 27502), (109, 27535), (116, 27568), (169, 27829), (171, 27835),

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

Candidate Starts for Conley_64:

(14, 46869), (15, 46872), (16, 46899), (23, 46938), (29, 46974), (30, 46977), (32, 46989), (38, 47007), (Start: 55 @47055 has 15 MA's), (62, 47064), (Start: 101 @47145 has 3 MA's), (109, 47199), (110, 47202), (111, 47205), (114, 47226), (122, 47262), (143, 47382), (157, 47427), (195, 47538), (196, 47541), (205, 47562),

Gene: Connomayer_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Connomayer_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Conspiracy_32 Start: 26881, Stop: 26372, Start Num: 81

Candidate Starts for Conspiracy_32:

(Start: 81 @26881 has 39 MA's),

Gene: Coog_32 Start: 27021, Stop: 26512, Start Num: 81

Candidate Starts for Coog_32:

(Start: 81 @27021 has 39 MA's),

Gene: Cookiedough_40 Start: 26610, Stop: 26218, Start Num: 82

Candidate Starts for Cookiedough_40:

(Start: 82 @26610 has 52 MA's), (121, 26463), (132, 26418), (139, 26376), (143, 26349),

Gene: Crocheter_64 Start: 46484, Stop: 46954, Start Num: 63

Candidate Starts for Crocheter_64:

(Start: 63 @46484 has 31 MA's), (Start: 66 @46493 has 13 MA's), (111, 46622), (127, 46715), (152, 46823), (173, 46916),

Gene: Cuco_32 Start: 26980, Stop: 26471, Start Num: 81

Candidate Starts for Cuco_32:

(Start: 81 @26980 has 39 MA's),

Gene: Cucurbita_145 Start: 80440, Stop: 80829, Start Num: 91

Candidate Starts for Cucurbita_145:

(Start: 91 @80440 has 10 MA's), (120, 80578), (170, 80800), (177, 80818),

Gene: Cullens_41 Start: 28575, Stop: 28192, Start Num: 84

Candidate Starts for Cullens_41:

(Start: 70 @28602 has 13 MA's), (Start: 84 @28575 has 76 MA's), (Start: 104 @28530 has 3 MA's),
(137, 28359), (139, 28347),

Gene: Culver_146 Start: 78704, Stop: 79093, Start Num: 91

Candidate Starts for Culver_146:

(Start: 91 @78704 has 10 MA's), (120, 78842), (170, 79064), (177, 79082),

Gene: D29_36.1 Start: 27983, Stop: 27597, Start Num: 82

Candidate Starts for D29_36.1:

(Start: 82 @27983 has 52 MA's), (139, 27752),

Gene: D32_40 Start: 27983, Stop: 27597, Start Num: 82

Candidate Starts for D32_40:

(Start: 82 @27983 has 52 MA's), (139, 27752),

Gene: DBQu4n_40 Start: 27983, Stop: 27597, Start Num: 82

Candidate Starts for DBQu4n_40:

(Start: 82 @27983 has 52 MA's), (139, 27752),

Gene: DaHudson_41 Start: 28568, Stop: 28185, Start Num: 84

Candidate Starts for DaHudson_41:

(Start: 70 @28595 has 13 MA's), (Start: 84 @28568 has 76 MA's), (Start: 104 @28523 has 3 MA's),
(137, 28352), (139, 28340),

Gene: Daishi_39 Start: 27415, Stop: 27032, Start Num: 84

Candidate Starts for Daishi_39:

(Start: 70 @27442 has 13 MA's), (Start: 84 @27415 has 76 MA's), (Start: 98 @27388 has 1 MA's),
(Start: 104 @27370 has 3 MA's), (137, 27199), (139, 27187),

Gene: Dancer_65 Start: 46229, Stop: 46744, Start Num: 55

Candidate Starts for Dancer_65:

(Start: 55 @46229 has 15 MA's), (Start: 98 @46313 has 1 MA's), (Start: 101 @46319 has 3 MA's),
(111, 46379), (114, 46400), (122, 46436), (127, 46472), (143, 46556), (170, 46664), (176, 46679),
(195, 46712), (196, 46715), (205, 46736),

Gene: Danforth_31 Start: 26198, Stop: 25686, Start Num: 86

Candidate Starts for Danforth_31:

(Start: 86 @26198 has 45 MA's), (139, 25967), (178, 25817), (193, 25781),

Gene: Danzina_36 Start: 26809, Stop: 27285, Start Num: 87

Candidate Starts for Danzina_36:

(47, 26743), (Start: 81 @26803 has 39 MA's), (Start: 87 @26809 has 39 MA's), (108, 26887), (111,
26902), (146, 27097), (170, 27196), (195, 27253), (201, 27268), (208, 27280),

Gene: Dattran_36 Start: 26615, Stop: 27091, Start Num: 87

Candidate Starts for Dattran_36:

(47, 26549), (Start: 81 @26609 has 39 MA's), (Start: 87 @26615 has 39 MA's), (108, 26693), (111,
26708), (146, 26903), (170, 27002), (195, 27059),

Gene: Datway_35 Start: 27823, Stop: 27227, Start Num: 89

Candidate Starts for Datway_35:

(58, 27853), (Start: 89 @27823 has 145 MA's), (170, 27460), (185, 27424), (214, 27355), (217, 27310), (218, 27298),

Gene: Daudau_35 Start: 26779, Stop: 27237, Start Num: 80

Candidate Starts for Daudau_35:

(61, 26740), (Start: 80 @26779 has 24 MA's), (Start: 104 @26824 has 3 MA's), (108, 26857), (109, 26866), (110, 26869), (156, 27079), (157, 27085), (163, 27118), (195, 27205), (201, 27220),

Gene: Deano_35 Start: 27812, Stop: 27216, Start Num: 89

Candidate Starts for Deano_35:

(Start: 89 @27812 has 145 MA's), (169, 27452), (170, 27449), (185, 27413), (213, 27347), (214, 27344), (217, 27299), (218, 27287),

Gene: Demure_63 Start: 45961, Stop: 46422, Start Num: 63

Candidate Starts for Demure_63:

(36, 45904), (Start: 63 @45961 has 31 MA's), (Start: 66 @45970 has 13 MA's), (111, 46102), (124, 46168), (127, 46195), (140, 46258), (152, 46303),

Gene: Dennebes_58 Start: 29550, Stop: 29158, Start Num: 101

Candidate Starts for Dennebes_58:

(Start: 92 @29577 has 9 MA's), (Start: 101 @29550 has 3 MA's), (108, 29505), (153, 29295),

Gene: Destructrice_53 Start: 29352, Stop: 28939, Start Num: 95

Candidate Starts for Destructrice_53:

(Start: 95 @29352 has 2 MA's), (Start: 98 @29334 has 1 MA's), (111, 29268), (165, 29007),

Gene: Dexers_34 Start: 27476, Stop: 27880, Start Num: 87

Candidate Starts for Dexers_34:

(Start: 87 @27476 has 39 MA's), (106, 27530), (109, 27563), (116, 27596), (169, 27857), (171, 27863),

Gene: Dhanush_35 Start: 27807, Stop: 27211, Start Num: 89

Candidate Starts for Dhanush_35:

(Start: 89 @27807 has 145 MA's), (169, 27447), (170, 27444), (180, 27423), (185, 27408), (213, 27342), (214, 27339), (217, 27294), (218, 27282),

Gene: Dialga_64 Start: 46617, Stop: 47078, Start Num: 63

Candidate Starts for Dialga_64:

(36, 46560), (Start: 63 @46617 has 31 MA's), (Start: 66 @46626 has 13 MA's), (111, 46758), (124, 46824), (127, 46851), (140, 46914), (152, 46959),

Gene: Diane_34 Start: 26663, Stop: 27148, Start Num: 81

Candidate Starts for Diane_34:

(Start: 81 @26663 has 39 MA's), (108, 26747), (111, 26762), (153, 26978), (195, 27116), (201, 27131),

Gene: Dieselweasel_41 Start: 28578, Stop: 28195, Start Num: 84

Candidate Starts for Dieselweasel_41:

(Start: 70 @28605 has 13 MA's), (Start: 84 @28578 has 76 MA's), (Start: 104 @28533 has 3 MA's), (137, 28362), (139, 28350),

Gene: DirtyDunning_35 Start: 27843, Stop: 27268, Start Num: 89

Candidate Starts for DirtyDunning_35:

(Start: 89 @27843 has 145 MA's), (170, 27480), (185, 27444), (214, 27375), (217, 27330), (218, 27318),

Gene: Discoknowium_32 Start: 27090, Stop: 26581, Start Num: 81

Candidate Starts for Discoknowium_32:

(Start: 81 @27090 has 39 MA's),

Gene: DontArgue_35 Start: 26801, Stop: 26325, Start Num: 89

Candidate Starts for DontArgue_35:

(20, 26966), (Start: 89 @26801 has 145 MA's), (Start: 104 @26756 has 3 MA's), (108, 26723), (109, 26714), (110, 26711), (152, 26525), (164, 26459), (169, 26444), (176, 26426),

Gene: Dorothea_40 Start: 26617, Stop: 26225, Start Num: 82

Candidate Starts for Dorothea_40:

(Start: 82 @26617 has 52 MA's), (121, 26470), (132, 26425), (139, 26383), (143, 26356),

Gene: DroogsArmy_36 Start: 29992, Stop: 29501, Start Num: 88

Candidate Starts for DroogsArmy_36:

(Start: 88 @29992 has 6 MA's), (128, 29818), (169, 29632), (170, 29629), (206, 29551), (209, 29548),

Gene: DropBear_36 Start: 27866, Stop: 27480, Start Num: 86

Candidate Starts for DropBear_36:

(Start: 86 @27866 has 45 MA's), (135, 27668),

Gene: Druantia_35 Start: 27807, Stop: 27211, Start Num: 89

Candidate Starts for Druantia_35:

(Start: 89 @27807 has 145 MA's), (169, 27447), (170, 27444), (185, 27408), (213, 27342), (214, 27339), (217, 27294), (218, 27282),

Gene: Dublin_31 Start: 26952, Stop: 26440, Start Num: 81

Candidate Starts for Dublin_31:

(Start: 81 @26952 has 39 MA's), (169, 26583),

Gene: Duffington_62 Start: 46002, Stop: 46544, Start Num: 66

Candidate Starts for Duffington_62:

(36, 45936), (Start: 63 @45993 has 31 MA's), (Start: 66 @46002 has 13 MA's), (111, 46134), (124, 46200), (127, 46227), (152, 46335),

Gene: Duplo_40 Start: 28021, Stop: 27635, Start Num: 82

Candidate Starts for Duplo_40:

(Start: 82 @28021 has 52 MA's), (139, 27790),

Gene: DustyMartin_39 Start: 27581, Stop: 27105, Start Num: 89

Candidate Starts for DustyMartin_39:

(58, 27617), (Start: 89 @27581 has 145 MA's), (Start: 104 @27536 has 3 MA's), (108, 27503), (109, 27494), (110, 27491), (164, 27239), (169, 27224), (176, 27206),

Gene: Dwayne_34 Start: 26047, Stop: 26535, Start Num: 71

Candidate Starts for Dwayne_34:

(18, 25867), (24, 25903), (47, 25999), (Start: 71 @26047 has 36 MA's), (103, 26119), (108, 26155), (109, 26164), (118, 26212), (156, 26377), (157, 26383), (195, 26503), (208, 26530),

Gene: ELB20_33 Start: 27045, Stop: 27530, Start Num: 81

Candidate Starts for ELB20_33:

(Start: 81 @27045 has 39 MA's), (108, 27129), (111, 27144), (121, 27201), (145, 27333), (156, 27372), (195, 27498), (201, 27513),

Gene: Eagle_35 Start: 27823, Stop: 27347, Start Num: 89

Candidate Starts for Eagle_35:

(Start: 89 @27823 has 145 MA's), (Start: 104 @27778 has 3 MA's), (131, 27640), (165, 27475), (170, 27463), (198, 27403), (204, 27391),

Gene: Eapen_35 Start: 27802, Stop: 27206, Start Num: 89

Candidate Starts for Eapen_35:

(Start: 89 @27802 has 145 MA's), (169, 27442), (170, 27439), (185, 27403), (213, 27337), (214, 27334), (217, 27289), (218, 27277),

Gene: Eddasa_35 Start: 26042, Stop: 26530, Start Num: 71

Candidate Starts for Eddasa_35:

(31, 25937), (47, 25994), (Start: 71 @26042 has 36 MA's), (103, 26114), (109, 26159), (127, 26261), (157, 26378), (195, 26498), (208, 26525),

Gene: Eddiemania_66 Start: 47192, Stop: 47701, Start Num: 63

Candidate Starts for Eddiemania_66:

(34, 47129), (36, 47135), (Start: 63 @47192 has 31 MA's), (Start: 66 @47201 has 13 MA's), (111, 47333), (124, 47399), (127, 47426), (140, 47489), (152, 47534), (162, 47585), (173, 47627), (177, 47636), (203, 47687), (207, 47693),

Gene: EhyElimayoE_215 Start: 129333, Stop: 129842, Start Num: 80

Candidate Starts for EhyElimayoE_215:

(21, 129150), (Start: 80 @129333 has 24 MA's), (125, 129507), (155, 129624), (187, 129741), (214, 129807), (216, 129837),

Gene: Ejemplo_33 Start: 25988, Stop: 26476, Start Num: 71

Candidate Starts for Ejemplo_33:

(19, 25820), (46, 25937), (Start: 71 @25988 has 36 MA's), (103, 26060), (108, 26096), (109, 26105), (118, 26153), (156, 26318), (157, 26324), (195, 26444), (208, 26471),

Gene: ElGato_36 Start: 27112, Stop: 27516, Start Num: 87

Candidate Starts for ElGato_36:

(18, 26917), (49, 27052), (Start: 87 @27112 has 39 MA's), (106, 27166), (109, 27199), (116, 27232), (169, 27493), (171, 27499),

Gene: ElTiger69_33 Start: 26682, Stop: 26170, Start Num: 82

Candidate Starts for ElTiger69_33:

(Start: 82 @26682 has 52 MA's),

Gene: Emaanora_37 Start: 26005, Stop: 26493, Start Num: 71

Candidate Starts for Emaanora_37:

(18, 25825), (24, 25861), (47, 25957), (Start: 71 @26005 has 36 MA's), (103, 26077), (108, 26113), (109, 26122), (118, 26170), (156, 26335), (157, 26341), (195, 26461), (208, 26488),

Gene: EndAve_65 Start: 46474, Stop: 47016, Start Num: 66

Candidate Starts for EndAve_65:

(36, 46408), (Start: 63 @46465 has 31 MA's), (Start: 66 @46474 has 13 MA's), (111, 46606), (124, 46672), (127, 46699), (140, 46762), (152, 46807), (162, 46858), (173, 46900),

Gene: EnochSoames_37 Start: 26037, Stop: 26525, Start Num: 71
Candidate Starts for EnochSoames_37:
(31, 25932), (47, 25989), (Start: 71 @26037 has 36 MA's), (103, 26109), (109, 26154), (127, 26256),
(157, 26373), (195, 26493), (208, 26520),

Gene: EpicPhail_41 Start: 28576, Stop: 28193, Start Num: 84
Candidate Starts for EpicPhail_41:
(Start: 70 @28603 has 13 MA's), (Start: 84 @28576 has 76 MA's), (Start: 104 @28531 has 3 MA's),
(137, 28360), (139, 28348),

Gene: Eris_34 Start: 27804, Stop: 27208, Start Num: 89
Candidate Starts for Eris_34:
(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214,
27336), (217, 27291), (218, 27279),

Gene: Eros_35 Start: 27806, Stop: 27210, Start Num: 89
Candidate Starts for Eros_35:
(Start: 89 @27806 has 145 MA's), (169, 27446), (170, 27443), (185, 27407), (213, 27341), (214,
27338), (217, 27293), (218, 27281),

Gene: Esperer_34 Start: 25504, Stop: 25992, Start Num: 71
Candidate Starts for Esperer_34:
(47, 25456), (Start: 71 @25504 has 36 MA's), (103, 25576), (109, 25621), (127, 25723), (157, 25840),
(195, 25960), (208, 25987),

Gene: Eurydice_36 Start: 27798, Stop: 27322, Start Num: 89
Candidate Starts for Eurydice_36:
(Start: 89 @27798 has 145 MA's), (Start: 104 @27753 has 3 MA's), (131, 27615), (165, 27450), (170,
27438), (198, 27378), (204, 27366),

Gene: Expelliarmus_31 Start: 26184, Stop: 25672, Start Num: 86
Candidate Starts for Expelliarmus_31:
(Start: 86 @26184 has 45 MA's), (139, 25953), (178, 25803), (193, 25767),

Gene: Ezurina_42 Start: 31024, Stop: 30563, Start Num: 91
Candidate Starts for Ezurina_42:
(Start: 91 @31024 has 10 MA's), (Start: 98 @30997 has 1 MA's), (111, 30934), (113, 30916), (114,
30913), (123, 30871), (134, 30832), (159, 30709),

Gene: Fabian_51 Start: 29095, Stop: 28676, Start Num: 92
Candidate Starts for Fabian_51:
(Start: 92 @29095 has 9 MA's), (Start: 101 @29068 has 3 MA's), (108, 29023), (153, 28813),

Gene: Farber_41 Start: 28569, Stop: 28186, Start Num: 84
Candidate Starts for Farber_41:
(Start: 70 @28596 has 13 MA's), (Start: 84 @28569 has 76 MA's), (Start: 104 @28524 has 3 MA's),
(137, 28353), (139, 28341),

Gene: Fazel_65 Start: 46305, Stop: 46814, Start Num: 63
Candidate Starts for Fazel_65:
(Start: 63 @46305 has 31 MA's), (Start: 66 @46314 has 13 MA's), (111, 46443), (137, 46581), (169,
46725),

Gene: Fernando_41 Start: 28575, Stop: 28192, Start Num: 84

Candidate Starts for Fernando_41:

(Start: 70 @28602 has 13 MA's), (Start: 84 @28575 has 76 MA's), (Start: 104 @28530 has 3 MA's), (137, 28359), (139, 28347),

Gene: Figliar_62 Start: 46394, Stop: 46849, Start Num: 63

Candidate Starts for Figliar_62:

(Start: 33 @46331 has 1 MA's), (41, 46364), (Start: 63 @46394 has 31 MA's), (Start: 66 @46403 has 13 MA's), (111, 46535), (124, 46601), (127, 46628), (152, 46736), (162, 46787),

Gene: Florean_35 Start: 27803, Stop: 27207, Start Num: 89

Candidate Starts for Florean_35:

(Start: 89 @27803 has 145 MA's), (169, 27443), (170, 27440), (185, 27404), (213, 27338), (214, 27335), (217, 27290), (218, 27278),

Gene: Flux_35 Start: 27806, Stop: 27210, Start Num: 89

Candidate Starts for Flux_35:

(Start: 89 @27806 has 145 MA's), (169, 27446), (170, 27443), (185, 27407), (213, 27341), (214, 27338), (217, 27293), (218, 27281),

Gene: Football_67 Start: 46120, Stop: 46635, Start Num: 55

Candidate Starts for Football_67:

(Start: 55 @46120 has 15 MA's), (Start: 98 @46204 has 1 MA's), (Start: 101 @46210 has 3 MA's), (111, 46270), (114, 46291), (122, 46327), (132, 46378), (143, 46447), (170, 46555), (195, 46603), (196, 46606), (205, 46627),

Gene: ForGetIt_32 Start: 26906, Stop: 26397, Start Num: 81

Candidate Starts for ForGetIt_32:

(Start: 81 @26906 has 39 MA's),

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

Candidate Starts for FortCran_65:

(Start: 55 @46494 has 15 MA's), (Start: 98 @46578 has 1 MA's), (Start: 101 @46584 has 3 MA's), (111, 46644), (114, 46665), (122, 46701), (127, 46737), (143, 46821), (170, 46929), (176, 46944), (195, 46977), (196, 46980), (205, 47001),

Gene: Frankenweenie_230 Start: 138966, Stop: 139478, Start Num: 80

Candidate Starts for Frankenweenie_230:

(21, 138783), (Start: 80 @138966 has 24 MA's), (147, 139251), (155, 139272), (163, 139320), (164, 139332), (184, 139383), (197, 139416), (201, 139425),

Gene: Fred313_36 Start: 27551, Stop: 27165, Start Num: 86

Candidate Starts for Fred313_36:

(Start: 86 @27551 has 45 MA's), (135, 27353),

Gene: Funston_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Funston_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: GMA2_70 Start: 73346, Stop: 72861, Start Num: 80

Candidate Starts for GMA2_70:

(68, 73370), (Start: 80 @73346 has 24 MA's), (Start: 98 @73307 has 1 MA's), (Start: 101 @73301 has 3 MA's), (166, 72983), (170, 72974), (195, 72914), (202, 72896),

Gene: Gadost_35 Start: 27808, Stop: 27212, Start Num: 89

Candidate Starts for Gadost_35:

(Start: 89 @27808 has 145 MA's), (169, 27448), (170, 27445), (185, 27409), (213, 27343), (214, 27340), (217, 27295), (218, 27283),

Gene: Gemma_40 Start: 28397, Stop: 28014, Start Num: 84

Candidate Starts for Gemma_40:

(13, 28625), (Start: 70 @28424 has 13 MA's), (Start: 84 @28397 has 76 MA's), (Start: 104 @28352 has 3 MA's), (137, 28181), (139, 28169),

Gene: George_31 Start: 26981, Stop: 26472, Start Num: 81

Candidate Starts for George_31:

(Start: 81 @26981 has 39 MA's),

Gene: Gerri43_43 Start: 29940, Stop: 29479, Start Num: 91

Candidate Starts for Gerri43_43:

(Start: 91 @29940 has 10 MA's), (Start: 98 @29913 has 1 MA's), (113, 29832), (126, 29772), (134, 29748), (159, 29625),

Gene: Ghoulboy_32 Start: 27221, Stop: 26715, Start Num: 89

Candidate Starts for Ghoulboy_32:

(Start: 89 @27221 has 145 MA's),

Gene: Gill_65 Start: 46357, Stop: 46827, Start Num: 78

Candidate Starts for Gill_65:

(42, 46288), (Start: 55 @46312 has 15 MA's), (Start: 78 @46357 has 5 MA's), (Start: 98 @46396 has 1 MA's), (Start: 101 @46402 has 3 MA's), (111, 46462), (114, 46483), (122, 46519), (127, 46555), (143, 46639), (170, 46747), (176, 46762), (195, 46795), (196, 46798), (205, 46819),

Gene: GingkoMaracino_41 Start: 28489, Stop: 28079, Start Num: 70

Candidate Starts for GingkoMaracino_41:

(Start: 70 @28489 has 13 MA's), (Start: 84 @28462 has 76 MA's), (Start: 104 @28417 has 3 MA's), (137, 28246), (139, 28234),

Gene: GirlDinner_34 Start: 26398, Stop: 26871, Start Num: 87

Candidate Starts for GirlDinner_34:

(Start: 87 @26398 has 39 MA's), (Start: 104 @26443 has 3 MA's), (106, 26452), (108, 26476), (116, 26518), (142, 26668), (195, 26839), (201, 26854),

Gene: Giroux_37 Start: 27798, Stop: 27412, Start Num: 86

Candidate Starts for Giroux_37:

(Start: 86 @27798 has 45 MA's), (135, 27600),

Gene: Gladiator_40 Start: 26599, Stop: 26207, Start Num: 82

Candidate Starts for Gladiator_40:

(Start: 82 @26599 has 52 MA's), (121, 26452), (132, 26407), (139, 26365), (143, 26338),

Gene: Glintora_65 Start: 46950, Stop: 47450, Start Num: 66

Candidate Starts for Glintora_65:

(Start: 63 @46941 has 31 MA's), (Start: 66 @46950 has 13 MA's), (111, 47082), (124, 47148), (127, 47175), (140, 47238), (152, 47283), (162, 47334), (173, 47376), (203, 47436), (207, 47442),

Gene: Goby_34 Start: 26511, Stop: 26990, Start Num: 84

Candidate Starts for Goby_34:

(Start: 84 @26511 has 76 MA's), (108, 26592), (111, 26607), (146, 26802), (195, 26958), (201, 26973),

Gene: GodonK_189 Start: 98192, Stop: 97662, Start Num: 66

Candidate Starts for GodonK_189:

(Start: 66 @98192 has 13 MA's), (69, 98186), (Start: 101 @98117 has 3 MA's), (113, 98039), (152, 97868), (157, 97847), (170, 97784), (189, 97742), (194, 97730), (211, 97688),

Gene: Godpower_35 Start: 26506, Stop: 26985, Start Num: 84

Candidate Starts for Godpower_35:

(Start: 84 @26506 has 76 MA's), (108, 26587), (111, 26602), (146, 26797), (195, 26953), (201, 26968),

Gene: Gravy_64 Start: 45990, Stop: 46505, Start Num: 55

Candidate Starts for Gravy_64:

(Start: 55 @45990 has 15 MA's), (Start: 98 @46074 has 1 MA's), (Start: 101 @46080 has 3 MA's), (111, 46140), (114, 46161), (122, 46197), (127, 46233), (143, 46317), (170, 46425), (176, 46440), (195, 46473), (196, 46476), (205, 46497),

Gene: GreenWeasel_36 Start: 26199, Stop: 26711, Start Num: 63

Candidate Starts for GreenWeasel_36:

(42, 26163), (Start: 63 @26199 has 31 MA's), (Start: 90 @26235 has 1 MA's), (Start: 104 @26280 has 3 MA's), (108, 26313), (109, 26322), (113, 26346), (156, 26550), (195, 26679),

Gene: Grif_41 Start: 28650, Stop: 28267, Start Num: 84

Candidate Starts for Grif_41:

(Start: 70 @28677 has 13 MA's), (Start: 84 @28650 has 76 MA's), (Start: 104 @28605 has 3 MA's), (137, 28434), (139, 28422),

Gene: Groupthink_41 Start: 28401, Stop: 28018, Start Num: 84

Candidate Starts for Groupthink_41:

(13, 28629), (Start: 70 @28428 has 13 MA's), (Start: 84 @28401 has 76 MA's), (Start: 104 @28356 has 3 MA's), (137, 28185), (139, 28173),

Gene: Grub_41 Start: 28595, Stop: 28185, Start Num: 70

Candidate Starts for Grub_41:

(Start: 70 @28595 has 13 MA's), (Start: 84 @28568 has 76 MA's), (Start: 104 @28523 has 3 MA's), (137, 28352), (139, 28340),

Gene: Grum1_41 Start: 28602, Stop: 28192, Start Num: 70

Candidate Starts for Grum1_41:

(Start: 70 @28602 has 13 MA's), (Start: 84 @28575 has 76 MA's), (Start: 104 @28530 has 3 MA's), (137, 28359), (139, 28347),

Gene: Gruunaga_40 Start: 26598, Stop: 26206, Start Num: 82

Candidate Starts for Gruunaga_40:

(Start: 82 @26598 has 52 MA's), (121, 26451), (132, 26406), (139, 26364), (143, 26337),

Gene: GtownJaz_41 Start: 28577, Stop: 28194, Start Num: 84

Candidate Starts for GtownJaz_41:

(Start: 70 @28604 has 13 MA's), (Start: 84 @28577 has 76 MA's), (Start: 104 @28532 has 3 MA's),
(137, 28361), (139, 28349),

Gene: Gusicorn_65 Start: 46391, Stop: 46861, Start Num: 63

Candidate Starts for Gusicorn_65:

(Start: 63 @46391 has 31 MA's), (Start: 66 @46400 has 13 MA's), (111, 46529), (127, 46622), (152, 46730), (173, 46823),

Gene: HINdeR_35 Start: 29947, Stop: 29549, Start Num: 89

Candidate Starts for HINdeR_35:

(Start: 89 @29947 has 145 MA's), (139, 29719), (156, 29653), (169, 29587), (182, 29557),

Gene: Haizum_36 Start: 26732, Stop: 27217, Start Num: 81

Candidate Starts for Haizum_36:

(Start: 81 @26732 has 39 MA's), (108, 26816), (111, 26831), (153, 27047), (195, 27185), (201, 27200),

Gene: HamSlice_34 Start: 27802, Stop: 27206, Start Num: 89

Candidate Starts for HamSlice_34:

(Start: 89 @27802 has 145 MA's), (169, 27442), (185, 27403), (213, 27337), (214, 27334), (217, 27289), (218, 27277),

Gene: Hammer_40 Start: 26429, Stop: 26040, Start Num: 82

Candidate Starts for Hammer_40:

(Start: 82 @26429 has 52 MA's), (139, 26198), (143, 26171), (169, 26066),

Gene: Hank144_36 Start: 26811, Stop: 27266, Start Num: 80

Candidate Starts for Hank144_36:

(Start: 80 @26811 has 24 MA's), (Start: 101 @26844 has 3 MA's), (Start: 104 @26856 has 3 MA's),
(108, 26889), (109, 26898), (157, 27117), (195, 27234), (201, 27249),

Gene: Happiness_35 Start: 27809, Stop: 27213, Start Num: 89

Candidate Starts for Happiness_35:

(Start: 89 @27809 has 145 MA's), (169, 27449), (170, 27446), (185, 27410), (213, 27344), (214, 27341), (217, 27296), (218, 27284),

Gene: HashRod_41 Start: 28574, Stop: 28191, Start Num: 84

Candidate Starts for HashRod_41:

(Start: 70 @28601 has 13 MA's), (Start: 84 @28574 has 76 MA's), (Start: 98 @28547 has 1 MA's),
(Start: 104 @28529 has 3 MA's), (137, 28358), (139, 28346),

Gene: HaugeAnator_54 Start: 29438, Stop: 29022, Start Num: 92

Candidate Starts for HaugeAnator_54:

(67, 29480), (Start: 92 @29438 has 9 MA's), (111, 29351), (129, 29255), (130, 29252), (132, 29246),
(149, 29168),

Gene: HaveUMetTed_41 Start: 28394, Stop: 28011, Start Num: 84

Candidate Starts for HaveUMetTed_41:

(Start: 70 @28421 has 13 MA's), (Start: 84 @28394 has 76 MA's), (Start: 104 @28349 has 3 MA's),
(137, 28178), (139, 28166),

Gene: Heathen_36 Start: 27607, Stop: 27221, Start Num: 86

Candidate Starts for Heathen_36:

(Start: 86 @27607 has 45 MA's), (135, 27409),

Gene: HelDan_36 Start: 27859, Stop: 27473, Start Num: 86

Candidate Starts for HelDan_36:

(Start: 86 @27859 has 45 MA's), (135, 27661),

Gene: Heliosoles_40 Start: 28401, Stop: 28018, Start Num: 84

Candidate Starts for Heliosoles_40:

(13, 28632), (Start: 70 @28428 has 13 MA's), (Start: 84 @28401 has 76 MA's), (Start: 104 @28356 has 3 MA's), (137, 28185), (139, 28173),

Gene: Helmet_41 Start: 26617, Stop: 26225, Start Num: 82

Candidate Starts for Helmet_41:

(Start: 82 @26617 has 52 MA's), (121, 26470), (132, 26425), (139, 26383), (143, 26356),

Gene: Hercules11_41 Start: 28611, Stop: 28201, Start Num: 70

Candidate Starts for Hercules11_41:

(Start: 70 @28611 has 13 MA's), (Start: 84 @28584 has 76 MA's), (Start: 104 @28539 has 3 MA's), (137, 28368), (139, 28356),

Gene: Hexamo_40 Start: 26376, Stop: 25987, Start Num: 86

Candidate Starts for Hexamo_40:

(Start: 86 @26376 has 45 MA's), (121, 26232), (132, 26187), (139, 26145), (143, 26118),

Gene: Hippo_34 Start: 26056, Stop: 26544, Start Num: 71

Candidate Starts for Hippo_34:

(18, 25876), (24, 25912), (47, 26008), (Start: 71 @26056 has 36 MA's), (103, 26128), (108, 26164), (109, 26173), (118, 26221), (127, 26275), (141, 26350), (156, 26386), (157, 26392), (195, 26512), (208, 26539),

Gene: Holli_35 Start: 27594, Stop: 26998, Start Num: 89

Candidate Starts for Holli_35:

(Start: 89 @27594 has 145 MA's), (169, 27234), (170, 27231), (185, 27195), (213, 27129), (214, 27126), (217, 27081), (218, 27069),

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

Candidate Starts for Hookmount_35:

(Start: 85 @27813 has 10 MA's), (Start: 88 @27810 has 6 MA's), (Start: 104 @27765 has 3 MA's), (131, 27627), (172, 27450),

Gene: Hoot_40 Start: 26594, Stop: 26202, Start Num: 82

Candidate Starts for Hoot_40:

(Start: 82 @26594 has 52 MA's), (121, 26447), (132, 26402), (139, 26360), (143, 26333),

Gene: Hortihabitatio_66 Start: 47107, Stop: 47610, Start Num: 66

Candidate Starts for Hortihabitatio_66:

(35, 47032), (40, 47053), (57, 47089), (Start: 63 @47098 has 31 MA's), (Start: 66 @47107 has 13 MA's), (111, 47236), (137, 47374), (169, 47518),

Gene: Houdini22_35 Start: 27808, Stop: 27212, Start Num: 89

Candidate Starts for Houdini22_35:

(Start: 89 @27808 has 145 MA's), (169, 27448), (170, 27445), (185, 27409), (213, 27343), (214, 27340), (217, 27295), (218, 27283),

Gene: HuhtaEnerson15_32 Start: 26972, Stop: 26463, Start Num: 81

Candidate Starts for HuhtaEnerson15_32:

(Start: 81 @26972 has 39 MA's),

Gene: Huxley_35 Start: 27865, Stop: 27269, Start Num: 89

Candidate Starts for Huxley_35:

(Start: 89 @27865 has 145 MA's), (169, 27505), (170, 27502), (185, 27466), (213, 27400), (214, 27397), (217, 27352), (218, 27340),

Gene: Hydra_36 Start: 26216, Stop: 26704, Start Num: 71

Candidate Starts for Hydra_36:

(47, 26168), (Start: 71 @26216 has 36 MA's), (103, 26288), (109, 26333), (127, 26435), (157, 26552), (195, 26672), (208, 26699),

Gene: Hydrus_66 Start: 47228, Stop: 47680, Start Num: 66

Candidate Starts for Hydrus_66:

(36, 47162), (51, 47207), (Start: 63 @47219 has 31 MA's), (Start: 66 @47228 has 13 MA's), (111, 47360), (124, 47426), (127, 47453), (140, 47516), (152, 47561),

Gene: ICleared_35 Start: 27836, Stop: 27261, Start Num: 89

Candidate Starts for ICleared_35:

(Start: 89 @27836 has 145 MA's), (170, 27473), (185, 27437), (214, 27368), (217, 27323), (218, 27311),

Gene: Ibantik_13 Start: 5594, Stop: 5154, Start Num: 83

Candidate Starts for Ibantik_13:

(Start: 83 @5594 has 5 MA's), (157, 5291), (188, 5186),

Gene: Iceman_36 Start: 28093, Stop: 27497, Start Num: 89

Candidate Starts for Iceman_36:

(Start: 89 @28093 has 145 MA's), (169, 27733), (170, 27730), (185, 27694), (213, 27628), (214, 27625), (217, 27580), (218, 27568),

Gene: Idleandcovert_36 Start: 27799, Stop: 27413, Start Num: 86

Candidate Starts for Idleandcovert_36:

(Start: 86 @27799 has 45 MA's), (135, 27601),

Gene: Immanuel3_53 Start: 29441, Stop: 29025, Start Num: 92

Candidate Starts for Immanuel3_53:

(67, 29483), (Start: 92 @29441 has 9 MA's), (111, 29354), (118, 29315), (127, 29264), (132, 29249), (134, 29243),

Gene: Indigo_33 Start: 25684, Stop: 26172, Start Num: 71

Candidate Starts for Indigo_33:

(47, 25636), (Start: 71 @25684 has 36 MA's), (103, 25756), (109, 25801), (127, 25903), (157, 26020), (195, 26140), (208, 26167),

Gene: Indra_42 Start: 26618, Stop: 26226, Start Num: 82

Candidate Starts for Indra_42:

(Start: 82 @26618 has 52 MA's), (121, 26471), (132, 26426), (139, 26384), (143, 26357),

Gene: Iracema64_36 Start: 28062, Stop: 27583, Start Num: 89

Candidate Starts for Iracema64_36:

(Start: 89 @28062 has 145 MA's), (163, 27729), (169, 27702),

Gene: Isca_36 Start: 27568, Stop: 27182, Start Num: 86

Candidate Starts for Isca_36:

(Start: 86 @27568 has 45 MA's),

Gene: Isiphiwo_40 Start: 26688, Stop: 26296, Start Num: 82

Candidate Starts for Isiphiwo_40:

(Start: 82 @26688 has 52 MA's), (121, 26541), (132, 26496), (139, 26454), (143, 26427), (144, 26424),

Gene: Issmi_36 Start: 27365, Stop: 27823, Start Num: 80

Candidate Starts for Issmi_36:

(Start: 80 @27365 has 24 MA's), (Start: 104 @27410 has 3 MA's), (108, 27443), (109, 27452), (156, 27665), (157, 27671), (163, 27704), (195, 27791), (201, 27806),

Gene: Izzy_35 Start: 26089, Stop: 26577, Start Num: 71

Candidate Starts for Izzy_35:

(31, 25984), (47, 26041), (Start: 71 @26089 has 36 MA's), (103, 26161), (109, 26206), (127, 26308), (157, 26425), (195, 26545), (208, 26572),

Gene: JF2_36 Start: 27319, Stop: 26933, Start Num: 86

Candidate Starts for JF2_36:

(Start: 86 @27319 has 45 MA's),

Gene: JF4_36 Start: 27319, Stop: 26933, Start Num: 86

Candidate Starts for JF4_36:

(Start: 86 @27319 has 45 MA's),

Gene: JHC117_41 Start: 28574, Stop: 28191, Start Num: 84

Candidate Starts for JHC117_41:

(Start: 70 @28601 has 13 MA's), (Start: 84 @28574 has 76 MA's), (Start: 104 @28529 has 3 MA's), (137, 28358), (139, 28346),

Gene: Jabiru_33 Start: 26731, Stop: 26219, Start Num: 82

Candidate Starts for Jabiru_33:

(Start: 82 @26731 has 52 MA's), (127, 26554),

Gene: Janus_35 Start: 26738, Stop: 27211, Start Num: 87

Candidate Starts for Janus_35:

(Start: 87 @26738 has 39 MA's), (Start: 104 @26783 has 3 MA's), (106, 26792), (108, 26816), (109, 26825), (116, 26858), (142, 27008), (195, 27179), (201, 27194),

Gene: Jash_35 Start: 26042, Stop: 26530, Start Num: 71

Candidate Starts for Jash_35:

(31, 25937), (47, 25994), (Start: 71 @26042 has 36 MA's), (103, 26114), (109, 26159), (127, 26261), (157, 26378), (195, 26498), (208, 26525),

Gene: Jaykayelowell_35 Start: 27800, Stop: 27204, Start Num: 89

Candidate Starts for Jaykayelowell_35:

(Start: 89 @27800 has 145 MA's), (169, 27440), (170, 27437), (185, 27401), (213, 27335), (214, 27332), (217, 27287), (218, 27275),

Gene: Jeffabunny_40 Start: 26412, Stop: 26023, Start Num: 86

Candidate Starts for Jeffabunny_40:

(Start: 86 @26412 has 45 MA's), (121, 26268), (132, 26223), (139, 26181), (143, 26154),

Gene: JenCasNa_41 Start: 28575, Stop: 28192, Start Num: 84

Candidate Starts for JenCasNa_41:

(Start: 70 @28602 has 13 MA's), (Start: 84 @28575 has 76 MA's), (Start: 104 @28530 has 3 MA's), (137, 28359), (139, 28347),

Gene: JeppNRM_41 Start: 28399, Stop: 28016, Start Num: 84

Candidate Starts for JeppNRM_41:

(13, 28630), (Start: 70 @28426 has 13 MA's), (Start: 84 @28399 has 76 MA's), (Start: 104 @28354 has 3 MA's), (137, 28183), (139, 28171),

Gene: JetBlade_35 Start: 27801, Stop: 27205, Start Num: 89

Candidate Starts for JetBlade_35:

(Start: 89 @27801 has 145 MA's), (169, 27441), (170, 27438), (185, 27402), (213, 27336), (214, 27333), (217, 27288), (218, 27276),

Gene: Jevington_37 Start: 27148, Stop: 27609, Start Num: 80

Candidate Starts for Jevington_37:

(Start: 80 @27148 has 24 MA's), (Start: 104 @27196 has 3 MA's), (108, 27229), (156, 27451), (157, 27457), (163, 27490), (195, 27577), (201, 27592),

Gene: JewelBug_41 Start: 26622, Stop: 26230, Start Num: 82

Candidate Starts for JewelBug_41:

(Start: 82 @26622 has 52 MA's), (121, 26475), (132, 26430), (139, 26388), (143, 26361),

Gene: Jhitchelle_34 Start: 26984, Stop: 27391, Start Num: 87

Candidate Starts for Jhitchelle_34:

(49, 26924), (Start: 87 @26984 has 39 MA's), (106, 27041), (108, 27065), (109, 27074), (116, 27107), (119, 27125), (127, 27176), (132, 27191), (142, 27257), (157, 27308), (169, 27368), (171, 27374),

Gene: Jobu08_40 Start: 28405, Stop: 28022, Start Num: 84

Candidate Starts for Jobu08_40:

(Start: 70 @28432 has 13 MA's), (Start: 84 @28405 has 76 MA's), (Start: 104 @28360 has 3 MA's), (137, 28189), (139, 28177),

Gene: Jodelie19_62 Start: 47735, Stop: 48253, Start Num: 33

Candidate Starts for Jodelie19_62:

(Start: 33 @47735 has 1 MA's), (41, 47768), (Start: 63 @47798 has 31 MA's), (Start: 66 @47807 has 13 MA's), (111, 47939), (127, 48032), (152, 48140), (162, 48191),

Gene: JoongJeon_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for JoongJeon_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Jordennis_40 Start: 26606, Stop: 26214, Start Num: 82

Candidate Starts for Jordennis_40:

(Start: 82 @26606 has 52 MA's), (121, 26459), (132, 26414), (139, 26372), (143, 26345),

Gene: Jovo_32 Start: 27162, Stop: 26653, Start Num: 81

Candidate Starts for Jovo_32:

(Start: 81 @27162 has 39 MA's),

Gene: JulesRay_65 Start: 46487, Stop: 47002, Start Num: 55

Candidate Starts for JulesRay_65:

(Start: 55 @46487 has 15 MA's), (Start: 98 @46571 has 1 MA's), (Start: 101 @46577 has 3 MA's),
(111, 46637), (114, 46658), (122, 46694), (127, 46730), (143, 46814), (170, 46922), (176, 46937),
(195, 46970), (196, 46973), (205, 46994),

Gene: JustBecause_213 Start: 126485, Stop: 127003, Start Num: 80

Candidate Starts for JustBecause_213:

(21, 126302), (Start: 80 @126485 has 24 MA's), (Start: 98 @126524 has 1 MA's), (160, 126833), (163,
126845), (164, 126857), (184, 126908),

Gene: KADY_41 Start: 28574, Stop: 28191, Start Num: 84

Candidate Starts for KADY_41:

(Start: 70 @28601 has 13 MA's), (Start: 84 @28574 has 76 MA's), (Start: 98 @28547 has 1 MA's),
(Start: 104 @28529 has 3 MA's), (137, 28358), (139, 28346),

Gene: KFPoly_35 Start: 27801, Stop: 27205, Start Num: 89

Candidate Starts for KFPoly_35:

(Start: 89 @27801 has 145 MA's), (169, 27441), (170, 27438), (185, 27402), (213, 27336), (214,
27333), (217, 27288), (218, 27276),

Gene: Kachowdy_36 Start: 27859, Stop: 27473, Start Num: 86

Candidate Starts for Kachowdy_36:

(Start: 86 @27859 has 45 MA's), (135, 27661),

Gene: Kaine_35 Start: 27263, Stop: 27667, Start Num: 87

Candidate Starts for Kaine_35:

(Start: 87 @27263 has 39 MA's), (106, 27317), (109, 27350), (116, 27383), (169, 27644), (171, 27650),

Gene: Kalb97_41 Start: 28400, Stop: 28017, Start Num: 84

Candidate Starts for Kalb97_41:

(13, 28628), (Start: 70 @28427 has 13 MA's), (Start: 84 @28400 has 76 MA's), (Start: 104 @28355
has 3 MA's), (137, 28184), (139, 28172),

Gene: Kalnoky_41 Start: 28401, Stop: 28018, Start Num: 84

Candidate Starts for Kalnoky_41:

(13, 28626), (Start: 70 @28428 has 13 MA's), (Start: 84 @28401 has 76 MA's), (Start: 104 @28356
has 3 MA's), (137, 28185), (139, 28173),

Gene: Katalie_34 Start: 26236, Stop: 26655, Start Num: 87

Candidate Starts for Katalie_34:

(Start: 87 @26236 has 39 MA's), (103, 26281), (Start: 104 @26284 has 3 MA's), (109, 26326), (119,
26377), (121, 26386), (127, 26428), (148, 26530),

Gene: Katalie136_35 Start: 27837, Stop: 27262, Start Num: 89

Candidate Starts for Katalie136_35:

(58, 27867), (Start: 89 @27837 has 145 MA's), (170, 27474), (214, 27369), (217, 27324), (218, 27312),

Gene: Kazan_41 Start: 26622, Stop: 26230, Start Num: 82

Candidate Starts for Kazan_41:

(Start: 82 @26622 has 52 MA's), (121, 26475), (132, 26430), (139, 26388), (143, 26361),

Gene: Kela_211 Start: 126330, Stop: 126848, Start Num: 80

Candidate Starts for Kela_211:

(21, 126147), (Start: 80 @126330 has 24 MA's), (Start: 98 @126369 has 1 MA's), (160, 126678), (163, 126690), (164, 126702), (184, 126753),

Gene: Kenosha_63 Start: 46678, Stop: 47133, Start Num: 63

Candidate Starts for Kenosha_63:

(36, 46621), (45, 46657), (Start: 63 @46678 has 31 MA's), (Start: 66 @46687 has 13 MA's), (111, 46816), (127, 46909), (152, 47017), (162, 47068),

Gene: Kerberos_40 Start: 27983, Stop: 27597, Start Num: 82

Candidate Starts for Kerberos_40:

(Start: 82 @27983 has 52 MA's), (139, 27752),

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

Candidate Starts for Kerry_64:

(Start: 55 @45990 has 15 MA's), (Start: 98 @46074 has 1 MA's), (Start: 101 @46080 has 3 MA's), (111, 46140), (114, 46161), (122, 46197), (127, 46233), (143, 46317), (170, 46425), (176, 46440), (195, 46473), (196, 46476), (205, 46497),

Gene: Kimona_33 Start: 25900, Stop: 25490, Start Num: 89

Candidate Starts for Kimona_33:

(Start: 89 @25900 has 145 MA's), (121, 25753), (139, 25672), (163, 25567),

Gene: Kingmustik0402_35 Start: 27796, Stop: 27200, Start Num: 89

Candidate Starts for Kingmustik0402_35:

(Start: 89 @27796 has 145 MA's), (169, 27436), (170, 27433), (185, 27397), (213, 27331), (214, 27328), (217, 27283), (218, 27271),

Gene: Kipper29_40 Start: 26610, Stop: 26224, Start Num: 86

Candidate Starts for Kipper29_40:

(Start: 86 @26610 has 45 MA's), (139, 26382), (143, 26355),

Gene: Koan_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Koan_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Koko_40 Start: 26968, Stop: 26579, Start Num: 82

Candidate Starts for Koko_40:

(Start: 82 @26968 has 52 MA's), (139, 26737), (143, 26710), (169, 26605),

Gene: Koreni_34 Start: 27485, Stop: 26910, Start Num: 89

Candidate Starts for Koreni_34:

(Start: 89 @27485 has 145 MA's), (170, 27122), (185, 27086), (214, 27017), (217, 26972), (218, 26960),

Gene: Kradal_214 Start: 129330, Stop: 129839, Start Num: 80

Candidate Starts for Kradal_214:

(21, 129147), (Start: 80 @129330 has 24 MA's), (125, 129504), (155, 129621), (187, 129738), (214, 129804), (216, 129834),

Gene: Kratark_35 Start: 27746, Stop: 27267, Start Num: 89
Candidate Starts for Kratark_35:
(Start: 89 @27746 has 145 MA's), (163, 27413), (169, 27386),

Gene: Kremtemulon_35 Start: 27796, Stop: 27317, Start Num: 89
Candidate Starts for Kremtemulon_35:
(58, 27826), (Start: 89 @27796 has 145 MA's), (163, 27463), (169, 27436),

Gene: Kumquat_54 Start: 29457, Stop: 29041, Start Num: 94
Candidate Starts for Kumquat_54:
(37, 29580), (Start: 83 @29472 has 5 MA's), (Start: 94 @29457 has 3 MA's), (139, 29229),

Gene: Kyee_35 Start: 27802, Stop: 27206, Start Num: 89
Candidate Starts for Kyee_35:
(Start: 89 @27802 has 145 MA's), (169, 27442), (170, 27439), (185, 27403), (213, 27337), (214, 27334), (217, 27289), (218, 27277),

Gene: LBerry_41 Start: 28576, Stop: 28193, Start Num: 84
Candidate Starts for LBerry_41:
(Start: 70 @28603 has 13 MA's), (Start: 84 @28576 has 76 MA's), (Start: 104 @28531 has 3 MA's), (137, 28360), (139, 28348),

Gene: LHTSCC_37 Start: 28100, Stop: 27660, Start Num: 89
Candidate Starts for LHTSCC_37:
(Start: 89 @28100 has 145 MA's), (169, 27740), (170, 27737),

Gene: Lambert1_35 Start: 27809, Stop: 27381, Start Num: 88
Candidate Starts for Lambert1_35:
(Start: 85 @27812 has 10 MA's), (Start: 88 @27809 has 6 MA's), (Start: 104 @27764 has 3 MA's), (131, 27626), (172, 27449),

Gene: Lannister_36 Start: 26707, Stop: 27195, Start Num: 71
Candidate Starts for Lannister_36:
(18, 26527), (47, 26659), (Start: 71 @26707 has 36 MA's), (103, 26779), (163, 27076), (195, 27163), (208, 27190),

Gene: LappelDuVide_35 Start: 27803, Stop: 27207, Start Num: 89
Candidate Starts for LappelDuVide_35:
(Start: 89 @27803 has 145 MA's), (169, 27443), (170, 27440), (185, 27404), (213, 27338), (214, 27335), (217, 27290), (218, 27278),

Gene: LarryKay_40 Start: 28576, Stop: 28193, Start Num: 84
Candidate Starts for LarryKay_40:
(Start: 70 @28603 has 13 MA's), (Start: 84 @28576 has 76 MA's), (Start: 98 @28549 has 1 MA's), (Start: 104 @28531 has 3 MA's), (137, 28360), (139, 28348),

Gene: LastNadiia_46 Start: 32572, Stop: 32105, Start Num: 80
Candidate Starts for LastNadiia_46:
(Start: 80 @32572 has 24 MA's), (Start: 98 @32533 has 1 MA's), (Start: 104 @32515 has 3 MA's), (109, 32476), (141, 32317), (159, 32245), (169, 32203),

Gene: Legacy_34 Start: 25659, Stop: 26147, Start Num: 71
Candidate Starts for Legacy_34:

(47, 25611), (Start: 71 @25659 has 36 MA's), (103, 25731), (109, 25776), (127, 25878), (157, 25995), (195, 26115), (208, 26142),

Gene: Lemur_35 Start: 27801, Stop: 27205, Start Num: 89

Candidate Starts for Lemur_35:

(Start: 89 @27801 has 145 MA's), (169, 27441), (170, 27438), (185, 27402), (213, 27336), (214, 27333), (217, 27288), (218, 27276),

Gene: Lev2_32 Start: 26794, Stop: 26285, Start Num: 81

Candidate Starts for Lev2_32:

(Start: 81 @26794 has 39 MA's),

Gene: Leviticus_34 Start: 25688, Stop: 26176, Start Num: 71

Candidate Starts for Leviticus_34:

(47, 25640), (Start: 71 @25688 has 36 MA's), (103, 25760), (109, 25805), (127, 25907), (157, 26024), (195, 26144), (208, 26171),

Gene: Lika_34 Start: 26509, Stop: 26988, Start Num: 84

Candidate Starts for Lika_34:

(Start: 84 @26509 has 76 MA's), (108, 26590), (111, 26605), (146, 26800), (195, 26956), (201, 26971),

Gene: Lilbooboo_46 Start: 33605, Stop: 34009, Start Num: 91

Candidate Starts for Lilbooboo_46:

(Start: 26 @33455 has 1 MA's), (Start: 80 @33593 has 24 MA's), (Start: 91 @33605 has 10 MA's), (111, 33698), (121, 33752), (170, 33974),

Gene: Lilbunny_39 Start: 26386, Stop: 25997, Start Num: 86

Candidate Starts for Lilbunny_39:

(Start: 86 @26386 has 45 MA's), (121, 26242), (132, 26197), (139, 26155), (143, 26128),

Gene: Lilith_41 Start: 28569, Stop: 28186, Start Num: 84

Candidate Starts for Lilith_41:

(Start: 70 @28596 has 13 MA's), (Start: 84 @28569 has 76 MA's), (Start: 104 @28524 has 3 MA's), (137, 28353), (139, 28341),

Gene: LittleB_35 Start: 27805, Stop: 27209, Start Num: 89

Candidate Starts for LittleB_35:

(Start: 89 @27805 has 145 MA's), (169, 27445), (170, 27442), (185, 27406), (213, 27340), (214, 27337), (217, 27292), (218, 27280),

Gene: LittleCherry_32 Start: 26982, Stop: 26473, Start Num: 81

Candidate Starts for LittleCherry_32:

(Start: 81 @26982 has 39 MA's),

Gene: LittleGuy_35 Start: 27703, Stop: 27230, Start Num: 89

Candidate Starts for LittleGuy_35:

(Start: 89 @27703 has 145 MA's), (165, 27352), (170, 27340), (198, 27280), (204, 27268),

Gene: Lizz_71 Start: 50574, Stop: 50158, Start Num: 76

Candidate Starts for Lizz_71:

(Start: 76 @50574 has 1 MA's), (100, 50526), (Start: 104 @50514 has 3 MA's), (105, 50508), (107, 50493), (108, 50481), (143, 50295), (144, 50292), (158, 50250), (179, 50187), (183, 50175),

Gene: LochMonster_35 Start: 27843, Stop: 27247, Start Num: 89
Candidate Starts for LochMonster_35:
(Start: 89 @27843 has 145 MA's), (169, 27483), (170, 27480), (185, 27444), (213, 27378), (214, 27375), (217, 27330), (218, 27318),

Gene: Loofah_35 Start: 26915, Stop: 27400, Start Num: 81
Candidate Starts for Loofah_35:
(Start: 81 @26915 has 39 MA's), (108, 26999), (111, 27014), (195, 27368), (201, 27383),

Gene: Lorelei_35 Start: 26571, Stop: 27047, Start Num: 87
Candidate Starts for Lorelei_35:
(18, 26373), (24, 26409), (47, 26505), (Start: 81 @26565 has 39 MA's), (Start: 87 @26571 has 39 MA's), (108, 26649), (111, 26664), (146, 26859), (195, 27015), (201, 27030),

Gene: Lorenzo_35 Start: 27804, Stop: 27208, Start Num: 89
Candidate Starts for Lorenzo_35:
(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Louie6_40 Start: 28575, Stop: 28192, Start Num: 84
Candidate Starts for Louie6_40:
(Start: 70 @28602 has 13 MA's), (Start: 84 @28575 has 76 MA's), (Start: 98 @28548 has 1 MA's), (Start: 104 @28530 has 3 MA's), (137, 28359), (139, 28347),

Gene: Lozinak_146 Start: 79968, Stop: 80357, Start Num: 91
Candidate Starts for Lozinak_146:
(Start: 91 @79968 has 10 MA's), (120, 80106), (170, 80328), (177, 80346),

Gene: LugYA_43 Start: 28576, Stop: 28193, Start Num: 84
Candidate Starts for LugYA_43:
(Start: 70 @28603 has 13 MA's), (Start: 84 @28576 has 76 MA's), (Start: 104 @28531 has 3 MA's), (137, 28360), (139, 28348),

Gene: Lunsford_36 Start: 27801, Stop: 27205, Start Num: 89
Candidate Starts for Lunsford_36:
(Start: 89 @27801 has 145 MA's), (169, 27441), (170, 27438), (185, 27402), (213, 27336), (214, 27333), (217, 27288), (218, 27276),

Gene: Luthien_65 Start: 46459, Stop: 47010, Start Num: 63
Candidate Starts for Luthien_65:
(36, 46402), (Start: 63 @46459 has 31 MA's), (Start: 66 @46468 has 13 MA's), (111, 46600), (124, 46666), (127, 46693), (140, 46756), (152, 46801), (173, 46894), (177, 46903),

Gene: MA5_36 Start: 27451, Stop: 27065, Start Num: 86
Candidate Starts for MA5_36:
(Start: 86 @27451 has 45 MA's), (135, 27253),

Gene: MK4_36 Start: 27553, Stop: 27167, Start Num: 86
Candidate Starts for MK4_36:
(Start: 86 @27553 has 45 MA's),

Gene: MadMarie_41 Start: 28578, Stop: 28195, Start Num: 84
Candidate Starts for MadMarie_41:

(Start: 70 @28605 has 13 MA's), (Start: 84 @28578 has 76 MA's), (Start: 104 @28533 has 3 MA's),
(137, 28362), (139, 28350),

Gene: Madvan_64 Start: 46114, Stop: 46566, Start Num: 66

Candidate Starts for Madvan_64:

(36, 46048), (Start: 63 @46105 has 31 MA's), (Start: 66 @46114 has 13 MA's), (111, 46246), (124, 46312), (127, 46339), (140, 46402), (152, 46447),

Gene: Magel_66 Start: 46272, Stop: 46742, Start Num: 78

Candidate Starts for Magel_66:

(42, 46203), (Start: 55 @46227 has 15 MA's), (Start: 78 @46272 has 5 MA's), (Start: 98 @46311 has 1 MA's), (Start: 101 @46317 has 3 MA's), (111, 46377), (114, 46398), (122, 46434), (127, 46470), (143, 46554), (170, 46662), (176, 46677), (195, 46710), (196, 46713), (205, 46734),

Gene: Mainiac_41 Start: 28569, Stop: 28186, Start Num: 84

Candidate Starts for Mainiac_41:

(Start: 70 @28596 has 13 MA's), (Start: 84 @28569 has 76 MA's), (Start: 104 @28524 has 3 MA's),
(137, 28353), (139, 28341),

Gene: MajinBuu_64 Start: 46776, Stop: 47231, Start Num: 63

Candidate Starts for MajinBuu_64:

(Start: 33 @46713 has 1 MA's), (41, 46746), (Start: 63 @46776 has 31 MA's), (Start: 66 @46785 has 13 MA's), (111, 46917), (127, 47010), (152, 47118), (162, 47169),

Gene: Makima_44 Start: 31674, Stop: 31207, Start Num: 80

Candidate Starts for Makima_44:

(Start: 80 @31674 has 24 MA's), (Start: 98 @31635 has 1 MA's), (Start: 104 @31617 has 3 MA's),
(108, 31587), (109, 31578), (134, 31470), (141, 31419), (159, 31347), (169, 31305),

Gene: Malinsilva_43 Start: 28568, Stop: 28185, Start Num: 84

Candidate Starts for Malinsilva_43:

(Start: 70 @28595 has 13 MA's), (Start: 84 @28568 has 76 MA's), (Start: 104 @28523 has 3 MA's),
(137, 28352), (139, 28340),

Gene: Maneekul_34 Start: 26078, Stop: 26566, Start Num: 71

Candidate Starts for Maneekul_34:

(18, 25898), (47, 26030), (Start: 71 @26078 has 36 MA's), (103, 26150), (108, 26186), (109, 26195),
(118, 26243), (156, 26408), (157, 26414), (195, 26534), (208, 26561),

Gene: Manu_41 Start: 28401, Stop: 28018, Start Num: 84

Candidate Starts for Manu_41:

(13, 28629), (Start: 70 @28428 has 13 MA's), (Start: 84 @28401 has 76 MA's), (Start: 104 @28356 has 3 MA's), (137, 28185), (139, 28173),

Gene: Manuel_51 Start: 29161, Stop: 28748, Start Num: 95

Candidate Starts for Manuel_51:

(Start: 95 @29161 has 2 MA's), (Start: 98 @29143 has 1 MA's), (111, 29077), (136, 28960), (153, 28885),

Gene: MarQuardt_41 Start: 28577, Stop: 28194, Start Num: 84

Candidate Starts for MarQuardt_41:

(Start: 70 @28604 has 13 MA's), (Start: 84 @28577 has 76 MA's), (Start: 104 @28532 has 3 MA's),
(137, 28361), (139, 28349),

Gene: Marav_38 Start: 27473, Stop: 27934, Start Num: 80

Candidate Starts for Marav_38:

(Start: 80 @27473 has 24 MA's), (Start: 104 @27521 has 3 MA's), (108, 27554), (156, 27776), (157, 27782), (163, 27815), (195, 27902), (201, 27917),

Gene: Marchesa_36 Start: 27857, Stop: 27471, Start Num: 86

Candidate Starts for Marchesa_36:

(Start: 86 @27857 has 45 MA's), (135, 27659),

Gene: Mareelih_173 Start: 101362, Stop: 100859, Start Num: 83

Candidate Starts for Mareelih_173:

(Start: 83 @101362 has 5 MA's), (144, 101086), (152, 101065), (157, 101044), (194, 100924), (208, 100894),

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

Candidate Starts for Margo_35:

(Start: 85 @27838 has 10 MA's), (Start: 88 @27835 has 6 MA's), (Start: 104 @27790 has 3 MA's), (131, 27652), (172, 27475),

Gene: Marie_41 Start: 28575, Stop: 28192, Start Num: 84

Candidate Starts for Marie_41:

(Start: 70 @28602 has 13 MA's), (Start: 84 @28575 has 76 MA's), (Start: 104 @28530 has 3 MA's), (137, 28359), (139, 28347),

Gene: Marius_41 Start: 28401, Stop: 28018, Start Num: 84

Candidate Starts for Marius_41:

(13, 28626), (Start: 70 @28428 has 13 MA's), (Start: 84 @28401 has 76 MA's), (Start: 104 @28356 has 3 MA's), (137, 28185), (139, 28173),

Gene: MarysWell_31 Start: 27030, Stop: 26521, Start Num: 81

Candidate Starts for MarysWell_31:

(Start: 81 @27030 has 39 MA's),

Gene: Maverick_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Maverick_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Maxo_36 Start: 27800, Stop: 27324, Start Num: 89

Candidate Starts for Maxo_36:

(Start: 89 @27800 has 145 MA's), (Start: 104 @27755 has 3 MA's), (131, 27617), (165, 27452), (170, 27440), (198, 27380), (204, 27368),

Gene: Mayonnaise_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Mayonnaise_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Mazhar510_35 Start: 27805, Stop: 27209, Start Num: 89

Candidate Starts for Mazhar510_35:

(Start: 89 @27805 has 145 MA's), (169, 27445), (170, 27442), (185, 27406), (213, 27340), (214, 27337), (217, 27292), (218, 27280),

Gene: McFly_40 Start: 26616, Stop: 26224, Start Num: 82

Candidate Starts for McFly_40:

(Start: 82 @26616 has 52 MA's), (121, 26469), (132, 26424), (139, 26382), (143, 26355),

Gene: Medusa_36 Start: 27803, Stop: 27324, Start Num: 89

Candidate Starts for Medusa_36:

(Start: 89 @27803 has 145 MA's), (165, 27452), (170, 27440), (198, 27380), (204, 27368),

Gene: MeeZee_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for MeeZee_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Melvin_37 Start: 27802, Stop: 27323, Start Num: 89

Candidate Starts for Melvin_37:

(Start: 89 @27802 has 145 MA's), (165, 27451), (170, 27439), (198, 27379), (204, 27367),

Gene: Methuselah_39 Start: 28570, Stop: 28187, Start Num: 84

Candidate Starts for Methuselah_39:

(Start: 70 @28597 has 13 MA's), (Start: 84 @28570 has 76 MA's), (Start: 98 @28543 has 1 MA's), (Start: 104 @28525 has 3 MA's), (137, 28354), (139, 28342),

Gene: Micasa_32 Start: 26944, Stop: 26438, Start Num: 89

Candidate Starts for Micasa_32:

(Start: 89 @26944 has 145 MA's),

Gene: Microwolf_41 Start: 28577, Stop: 28194, Start Num: 84

Candidate Starts for Microwolf_41:

(Start: 70 @28604 has 13 MA's), (Start: 84 @28577 has 76 MA's), (Start: 104 @28532 has 3 MA's), (137, 28361), (139, 28349),

Gene: Midas2_32 Start: 27021, Stop: 26512, Start Num: 81

Candidate Starts for Midas2_32:

(Start: 81 @27021 has 39 MA's),

Gene: Milcery_32 Start: 26986, Stop: 26477, Start Num: 81

Candidate Starts for Milcery_32:

(Start: 81 @26986 has 39 MA's),

Gene: Millski_34 Start: 27808, Stop: 27212, Start Num: 89

Candidate Starts for Millski_34:

(Start: 89 @27808 has 145 MA's), (169, 27448), (170, 27445), (185, 27409), (213, 27343), (214, 27340), (217, 27295), (218, 27283),

Gene: Miramae_35 Start: 28016, Stop: 27537, Start Num: 89

Candidate Starts for Miramae_35:

(Start: 89 @28016 has 145 MA's), (108, 27938), (109, 27929), (128, 27842), (169, 27656), (176, 27638), (190, 27605),

Gene: Mireles_47 Start: 31215, Stop: 30748, Start Num: 80

Candidate Starts for Mireles_47:

(Start: 80 @31215 has 24 MA's), (Start: 98 @31176 has 1 MA's), (99, 31173), (Start: 104 @31158 has 3 MA's), (109, 31119), (159, 30888), (189, 30798), (200, 30771),

Gene: Misomonster_42 Start: 28573, Stop: 28190, Start Num: 84

Candidate Starts for Misomonster_42:

(Start: 70 @28600 has 13 MA's), (Start: 84 @28573 has 76 MA's), (Start: 98 @28546 has 1 MA's), (Start: 104 @28528 has 3 MA's), (137, 28357), (139, 28345),

Gene: MoneyMay_41 Start: 28602, Stop: 28192, Start Num: 70

Candidate Starts for MoneyMay_41:

(Start: 70 @28602 has 13 MA's), (Start: 84 @28575 has 76 MA's), (Start: 104 @28530 has 3 MA's), (137, 28359), (139, 28347),

Gene: Morpher26_35 Start: 27858, Stop: 27262, Start Num: 89

Candidate Starts for Morpher26_35:

(58, 27888), (Start: 89 @27858 has 145 MA's), (169, 27498), (170, 27495), (185, 27459), (213, 27393), (214, 27390), (217, 27345), (218, 27333),

Gene: Morrow_36 Start: 27804, Stop: 27328, Start Num: 89

Candidate Starts for Morrow_36:

(Start: 89 @27804 has 145 MA's), (Start: 104 @27759 has 3 MA's), (131, 27621), (165, 27456), (170, 27444), (198, 27384), (204, 27372),

Gene: Mossy_67 Start: 48112, Stop: 48564, Start Num: 63

Candidate Starts for Mossy_67:

(36, 48055), (Start: 63 @48112 has 31 MA's), (Start: 66 @48121 has 13 MA's), (111, 48250), (124, 48316), (127, 48343), (152, 48451),

Gene: MuchMore_43 Start: 28568, Stop: 28185, Start Num: 84

Candidate Starts for MuchMore_43:

(Start: 70 @28595 has 13 MA's), (Start: 84 @28568 has 76 MA's), (Start: 104 @28523 has 3 MA's), (137, 28352), (139, 28340),

Gene: Mundrea_35 Start: 27726, Stop: 27247, Start Num: 89

Candidate Starts for Mundrea_35:

(Start: 89 @27726 has 145 MA's), (169, 27366),

Gene: Mysticmoon_65 Start: 47500, Stop: 48009, Start Num: 63

Candidate Starts for Mysticmoon_65:

(43, 47476), (Start: 63 @47500 has 31 MA's), (Start: 66 @47509 has 13 MA's), (111, 47638), (114, 47659), (137, 47776), (143, 47815), (169, 47920), (188, 47965),

Gene: Nabi_35 Start: 26571, Stop: 27047, Start Num: 87

Candidate Starts for Nabi_35:

(18, 26373), (24, 26409), (47, 26505), (Start: 81 @26565 has 39 MA's), (Start: 87 @26571 has 39 MA's), (108, 26649), (111, 26664), (146, 26859), (195, 27015), (201, 27030),

Gene: Naca_33 Start: 27224, Stop: 26715, Start Num: 82

Candidate Starts for Naca_33:

(Start: 82 @27224 has 52 MA's),

Gene: Nadmeg_65 Start: 47342, Stop: 47797, Start Num: 63

Candidate Starts for Nadmeg_65:

(36, 47285), (45, 47321), (Start: 63 @47342 has 31 MA's), (Start: 66 @47351 has 13 MA's), (111, 47480), (127, 47573), (152, 47681), (162, 47732),

Gene: Naji_40 Start: 27983, Stop: 27597, Start Num: 82

Candidate Starts for Naji_40:

(Start: 82 @27983 has 52 MA's), (139, 27752),

Gene: Nanodon_36 Start: 26328, Stop: 26813, Start Num: 81

Candidate Starts for Nanodon_36:

(Start: 81 @26328 has 39 MA's), (108, 26412), (111, 26427), (145, 26616), (151, 26637), (156, 26655), (195, 26781), (201, 26796),

Gene: NearlyHeadless_32 Start: 26237, Stop: 25725, Start Num: 86

Candidate Starts for NearlyHeadless_32:

(Start: 86 @26237 has 45 MA's), (139, 26006), (178, 25856), (193, 25820),

Gene: Nebs_36 Start: 27798, Stop: 27322, Start Num: 89

Candidate Starts for Nebs_36:

(Start: 89 @27798 has 145 MA's), (Start: 104 @27753 has 3 MA's), (131, 27615), (165, 27450), (170, 27438), (198, 27378), (204, 27366),

Gene: Neeharika16_40 Start: 26609, Stop: 26217, Start Num: 82

Candidate Starts for Neeharika16_40:

(Start: 82 @26609 has 52 MA's), (121, 26462), (132, 26417), (139, 26375), (143, 26348),

Gene: Nemo27_35 Start: 27803, Stop: 27207, Start Num: 89

Candidate Starts for Nemo27_35:

(Start: 89 @27803 has 145 MA's), (169, 27443), (170, 27440), (185, 27404), (213, 27338), (214, 27335), (217, 27290), (218, 27278),

Gene: Newrala_40 Start: 26609, Stop: 26217, Start Num: 82

Candidate Starts for Newrala_40:

(Start: 82 @26609 has 52 MA's), (121, 26462), (132, 26417), (139, 26375), (143, 26348),

Gene: Nirvana_223 Start: 137189, Stop: 137701, Start Num: 80

Candidate Starts for Nirvana_223:

(12, 136931), (21, 137006), (Start: 80 @137189 has 24 MA's), (160, 137531), (163, 137543), (164, 137555), (170, 137573), (184, 137606),

Gene: Nishikigoi_36 Start: 26732, Stop: 27217, Start Num: 81

Candidate Starts for Nishikigoi_36:

(Start: 81 @26732 has 39 MA's), (Start: 104 @26783 has 3 MA's), (108, 26816), (111, 26831), (153, 27047), (195, 27185), (201, 27200),

Gene: Nithya_64 Start: 46208, Stop: 46717, Start Num: 63

Candidate Starts for Nithya_64:

(36, 46151), (Start: 63 @46208 has 31 MA's), (Start: 66 @46217 has 13 MA's), (111, 46349), (124, 46415), (127, 46442), (140, 46505), (152, 46550), (173, 46643), (203, 46703), (207, 46709),

Gene: NoPickles_64 Start: 45655, Stop: 46170, Start Num: 55

Candidate Starts for NoPickles_64:

(Start: 55 @45655 has 15 MA's), (Start: 98 @45739 has 1 MA's), (Start: 101 @45745 has 3 MA's), (111, 45805), (114, 45826), (122, 45862), (127, 45898), (143, 45982), (170, 46090), (195, 46138),

(196, 46141), (205, 46162),

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

Candidate Starts for Noella_35:

(Start: 85 @27813 has 10 MA's), (Start: 88 @27810 has 6 MA's), (Start: 104 @27765 has 3 MA's),
(131, 27627), (172, 27450),

Gene: Noelle_35 Start: 27902, Stop: 27306, Start Num: 89

Candidate Starts for Noelle_35:

(22, 28055), (58, 27932), (Start: 89 @27902 has 145 MA's), (170, 27539), (185, 27503), (214, 27434),
(217, 27389), (218, 27377),

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

Candidate Starts for Norbert_34:

(Start: 85 @27812 has 10 MA's), (Start: 88 @27809 has 6 MA's), (Start: 104 @27764 has 3 MA's),
(131, 27626), (172, 27449),

Gene: NorthStar_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for NorthStar_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214,
27336), (217, 27291), (218, 27279),

Gene: NotAPhaseMom_35 Start: 27808, Stop: 27212, Start Num: 89

Candidate Starts for NotAPhaseMom_35:

(Start: 89 @27808 has 145 MA's), (169, 27448), (170, 27445), (185, 27409), (213, 27343), (214,
27340), (217, 27295), (218, 27283),

Gene: Nyxis_35 Start: 27697, Stop: 27224, Start Num: 89

Candidate Starts for Nyxis_35:

(Start: 89 @27697 has 145 MA's), (165, 27346), (170, 27334), (198, 27274), (204, 27262),

Gene: Obama12_37 Start: 28102, Stop: 27662, Start Num: 89

Candidate Starts for Obama12_37:

(Start: 89 @28102 has 145 MA's), (169, 27742), (170, 27739),

Gene: Odesza_64 Start: 46216, Stop: 46686, Start Num: 78

Candidate Starts for Odesza_64:

(42, 46147), (Start: 55 @46171 has 15 MA's), (Start: 78 @46216 has 5 MA's), (Start: 98 @46255 has 1
MA's), (Start: 101 @46261 has 3 MA's), (111, 46321), (114, 46342), (122, 46378), (127, 46414), (143,
46498), (170, 46606), (176, 46621), (195, 46654), (196, 46657), (205, 46678),

Gene: OhMyWard_63 Start: 47880, Stop: 48323, Start Num: 66

Candidate Starts for OhMyWard_63:

(36, 47814), (Start: 63 @47871 has 31 MA's), (Start: 66 @47880 has 13 MA's), (111, 48009), (124,
48075), (127, 48102), (152, 48210), (163, 48264),

Gene: Ohfah_36 Start: 27798, Stop: 27322, Start Num: 89

Candidate Starts for Ohfah_36:

(Start: 89 @27798 has 145 MA's), (Start: 104 @27753 has 3 MA's), (131, 27615), (165, 27450), (170,
27438), (198, 27378), (204, 27366),

Gene: OlanP_40 Start: 28582, Stop: 28199, Start Num: 84

Candidate Starts for OlanP_40:

(Start: 70 @28609 has 13 MA's), (Start: 84 @28582 has 76 MA's), (Start: 104 @28537 has 3 MA's),
(137, 28366), (139, 28354),

Gene: OlgasClover_65 Start: 47388, Stop: 47843, Start Num: 63

Candidate Starts for OlgasClover_65:

(Start: 63 @47388 has 31 MA's), (Start: 66 @47397 has 13 MA's), (111, 47529), (127, 47622), (152, 47730), (162, 47781),

Gene: Olicious_54 Start: 29438, Stop: 29022, Start Num: 92

Candidate Starts for Olicious_54:

(67, 29480), (Start: 92 @29438 has 9 MA's), (111, 29351), (118, 29312), (127, 29261), (132, 29246),
(134, 29240),

Gene: Oliynyk_35 Start: 26042, Stop: 26530, Start Num: 71

Candidate Starts for Oliynyk_35:

(31, 25937), (47, 25994), (Start: 71 @26042 has 36 MA's), (103, 26114), (109, 26159), (127, 26261),
(157, 26378), (195, 26498), (208, 26525),

Gene: Ollie_41 Start: 28447, Stop: 28064, Start Num: 84

Candidate Starts for Ollie_41:

(Start: 70 @28474 has 13 MA's), (Start: 84 @28447 has 76 MA's), (Start: 104 @28402 has 3 MA's),
(137, 28231), (139, 28219),

Gene: Omar_37 Start: 26978, Stop: 27451, Start Num: 87

Candidate Starts for Omar_37:

(Start: 87 @26978 has 39 MA's), (106, 27032), (108, 27056), (109, 27065), (111, 27071), (195, 27419),
(201, 27434),

Gene: OneUp_130 Start: 77814, Stop: 78209, Start Num: 86

Candidate Starts for OneUp_130:

(51, 77748), (Start: 86 @77814 has 45 MA's), (120, 77958), (177, 78198),

Gene: Ozzie_34 Start: 25668, Stop: 26156, Start Num: 71

Candidate Starts for Ozzie_34:

(47, 25620), (Start: 71 @25668 has 36 MA's), (103, 25740), (109, 25785), (127, 25887), (157, 26004),
(195, 26124), (208, 26151),

Gene: OzzyJ_35 Start: 26047, Stop: 26535, Start Num: 71

Candidate Starts for OzzyJ_35:

(18, 25867), (24, 25903), (47, 25999), (Start: 71 @26047 has 36 MA's), (103, 26119), (108, 26155),
(109, 26164), (118, 26212), (156, 26377), (157, 26383), (195, 26503), (208, 26530),

Gene: P28Green_41 Start: 28578, Stop: 28195, Start Num: 84

Candidate Starts for P28Green_41:

(Start: 70 @28605 has 13 MA's), (Start: 84 @28578 has 76 MA's), (Start: 104 @28533 has 3 MA's),
(137, 28362), (139, 28350),

Gene: PGHhamlin_43 Start: 28568, Stop: 28185, Start Num: 84

Candidate Starts for PGHhamlin_43:

(Start: 70 @28595 has 13 MA's), (Start: 84 @28568 has 76 MA's), (Start: 104 @28523 has 3 MA's),
(137, 28352), (139, 28340),

Gene: Pablito_34 Start: 26313, Stop: 26771, Start Num: 80

Candidate Starts for Pablito_34:

(Start: 80 @26313 has 24 MA's), (108, 26394), (118, 26451), (156, 26616), (157, 26622), (165, 26673), (195, 26739), (201, 26754),

Gene: Paedore_34 Start: 26900, Stop: 27385, Start Num: 81

Candidate Starts for Paedore_34:

(Start: 81 @26900 has 39 MA's), (108, 26984), (111, 26999), (195, 27353), (201, 27368),

Gene: Palestino_34 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Palestino_34:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

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

Candidate Starts for Panamaxus_34:

(Start: 85 @27812 has 10 MA's), (Start: 88 @27809 has 6 MA's), (Start: 104 @27764 has 3 MA's), (131, 27626), (172, 27449),

Gene: Pavo_36 Start: 27721, Stop: 28125, Start Num: 87

Candidate Starts for Pavo_36:

(18, 27526), (49, 27661), (Start: 87 @27721 has 39 MA's), (106, 27775), (109, 27808), (116, 27841), (169, 28102), (171, 28108),

Gene: Pawn_40 Start: 28402, Stop: 28019, Start Num: 84

Candidate Starts for Pawn_40:

(13, 28633), (Start: 70 @28429 has 13 MA's), (Start: 84 @28402 has 76 MA's), (Start: 104 @28357 has 3 MA's), (137, 28186), (139, 28174),

Gene: Peaches_35 Start: 27803, Stop: 27207, Start Num: 89

Candidate Starts for Peaches_35:

(Start: 89 @27803 has 145 MA's), (169, 27443), (170, 27440), (185, 27404), (213, 27338), (214, 27335), (217, 27290), (218, 27278),

Gene: Pembroke_41 Start: 28577, Stop: 28194, Start Num: 84

Candidate Starts for Pembroke_41:

(Start: 70 @28604 has 13 MA's), (Start: 84 @28577 has 76 MA's), (Start: 104 @28532 has 3 MA's), (137, 28361), (139, 28349),

Gene: Penny1_41 Start: 28576, Stop: 28193, Start Num: 84

Candidate Starts for Penny1_41:

(Start: 70 @28603 has 13 MA's), (Start: 84 @28576 has 76 MA's), (Start: 104 @28531 has 3 MA's), (137, 28360), (139, 28348),

Gene: Percastrophe_54 Start: 29372, Stop: 28956, Start Num: 92

Candidate Starts for Percastrophe_54:

(67, 29414), (Start: 92 @29372 has 9 MA's), (111, 29285), (129, 29189), (130, 29186), (132, 29180), (149, 29102),

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

Candidate Starts for Perkunas_67:

(10, 46325), (14, 46370), (15, 46373), (16, 46400), (23, 46439), (29, 46475), (30, 46478), (32, 46490), (38, 46508), (Start: 55 @46556 has 15 MA's), (62, 46565), (109, 46700), (110, 46703), (111, 46706), (114, 46727), (122, 46763), (132, 46814), (143, 46883), (196, 47042), (205, 47063),

Gene: Perplexer_35 Start: 27834, Stop: 27259, Start Num: 89

Candidate Starts for Perplexer_35:

(58, 27864), (Start: 89 @27834 has 145 MA's), (170, 27471), (185, 27435), (214, 27366), (217, 27321), (218, 27309),

Gene: PerroGrande22_83 Start: 59419, Stop: 60045, Start Num: 79

Candidate Starts for PerroGrande22_83:

(Start: 79 @59419 has 1 MA's), (Start: 98 @59458 has 1 MA's), (Start: 101 @59464 has 3 MA's), (102, 59470), (111, 59524), (143, 59701), (163, 59779), (169, 59806), (170, 59809), (196, 59848), (212, 59887), (215, 59896),

Gene: PestoPenguin_66 Start: 46391, Stop: 46861, Start Num: 63

Candidate Starts for PestoPenguin_66:

(Start: 63 @46391 has 31 MA's), (Start: 66 @46400 has 13 MA's), (111, 46529), (127, 46622), (152, 46730), (173, 46823),

Gene: PeterPeter_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for PeterPeter_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: PetiteSangsue_35 Start: 27837, Stop: 27262, Start Num: 89

Candidate Starts for PetiteSangsue_35:

(58, 27867), (Start: 89 @27837 has 145 MA's), (170, 27474), (185, 27438), (214, 27369), (217, 27324), (218, 27312),

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

Candidate Starts for Petito_67:

(Start: 55 @47726 has 15 MA's), (62, 47735), (Start: 101 @47816 has 3 MA's), (109, 47870), (110, 47873), (111, 47876), (114, 47897), (122, 47933), (143, 48053), (157, 48098), (195, 48209), (196, 48212), (205, 48233),

Gene: PetterN_34 Start: 26587, Stop: 26075, Start Num: 82

Candidate Starts for PetterN_34:

(Start: 82 @26587 has 52 MA's),

Gene: Phacado_35 Start: 27803, Stop: 27207, Start Num: 89

Candidate Starts for Phacado_35:

(Start: 89 @27803 has 145 MA's), (169, 27443), (170, 27440), (185, 27404), (213, 27338), (214, 27335), (217, 27290), (218, 27278),

Gene: Phantastic_36 Start: 27584, Stop: 27198, Start Num: 86

Candidate Starts for Phantastic_36:

(Start: 86 @27584 has 45 MA's),

Gene: Phelipe_36 Start: 27804, Stop: 27325, Start Num: 89

Candidate Starts for Phelipe_36:

(Start: 89 @27804 has 145 MA's), (165, 27453), (170, 27441), (198, 27381), (204, 27369),

Gene: Phendrix_177 Start: 96622, Stop: 96095, Start Num: 66

Candidate Starts for Phendrix_177:

(Start: 66 @96622 has 13 MA's), (69, 96616), (Start: 101 @96547 has 3 MA's), (113, 96469), (152, 96298), (157, 96277), (170, 96214), (189, 96172), (194, 96160), (211, 96118),

Gene: Phepper_65 Start: 46347, Stop: 46808, Start Num: 63

Candidate Starts for Phepper_65:

(36, 46290), (Start: 63 @46347 has 31 MA's), (Start: 66 @46356 has 13 MA's), (111, 46488), (127, 46581), (140, 46644), (152, 46689),

Gene: Pherobrine_66 Start: 47919, Stop: 48428, Start Num: 63

Candidate Starts for Pherobrine_66:

(40, 47871), (43, 47886), (Start: 63 @47919 has 31 MA's), (Start: 66 @47928 has 13 MA's), (111, 48057), (114, 48078), (137, 48195), (143, 48234), (169, 48339), (188, 48384),

Gene: Phettuccine_34 Start: 25684, Stop: 26172, Start Num: 71

Candidate Starts for Phettuccine_34:

(47, 25636), (Start: 71 @25684 has 36 MA's), (103, 25756), (109, 25801), (127, 25903), (157, 26020), (195, 26140), (208, 26167),

Gene: Phighter1804_35 Start: 27846, Stop: 27250, Start Num: 89

Candidate Starts for Phighter1804_35:

(Start: 89 @27846 has 145 MA's), (169, 27486), (170, 27483), (185, 27447), (213, 27381), (214, 27378), (217, 27333), (218, 27321),

Gene: Phillis_32 Start: 26263, Stop: 25784, Start Num: 86

Candidate Starts for Phillis_32:

(Start: 86 @26263 has 45 MA's), (139, 26032), (178, 25882), (208, 25816), (210, 25804),

Gene: PhinkBoden_144 Start: 79554, Stop: 79946, Start Num: 86

Candidate Starts for PhinkBoden_144:

(Start: 86 @79554 has 45 MA's), (120, 79695), (170, 79917), (177, 79935),

Gene: PhishRPhriends_39 Start: 27579, Stop: 27196, Start Num: 84

Candidate Starts for PhishRPhriends_39:

(13, 27807), (Start: 70 @27606 has 13 MA's), (Start: 84 @27579 has 76 MA's), (Start: 104 @27534 has 3 MA's), (137, 27363), (139, 27351),

Gene: Phlorence_32 Start: 27081, Stop: 26572, Start Num: 81

Candidate Starts for Phlorence_32:

(Start: 81 @27081 has 39 MA's),

Gene: Phoebe_41 Start: 28568, Stop: 28185, Start Num: 84

Candidate Starts for Phoebe_41:

(Start: 70 @28595 has 13 MA's), (Start: 84 @28568 has 76 MA's), (Start: 104 @28523 has 3 MA's), (137, 28352), (139, 28340),

Gene: Phontbonne_35 Start: 27698, Stop: 27225, Start Num: 89

Candidate Starts for Phontbonne_35:

(Start: 89 @27698 has 145 MA's), (165, 27347), (170, 27335), (198, 27275), (204, 27263),

Gene: Phoxy_40 Start: 28571, Stop: 28188, Start Num: 84

Candidate Starts for Phoxy_40:

(Start: 70 @28598 has 13 MA's), (Start: 84 @28571 has 76 MA's), (Start: 98 @28544 has 1 MA's), (Start: 104 @28526 has 3 MA's), (137, 28355), (139, 28343),

Gene: Phranny_41 Start: 28387, Stop: 28004, Start Num: 84

Candidate Starts for Phranny_41:

(13, 28615), (Start: 70 @28414 has 13 MA's), (Start: 84 @28387 has 76 MA's), (Start: 104 @28342 has 3 MA's), (137, 28171), (139, 28159),

Gene: PickleBack_32 Start: 26795, Stop: 26286, Start Num: 81

Candidate Starts for PickleBack_32:

(Start: 81 @26795 has 39 MA's),

Gene: Pipcraft_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Pipcraft_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Pistachio_37 Start: 27346, Stop: 26960, Start Num: 86

Candidate Starts for Pistachio_37:

(Start: 86 @27346 has 45 MA's), (135, 27148),

Gene: Pocahontas_35 Start: 27806, Stop: 27378, Start Num: 88

Candidate Starts for Pocahontas_35:

(Start: 85 @27809 has 10 MA's), (Start: 88 @27806 has 6 MA's), (Start: 104 @27761 has 3 MA's), (131, 27623), (172, 27446),

Gene: Poco6_076 Start: 59210, Stop: 59797, Start Num: 79

Candidate Starts for Poco6_076:

(Start: 79 @59210 has 1 MA's), (Start: 98 @59246 has 1 MA's), (Start: 101 @59252 has 3 MA's), (111, 59312), (143, 59489), (163, 59567), (169, 59594), (170, 59597), (196, 59660), (212, 59699), (215, 59708),

Gene: Polymorphads_36 Start: 27797, Stop: 27321, Start Num: 89

Candidate Starts for Polymorphads_36:

(Start: 89 @27797 has 145 MA's), (Start: 104 @27752 has 3 MA's), (131, 27614), (165, 27449), (170, 27437), (198, 27377), (204, 27365),

Gene: Polyphemus_40 Start: 26608, Stop: 26216, Start Num: 82

Candidate Starts for Polyphemus_40:

(Start: 82 @26608 has 52 MA's), (121, 26461), (132, 26416), (139, 26374), (143, 26347),

Gene: Pomar16_40 Start: 28024, Stop: 27638, Start Num: 82

Candidate Starts for Pomar16_40:

(Start: 82 @28024 has 52 MA's), (139, 27793),

Gene: Ponzi_9 Start: 7221, Stop: 6748, Start Num: 52

Candidate Starts for Ponzi_9:

(5, 7536), (11, 7422), (Start: 52 @7221 has 1 MA's), (114, 7035), (130, 6957), (150, 6879), (170, 6792),

Gene: Popcicle_35 Start: 27806, Stop: 27378, Start Num: 88

Candidate Starts for Popcicle_35:

(Start: 85 @27809 has 10 MA's), (Start: 88 @27806 has 6 MA's), (Start: 104 @27761 has 3 MA's), (131, 27623), (172, 27446),

Gene: PotatoSplit_42 Start: 28576, Stop: 28193, Start Num: 84

Candidate Starts for PotatoSplit_42:

(Start: 70 @28603 has 13 MA's), (Start: 84 @28576 has 76 MA's), (Start: 104 @28531 has 3 MA's), (137, 28360), (139, 28348),

Gene: Priamo_41 Start: 26652, Stop: 26263, Start Num: 86

Candidate Starts for Priamo_41:

(Start: 86 @26652 has 45 MA's), (121, 26508), (132, 26463), (139, 26421), (143, 26394),

Gene: Prinash11_33 Start: 26949, Stop: 26440, Start Num: 81

Candidate Starts for Prinash11_33:

(Start: 81 @26949 has 39 MA's),

Gene: Provolone_36 Start: 27103, Stop: 27507, Start Num: 87

Candidate Starts for Provolone_36:

(18, 26908), (49, 27043), (Start: 87 @27103 has 39 MA's), (106, 27157), (109, 27190), (116, 27223), (169, 27484), (171, 27490),

Gene: Pumbaa_35 Start: 27749, Stop: 27276, Start Num: 89

Candidate Starts for Pumbaa_35:

(Start: 89 @27749 has 145 MA's), (165, 27398), (170, 27386), (198, 27326), (204, 27314),

Gene: Puppy_37 Start: 27416, Stop: 27030, Start Num: 86

Candidate Starts for Puppy_37:

(Start: 86 @27416 has 45 MA's), (135, 27218),

Gene: PurpleHaze_40 Start: 28400, Stop: 28017, Start Num: 84

Candidate Starts for PurpleHaze_40:

(13, 28628), (Start: 70 @28427 has 13 MA's), (Start: 84 @28400 has 76 MA's), (Start: 104 @28355 has 3 MA's), (137, 28184), (139, 28172),

Gene: Quantum_211 Start: 129324, Stop: 129833, Start Num: 80

Candidate Starts for Quantum_211:

(21, 129141), (Start: 80 @129324 has 24 MA's), (125, 129498), (155, 129615), (187, 129732), (214, 129798), (216, 129828),

Gene: QuinnKiro_34 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for QuinnKiro_34:

(Start: 85 @27812 has 10 MA's), (Start: 88 @27809 has 6 MA's), (Start: 104 @27764 has 3 MA's), (131, 27626), (172, 27449),

Gene: R4_35 Start: 27055, Stop: 27540, Start Num: 81

Candidate Starts for R4_35:

(Start: 81 @27055 has 39 MA's), (108, 27139), (111, 27154), (121, 27211), (145, 27343), (156, 27382), (195, 27508), (201, 27523),

Gene: Rana_35 Start: 26571, Stop: 27047, Start Num: 87

Candidate Starts for Rana_35:

(18, 26373), (24, 26409), (47, 26505), (Start: 81 @26565 has 39 MA's), (Start: 87 @26571 has 39 MA's), (108, 26649), (111, 26664), (146, 26859), (195, 27015), (201, 27030),

Gene: Reba_41 Start: 28060, Stop: 27677, Start Num: 84

Candidate Starts for Reba_41:

(13, 28288), (Start: 70 @28087 has 13 MA's), (Start: 84 @28060 has 76 MA's), (Start: 104 @28015 has 3 MA's), (137, 27844), (139, 27832),

Gene: RedBear_35 Start: 26236, Stop: 26655, Start Num: 87

Candidate Starts for RedBear_35:

(Start: 87 @26236 has 39 MA's), (103, 26281), (Start: 104 @26284 has 3 MA's), (109, 26326), (119, 26377), (121, 26386), (127, 26428), (148, 26530),

Gene: Relief_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Relief_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: RemusLoopin_46 Start: 34126, Stop: 34542, Start Num: 80

Candidate Starts for RemusLoopin_46:

(Start: 80 @34126 has 24 MA's), (108, 34216), (111, 34231), (113, 34249),

Gene: ResDef_35 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for ResDef_35:

(Start: 85 @27812 has 10 MA's), (Start: 88 @27809 has 6 MA's), (Start: 104 @27764 has 3 MA's), (131, 27626), (172, 27449),

Gene: RhynO_36 Start: 27673, Stop: 27197, Start Num: 89

Candidate Starts for RhynO_36:

(58, 27709), (Start: 89 @27673 has 145 MA's), (Start: 104 @27628 has 3 MA's), (108, 27595), (109, 27586), (110, 27583), (164, 27331), (169, 27316), (176, 27298),

Gene: Rickmore_61 Start: 44723, Stop: 45232, Start Num: 63

Candidate Starts for Rickmore_61:

(Start: 33 @44660 has 1 MA's), (41, 44693), (Start: 63 @44723 has 31 MA's), (111, 44864), (124, 44930), (127, 44957), (140, 45020), (152, 45065), (162, 45116), (173, 45158), (177, 45167), (203, 45218), (207, 45224),

Gene: Rifter_40 Start: 26392, Stop: 26003, Start Num: 82

Candidate Starts for Rifter_40:

(Start: 82 @26392 has 52 MA's), (139, 26161), (143, 26134), (169, 26029),

Gene: Roary_32 Start: 26183, Stop: 25671, Start Num: 86

Candidate Starts for Roary_32:

(Start: 86 @26183 has 45 MA's), (139, 25952), (178, 25802), (193, 25766),

Gene: Roberts_43 Start: 29940, Stop: 29479, Start Num: 91

Candidate Starts for Roberts_43:

(Start: 91 @29940 has 10 MA's), (Start: 98 @29913 has 1 MA's), (113, 29832), (126, 29772), (134, 29748), (159, 29625),

Gene: Rockstar_36 Start: 27560, Stop: 27174, Start Num: 86

Candidate Starts for Rockstar_36:

(Start: 86 @27560 has 45 MA's),

Gene: Roimos_36 Start: 27775, Stop: 27389, Start Num: 86

Candidate Starts for Roimos_36:

(Start: 86 @27775 has 45 MA's), (135, 27577),

Gene: Roksolana_41 Start: 26646, Stop: 26254, Start Num: 82

Candidate Starts for Roksolana_41:

(Start: 82 @26646 has 52 MA's), (121, 26499), (132, 26454), (139, 26412), (143, 26385),

Gene: Romero_54 Start: 29431, Stop: 29015, Start Num: 92

Candidate Starts for Romero_54:

(67, 29473), (Start: 92 @29431 has 9 MA's), (111, 29344), (118, 29305), (127, 29254), (132, 29239), (134, 29233),

Gene: Romney_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Romney_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Roney_65 Start: 46382, Stop: 46852, Start Num: 78

Candidate Starts for Roney_65:

(42, 46313), (Start: 55 @46337 has 15 MA's), (Start: 78 @46382 has 5 MA's), (Start: 98 @46421 has 1 MA's), (Start: 101 @46427 has 3 MA's), (111, 46487), (114, 46508), (122, 46544), (127, 46580), (143, 46664), (170, 46772), (176, 46787), (195, 46820), (196, 46823), (205, 46844),

Gene: Rooney_71 Start: 50674, Stop: 50294, Start Num: 97

Candidate Starts for Rooney_71:

(Start: 76 @50710 has 1 MA's), (Start: 97 @50674 has 2 MA's), (100, 50662), (Start: 104 @50650 has 3 MA's), (105, 50644), (107, 50629), (109, 50608), (140, 50452), (144, 50428), (157, 50389), (158, 50386), (174, 50332), (179, 50323),

Gene: Roosevelt_35 Start: 27806, Stop: 27210, Start Num: 89

Candidate Starts for Roosevelt_35:

(Start: 89 @27806 has 145 MA's), (169, 27446), (170, 27443), (185, 27407), (213, 27341), (214, 27338), (217, 27293), (218, 27281),

Gene: RosePharie_55 Start: 29769, Stop: 29353, Start Num: 93

Candidate Starts for RosePharie_55:

(Start: 83 @29781 has 5 MA's), (Start: 93 @29769 has 1 MA's), (Start: 98 @29748 has 1 MA's), (111, 29682), (153, 29490),

Gene: Rowa_49 Start: 35076, Stop: 35489, Start Num: 78

Candidate Starts for Rowa_49:

(Start: 78 @35076 has 5 MA's), (109, 35175), (113, 35199), (152, 35373), (169, 35454),

Gene: Rowdy_39 Start: 27581, Stop: 27105, Start Num: 89

Candidate Starts for Rowdy_39:

(58, 27617), (Start: 89 @27581 has 145 MA's), (Start: 104 @27536 has 3 MA's), (108, 27503), (109, 27494), (110, 27491), (164, 27239), (169, 27224), (176, 27206),

Gene: Ruin_35 Start: 27800, Stop: 27204, Start Num: 89

Candidate Starts for Ruin_35:

(Start: 89 @27800 has 145 MA's), (169, 27440), (170, 27437), (185, 27401), (213, 27335), (214, 27332), (217, 27287), (218, 27275),

Gene: Rummer_40 Start: 28571, Stop: 28188, Start Num: 84

Candidate Starts for Rummer_40:

(Start: 70 @28598 has 13 MA's), (Start: 84 @28571 has 76 MA's), (Start: 98 @28544 has 1 MA's),
(Start: 104 @28526 has 3 MA's), (137, 28355), (139, 28343),

Gene: Runhaar_64 Start: 46158, Stop: 46613, Start Num: 63

Candidate Starts for Runhaar_64:

(36, 46101), (45, 46137), (Start: 63 @46158 has 31 MA's), (Start: 66 @46167 has 13 MA's), (111,
46299), (124, 46365), (127, 46392), (132, 46407), (152, 46500), (162, 46551),

Gene: RunningOnE_13 Start: 5428, Stop: 5018, Start Num: 83

Candidate Starts for RunningOnE_13:

(59, 5476), (64, 5467), (75, 5440), (77, 5437), (Start: 83 @5428 has 5 MA's), (Start: 98 @5392 has 1
MA's), (Start: 104 @5374 has 3 MA's), (111, 5326), (163, 5092),

Gene: Rusticus_35 Start: 26042, Stop: 26530, Start Num: 71

Candidate Starts for Rusticus_35:

(31, 25937), (47, 25994), (Start: 71 @26042 has 36 MA's), (103, 26114), (109, 26159), (127, 26261),
(157, 26378), (195, 26498), (208, 26525),

Gene: Sabertooth_35 Start: 27803, Stop: 27207, Start Num: 89

Candidate Starts for Sabertooth_35:

(Start: 89 @27803 has 145 MA's), (169, 27443), (170, 27440), (185, 27404), (213, 27338), (214,
27335), (217, 27290), (218, 27278),

Gene: Sabia_41 Start: 28596, Stop: 28186, Start Num: 70

Candidate Starts for Sabia_41:

(Start: 70 @28596 has 13 MA's), (Start: 84 @28569 has 76 MA's), (Start: 104 @28524 has 3 MA's),
(137, 28353), (139, 28341),

Gene: Sabinator_40 Start: 28574, Stop: 28191, Start Num: 84

Candidate Starts for Sabinator_40:

(Start: 70 @28601 has 13 MA's), (Start: 84 @28574 has 76 MA's), (Start: 104 @28529 has 3 MA's),
(137, 28358), (139, 28346),

Gene: Saftant_35 Start: 27670, Stop: 28074, Start Num: 87

Candidate Starts for Saftant_35:

(Start: 87 @27670 has 39 MA's), (106, 27724), (109, 27757), (116, 27790), (157, 27991), (169, 28051),
(171, 28057),

Gene: Samora_48 Start: 34458, Stop: 34883, Start Num: 80

Candidate Starts for Samora_48:

(Start: 80 @34458 has 24 MA's), (Start: 91 @34470 has 10 MA's), (108, 34548), (111, 34563), (121,
34617), (170, 34839), (175, 34851), (181, 34863), (185, 34875),

Gene: SarahRose_34 Start: 26055, Stop: 26543, Start Num: 71

Candidate Starts for SarahRose_34:

(Start: 71 @26055 has 36 MA's), (103, 26127), (108, 26163), (109, 26172), (118, 26220), (156, 26385),
(157, 26391), (195, 26511), (208, 26538),

Gene: Sarkar_212 Start: 129354, Stop: 129863, Start Num: 80

Candidate Starts for Sarkar_212:

(21, 129171), (Start: 80 @129354 has 24 MA's), (125, 129528), (155, 129645), (187, 129762), (214,
129828), (216, 129858),

Gene: SassyC_76 Start: 51643, Stop: 51233, Start Num: 76

Candidate Starts for SassyC_76:

(Start: 76 @51643 has 1 MA's), (Start: 104 @51589 has 3 MA's), (112, 51538), (140, 51391), (168, 51286), (179, 51262),

Gene: Satis_212 Start: 129667, Stop: 130176, Start Num: 80

Candidate Starts for Satis_212:

(21, 129484), (Start: 80 @129667 has 24 MA's), (125, 129841), (155, 129958), (187, 130075), (214, 130141), (216, 130171),

Gene: SaturnRing_36 Start: 27799, Stop: 27413, Start Num: 86

Candidate Starts for SaturnRing_36:

(Start: 86 @27799 has 45 MA's), (135, 27601),

Gene: Scamp_35 Start: 27806, Stop: 27210, Start Num: 89

Candidate Starts for Scamp_35:

(Start: 89 @27806 has 145 MA's), (169, 27446), (170, 27443), (185, 27407), (213, 27341), (214, 27338), (217, 27293), (218, 27281),

Gene: Schwartz33_66 Start: 46646, Stop: 47134, Start Num: 63

Candidate Starts for Schwartz33_66:

(60, 46640), (Start: 63 @46646 has 31 MA's), (Start: 101 @46724 has 3 MA's), (111, 46784), (137, 46922), (143, 46961),

Gene: Scorpia_34 Start: 26664, Stop: 26152, Start Num: 82

Candidate Starts for Scorpia_34:

(Start: 82 @26664 has 52 MA's),

Gene: Scout_36 Start: 27106, Stop: 26720, Start Num: 86

Candidate Starts for Scout_36:

(Start: 86 @27106 has 45 MA's), (135, 26908),

Gene: Secretariat_64 Start: 45608, Stop: 46093, Start Num: 63

Candidate Starts for Secretariat_64:

(16, 45440), (23, 45479), (27, 45497), (43, 45575), (48, 45584), (Start: 63 @45608 has 31 MA's), (Start: 101 @45683 has 3 MA's), (111, 45743), (122, 45800), (137, 45881), (142, 45917), (143, 45920),

Gene: SenorClean_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for SenorClean_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: ShaggyRogers_64 Start: 46127, Stop: 46597, Start Num: 63

Candidate Starts for ShaggyRogers_64:

(Start: 63 @46127 has 31 MA's), (Start: 66 @46136 has 13 MA's), (111, 46265), (127, 46358), (152, 46466), (173, 46559),

Gene: Shaka_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Shaka_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Shapes_39 Start: 27581, Stop: 27105, Start Num: 89

Candidate Starts for Shapes_39:

(58, 27617), (Start: 89 @27581 has 145 MA's), (Start: 104 @27536 has 3 MA's), (108, 27503), (109, 27494), (110, 27491), (164, 27239), (169, 27224), (176, 27206),

Gene: Shawty_45 Start: 33157, Stop: 33510, Start Num: 104

Candidate Starts for Shawty_45:

(60, 33064), (65, 33076), (73, 33097), (Start: 104 @33157 has 3 MA's), (111, 33205), (170, 33481), (181, 33502),

Gene: SheldonCooper_37 Start: 28101, Stop: 27661, Start Num: 89

Candidate Starts for SheldonCooper_37:

(Start: 89 @28101 has 145 MA's), (169, 27741), (170, 27738),

Gene: Shygu2_35 Start: 27798, Stop: 27202, Start Num: 89

Candidate Starts for Shygu2_35:

(Start: 89 @27798 has 145 MA's), (169, 27438), (170, 27435), (185, 27399), (213, 27333), (214, 27330), (217, 27285), (218, 27273),

Gene: Sixama_175 Start: 101856, Stop: 101392, Start Num: 101

Candidate Starts for Sixama_175:

(Start: 83 @101895 has 5 MA's), (Start: 101 @101856 has 3 MA's), (144, 101619), (152, 101598), (165, 101526), (167, 101520), (173, 101505), (194, 101457), (208, 101427),

Gene: Skipitt_35 Start: 27801, Stop: 27205, Start Num: 89

Candidate Starts for Skipitt_35:

(Start: 89 @27801 has 145 MA's), (169, 27441), (170, 27438), (185, 27402), (213, 27336), (214, 27333), (217, 27288), (218, 27276),

Gene: SmellyB_40 Start: 26616, Stop: 26224, Start Num: 82

Candidate Starts for SmellyB_40:

(Start: 82 @26616 has 52 MA's), (121, 26469), (132, 26424), (139, 26382), (143, 26355),

Gene: Smoothie_147 Start: 79538, Stop: 79933, Start Num: 86

Candidate Starts for Smoothie_147:

(1, 78968), (2, 79082), (3, 79109), (4, 79139), (6, 79232), (17, 79331), (25, 79382), (28, 79394), (39, 79445), (44, 79466), (53, 79481), (Start: 86 @79538 has 45 MA's), (120, 79682), (170, 79904), (177, 79922),

Gene: Snickers_41 Start: 28576, Stop: 28166, Start Num: 70

Candidate Starts for Snickers_41:

(Start: 70 @28576 has 13 MA's), (Start: 84 @28549 has 76 MA's), (Start: 104 @28504 has 3 MA's), (137, 28333), (139, 28321),

Gene: Snorlax_34 Start: 26059, Stop: 26547, Start Num: 71

Candidate Starts for Snorlax_34:

(18, 25879), (24, 25915), (47, 26011), (Start: 71 @26059 has 36 MA's), (103, 26131), (108, 26167), (109, 26176), (118, 26224), (156, 26389), (157, 26395), (195, 26515), (208, 26542),

Gene: SoYo_41 Start: 28514, Stop: 28104, Start Num: 70

Candidate Starts for SoYo_41:

(Start: 70 @28514 has 13 MA's), (Start: 84 @28487 has 76 MA's), (Start: 104 @28442 has 3 MA's), (137, 28271), (139, 28259),

Gene: SoilDragon_40 Start: 28021, Stop: 27638, Start Num: 84

Candidate Starts for SoilDragon_40:

(Start: 70 @28048 has 13 MA's), (Start: 84 @28021 has 76 MA's), (Start: 104 @27976 has 3 MA's), (137, 27805), (139, 27793),

Gene: Soshari_42 Start: 28570, Stop: 28187, Start Num: 84

Candidate Starts for Soshari_42:

(Start: 70 @28597 has 13 MA's), (Start: 84 @28570 has 76 MA's), (Start: 98 @28543 has 1 MA's), (Start: 104 @28525 has 3 MA's), (137, 28354), (139, 28342),

Gene: South40_34 Start: 26236, Stop: 26655, Start Num: 87

Candidate Starts for South40_34:

(Start: 87 @26236 has 39 MA's), (103, 26281), (Start: 104 @26284 has 3 MA's), (109, 26326), (119, 26377), (121, 26386), (127, 26428), (148, 26530),

Gene: Sparxx_36 Start: 27799, Stop: 27323, Start Num: 89

Candidate Starts for Sparxx_36:

(Start: 89 @27799 has 145 MA's), (Start: 104 @27754 has 3 MA's), (131, 27616), (165, 27451), (170, 27439), (198, 27379), (204, 27367),

Gene: Speedwell_40 Start: 28980, Stop: 29384, Start Num: 87

Candidate Starts for Speedwell_40:

(Start: 87 @28980 has 39 MA's), (106, 29034), (108, 29058), (109, 29067), (119, 29118), (127, 29169), (157, 29301), (169, 29361), (171, 29367),

Gene: Spike509_40 Start: 28571, Stop: 28188, Start Num: 84

Candidate Starts for Spike509_40:

(Start: 70 @28598 has 13 MA's), (Start: 84 @28571 has 76 MA's), (Start: 98 @28544 has 1 MA's), (Start: 104 @28526 has 3 MA's), (137, 28355), (139, 28343),

Gene: Spino_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Spino_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Spooks_13 Start: 9516, Stop: 9091, Start Num: 96

Candidate Starts for Spooks_13:

(50, 9597), (56, 9585), (Start: 96 @9516 has 1 MA's), (108, 9456), (111, 9441), (119, 9396), (132, 9333), (143, 9276), (157, 9231), (167, 9171), (169, 9168), (198, 9105),

Gene: SqueakyClean_34 Start: 26829, Stop: 27302, Start Num: 87

Candidate Starts for SqueakyClean_34:

(Start: 87 @26829 has 39 MA's), (Start: 104 @26874 has 3 MA's), (106, 26883), (108, 26907), (109, 26916), (116, 26949), (142, 27099), (195, 27270), (201, 27285),

Gene: Stagni_41 Start: 28578, Stop: 28195, Start Num: 84

Candidate Starts for Stagni_41:

(Start: 70 @28605 has 13 MA's), (Start: 84 @28578 has 76 MA's), (Start: 104 @28533 has 3 MA's), (137, 28362), (139, 28350),

Gene: StarStuff_40 Start: 27986, Stop: 27600, Start Num: 82

Candidate Starts for StarStuff_40:

(Start: 82 @27986 has 52 MA's), (139, 27755),

Gene: Stasia_36 Start: 28128, Stop: 27649, Start Num: 89

Candidate Starts for Stasia_36:

(58, 28158), (Start: 89 @28128 has 145 MA's), (169, 27768), (176, 27750),

Gene: SteMason_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for SteMason_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: StepMih_41 Start: 28569, Stop: 28186, Start Num: 84

Candidate Starts for StepMih_41:

(Start: 70 @28596 has 13 MA's), (Start: 84 @28569 has 76 MA's), (Start: 104 @28524 has 3 MA's), (137, 28353), (139, 28341),

Gene: Stephig9_32 Start: 26211, Stop: 25699, Start Num: 86

Candidate Starts for Stephig9_32:

(Start: 86 @26211 has 45 MA's), (139, 25980), (178, 25830), (193, 25794),

Gene: Stink_36 Start: 28296, Stop: 27874, Start Num: 89

Candidate Starts for Stink_36:

(Start: 89 @28296 has 145 MA's), (Start: 104 @28251 has 3 MA's),

Gene: Studio_45 Start: 31294, Stop: 30833, Start Num: 91

Candidate Starts for Studio_45:

(Start: 91 @31294 has 10 MA's), (Start: 98 @31267 has 1 MA's), (113, 31186), (126, 31126), (134, 31102), (159, 30979), (200, 30862),

Gene: Success_13 Start: 8706, Stop: 8326, Start Num: 104

Candidate Starts for Success_13:

(50, 8814), (56, 8802), (Start: 104 @8706 has 3 MA's), (115, 8634), (117, 8625), (142, 8496), (161, 8421), (167, 8388), (169, 8385), (191, 8337),

Gene: Sudan_35 Start: 27550, Stop: 27954, Start Num: 87

Candidate Starts for Sudan_35:

(Start: 87 @27550 has 39 MA's), (106, 27604), (109, 27637), (116, 27670), (169, 27931), (171, 27937),

Gene: Sujidade_35 Start: 26794, Stop: 27273, Start Num: 84

Candidate Starts for Sujidade_35:

(Start: 84 @26794 has 76 MA's), (108, 26875), (111, 26890), (146, 27085), (195, 27241), (201, 27256),

Gene: Sultana_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Sultana_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: SunkenRoot_35 Start: 28186, Stop: 28590, Start Num: 87

Candidate Starts for SunkenRoot_35:

(49, 28123), (Start: 87 @28186 has 39 MA's), (Start: 104 @28231 has 3 MA's), (106, 28240), (108, 28264), (119, 28324), (157, 28507), (169, 28567), (171, 28573),

Gene: SunsetPointe_34 Start: 25675, Stop: 26163, Start Num: 71

Candidate Starts for SunsetPointe_34:

(47, 25627), (Start: 71 @25675 has 36 MA's), (103, 25747), (109, 25792), (127, 25894), (157, 26011), (195, 26131), (208, 26158),

Gene: SuperAwesome_40 Start: 26609, Stop: 26217, Start Num: 82

Candidate Starts for SuperAwesome_40:

(Start: 82 @26609 has 52 MA's), (121, 26462), (132, 26417), (139, 26375), (143, 26348),

Gene: Superstar_38 Start: 27847, Stop: 28332, Start Num: 81

Candidate Starts for Superstar_38:

(Start: 81 @27847 has 39 MA's), (108, 27931), (111, 27946), (145, 28135), (195, 28300), (201, 28315),

Gene: SweetCrkHerbs_67 Start: 46248, Stop: 46763, Start Num: 55

Candidate Starts for SweetCrkHerbs_67:

(10, 46017), (14, 46062), (15, 46065), (16, 46092), (23, 46131), (29, 46167), (30, 46170), (32, 46182), (38, 46200), (Start: 55 @46248 has 15 MA's), (62, 46257), (109, 46392), (110, 46395), (111, 46398), (114, 46419), (122, 46455), (132, 46506), (143, 46575), (196, 46734), (205, 46755),

Gene: Swirley_32 Start: 26951, Stop: 26445, Start Num: 89

Candidate Starts for Swirley_32:

(Start: 89 @26951 has 145 MA's),

Gene: SydNat_32 Start: 27230, Stop: 26724, Start Num: 89

Candidate Starts for SydNat_32:

(Start: 89 @27230 has 145 MA's),

Gene: TG1_40 Start: 31978, Stop: 32517, Start Num: 91

Candidate Starts for TG1_40:

(72, 31954), (Start: 91 @31978 has 10 MA's), (Start: 98 @32005 has 1 MA's), (Start: 104 @32023 has 3 MA's), (109, 32065), (111, 32071), (113, 32089), (184, 32380),

Gene: TMaxx_45 Start: 30861, Stop: 30397, Start Num: 80

Candidate Starts for TMaxx_45:

(Start: 80 @30861 has 24 MA's), (Start: 98 @30822 has 1 MA's), (Start: 104 @30804 has 3 MA's), (109, 30765), (159, 30534),

Gene: TNguyen7_36 Start: 27763, Stop: 27377, Start Num: 86

Candidate Starts for TNguyen7_36:

(Start: 86 @27763 has 45 MA's), (135, 27565),

Gene: TagePhighter_36 Start: 26059, Stop: 26547, Start Num: 71

Candidate Starts for TagePhighter_36:

(18, 25879), (24, 25915), (47, 26011), (Start: 71 @26059 has 36 MA's), (103, 26131), (108, 26167), (109, 26176), (118, 26224), (156, 26389), (157, 26395), (195, 26515), (208, 26542),

Gene: Tairn4Wing_67 Start: 46421, Stop: 46846, Start Num: 101

Candidate Starts for Tairn4Wing_67:

(Start: 55 @46331 has 15 MA's), (Start: 98 @46415 has 1 MA's), (Start: 101 @46421 has 3 MA's), (111, 46481), (114, 46502), (122, 46538), (127, 46574), (143, 46658), (170, 46766), (176, 46781), (195, 46814), (196, 46817), (205, 46838),

Gene: Talon44_67 Start: 46590, Stop: 47105, Start Num: 55

Candidate Starts for Talon44_67:

(10, 46359), (14, 46404), (15, 46407), (16, 46434), (23, 46473), (29, 46509), (30, 46512), (32, 46524), (38, 46542), (Start: 55 @46590 has 15 MA's), (62, 46599), (109, 46734), (110, 46737), (111, 46740), (114, 46761), (122, 46797), (132, 46848), (143, 46917), (196, 47076), (205, 47097),

Gene: Tanis_65 Start: 46157, Stop: 46672, Start Num: 55

Candidate Starts for Tanis_65:

(42, 46133), (Start: 55 @46157 has 15 MA's), (Start: 78 @46202 has 5 MA's), (Start: 98 @46241 has 1 MA's), (Start: 101 @46247 has 3 MA's), (111, 46307), (114, 46328), (122, 46364), (127, 46400), (133, 46418), (143, 46484), (170, 46592), (176, 46607), (195, 46640), (196, 46643), (205, 46664),

Gene: Taquarus_35 Start: 27807, Stop: 27211, Start Num: 89

Candidate Starts for Taquarus_35:

(Start: 89 @27807 has 145 MA's), (169, 27447), (170, 27444), (185, 27408), (213, 27342), (214, 27339), (217, 27294), (218, 27282),

Gene: Tarynearal_31 Start: 26979, Stop: 26470, Start Num: 81

Candidate Starts for Tarynearal_31:

(Start: 81 @26979 has 39 MA's),

Gene: Taurus_41 Start: 28575, Stop: 28192, Start Num: 84

Candidate Starts for Taurus_41:

(Start: 70 @28602 has 13 MA's), (Start: 84 @28575 has 76 MA's), (Start: 104 @28530 has 3 MA's), (137, 28359), (139, 28347),

Gene: Tefunt_36 Start: 26734, Stop: 27219, Start Num: 81

Candidate Starts for Tefunt_36:

(Start: 81 @26734 has 39 MA's), (Start: 104 @26785 has 3 MA's), (108, 26818), (111, 26833), (153, 27049), (195, 27187), (201, 27202),

Gene: Temprado_40 Start: 26617, Stop: 26225, Start Num: 82

Candidate Starts for Temprado_40:

(Start: 82 @26617 has 52 MA's), (121, 26470), (132, 26425), (139, 26383), (143, 26356),

Gene: TenaciousP_64 Start: 47760, Stop: 48215, Start Num: 63

Candidate Starts for TenaciousP_64:

(Start: 33 @47697 has 1 MA's), (41, 47730), (Start: 63 @47760 has 31 MA's), (Start: 66 @47769 has 13 MA's), (111, 47901), (127, 47994), (152, 48102), (162, 48153),

Gene: Texage_34 Start: 27813, Stop: 27382, Start Num: 85

Candidate Starts for Texage_34:

(Start: 85 @27813 has 10 MA's), (Start: 88 @27810 has 6 MA's), (Start: 104 @27765 has 3 MA's), (131, 27627), (172, 27450),

Gene: Thanksgivukkah_35 Start: 27805, Stop: 27209, Start Num: 89

Candidate Starts for Thanksgivukkah_35:

(Start: 89 @27805 has 145 MA's), (169, 27445), (170, 27442), (185, 27406), (213, 27340), (214, 27337), (217, 27292), (218, 27280),

Gene: Theia_30 Start: 27003, Stop: 26494, Start Num: 81

Candidate Starts for Theia_30:

(Start: 81 @27003 has 39 MA's),

Gene: Thestral_36 Start: 26939, Stop: 27412, Start Num: 87

Candidate Starts for Thestral_36:

(Start: 87 @26939 has 39 MA's), (Start: 104 @26984 has 3 MA's), (106, 26993), (108, 27017), (116, 27059), (127, 27128), (195, 27380), (201, 27395),

Gene: Tiffany_41 Start: 28461, Stop: 28078, Start Num: 84

Candidate Starts for Tiffany_41:

(Start: 70 @28488 has 13 MA's), (Start: 84 @28461 has 76 MA's), (Start: 104 @28416 has 3 MA's), (137, 28245), (139, 28233),

Gene: Tiger_32 Start: 26872, Stop: 26363, Start Num: 81

Candidate Starts for Tiger_32:

(Start: 81 @26872 has 39 MA's),

Gene: Timshel_36 Start: 30226, Stop: 29732, Start Num: 85

Candidate Starts for Timshel_36:

(Start: 82 @30229 has 52 MA's), (Start: 85 @30226 has 10 MA's), (128, 30049), (169, 29863), (170, 29860), (206, 29782), (209, 29779),

Gene: TinaBelcher_35 Start: 26886, Stop: 27359, Start Num: 87

Candidate Starts for TinaBelcher_35:

(Start: 87 @26886 has 39 MA's), (Start: 104 @26931 has 3 MA's), (106, 26940), (108, 26964), (116, 27006), (127, 27075), (195, 27327), (201, 27342),

Gene: TinaFeyge_36 Start: 27799, Stop: 27320, Start Num: 89

Candidate Starts for TinaFeyge_36:

(Start: 89 @27799 has 145 MA's), (165, 27448), (170, 27436), (198, 27376), (204, 27364),

Gene: TinyPebbles_40 Start: 28576, Stop: 28193, Start Num: 84

Candidate Starts for TinyPebbles_40:

(Start: 70 @28603 has 13 MA's), (Start: 84 @28576 has 76 MA's), (Start: 98 @28549 has 1 MA's), (Start: 104 @28531 has 3 MA's), (137, 28360), (139, 28348),

Gene: TiroTheta9_35 Start: 27801, Stop: 27205, Start Num: 89

Candidate Starts for TiroTheta9_35:

(Start: 89 @27801 has 145 MA's), (169, 27441), (170, 27438), (185, 27402), (213, 27336), (214, 27333), (217, 27288), (218, 27276),

Gene: Todacoro_35 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for Todacoro_35:

(Start: 85 @27812 has 10 MA's), (Start: 88 @27809 has 6 MA's), (Start: 104 @27764 has 3 MA's), (131, 27626), (172, 27449),

Gene: Toma_34 Start: 26511, Stop: 26990, Start Num: 84

Candidate Starts for Toma_34:

(Start: 84 @26511 has 76 MA's), (108, 26592), (111, 26607), (146, 26802), (195, 26958), (201, 26973),

Gene: Tomathan_40 Start: 27983, Stop: 27597, Start Num: 82

Candidate Starts for Tomathan_40:

(Start: 82 @27983 has 52 MA's), (139, 27752),

Gene: Tonaltzin_62 Start: 46330, Stop: 46785, Start Num: 63

Candidate Starts for Tonaltzin_62:

(Start: 33 @46267 has 1 MA's), (41, 46300), (Start: 63 @46330 has 31 MA's), (Start: 66 @46339 has 13 MA's), (111, 46471), (127, 46564), (152, 46672), (162, 46723),

Gene: ToneTone_37 Start: 26318, Stop: 25929, Start Num: 86

Candidate Starts for ToneTone_37:

(Start: 86 @26318 has 45 MA's), (121, 26174), (132, 26129), (139, 26087), (143, 26060),

Gene: Toniann_146 Start: 79300, Stop: 79689, Start Num: 91

Candidate Starts for Toniann_146:

(Start: 91 @79300 has 10 MA's), (120, 79438), (170, 79660), (177, 79678),

Gene: ToriToki_54 Start: 29434, Stop: 29018, Start Num: 92

Candidate Starts for ToriToki_54:

(67, 29476), (Start: 92 @29434 has 9 MA's), (111, 29347), (129, 29251), (130, 29248), (132, 29242), (149, 29164),

Gene: Treat_54 Start: 29375, Stop: 28959, Start Num: 92

Candidate Starts for Treat_54:

(67, 29417), (Start: 92 @29375 has 9 MA's), (111, 29288), (118, 29249), (127, 29198), (132, 29183), (134, 29177),

Gene: TripleC_45 Start: 33187, Stop: 32723, Start Num: 80

Candidate Starts for TripleC_45:

(Start: 80 @33187 has 24 MA's), (Start: 91 @33175 has 10 MA's), (Start: 98 @33148 has 1 MA's), (Start: 104 @33130 has 3 MA's), (109, 33091), (159, 32860), (200, 32743),

Gene: Triste_34 Start: 26047, Stop: 26535, Start Num: 71

Candidate Starts for Triste_34:

(18, 25867), (24, 25903), (47, 25999), (Start: 71 @26047 has 36 MA's), (103, 26119), (108, 26155), (109, 26164), (118, 26212), (156, 26377), (157, 26383), (195, 26503), (208, 26530),

Gene: Triumph_36 Start: 26636, Stop: 27115, Start Num: 81

Candidate Starts for Triumph_36:

(Start: 63 @26600 has 31 MA's), (Start: 81 @26636 has 39 MA's), (103, 26687), (108, 26723), (109, 26732), (111, 26738), (113, 26756), (195, 27083), (201, 27098),

Gene: TroyPia_36 Start: 27802, Stop: 27323, Start Num: 89

Candidate Starts for TroyPia_36:

(Start: 89 @27802 has 145 MA's), (165, 27451), (170, 27439), (198, 27379), (204, 27367),

Gene: Trufflozitus_66 Start: 46845, Stop: 47360, Start Num: 55

Candidate Starts for Trufflozitus_66:

(Start: 55 @46845 has 15 MA's), (Start: 98 @46929 has 1 MA's), (Start: 101 @46935 has 3 MA's), (111, 46995), (114, 47016), (122, 47052), (127, 47088), (143, 47172), (170, 47280), (176, 47295), (195, 47328), (196, 47331), (205, 47352),

Gene: TrvxScott_34 Start: 26932, Stop: 27405, Start Num: 87

Candidate Starts for TrvxScott_34:

(Start: 87 @26932 has 39 MA's), (Start: 104 @26977 has 3 MA's), (106, 26986), (108, 27010), (116, 27052), (127, 27121), (195, 27373), (201, 27388),

Gene: TuanPN_33 Start: 25988, Stop: 26476, Start Num: 71

Candidate Starts for TuanPN_33:

(19, 25820), (46, 25937), (Start: 71 @25988 has 36 MA's), (103, 26060), (108, 26096), (109, 26105), (118, 26153), (156, 26318), (157, 26324), (195, 26444), (208, 26471),

Gene: Tucker_40 Start: 26404, Stop: 26015, Start Num: 86

Candidate Starts for Tucker_40:

(Start: 86 @26404 has 45 MA's), (Start: 98 @26377 has 1 MA's), (121, 26260), (132, 26215), (139, 26173), (143, 26146),

Gene: Twigg_32 Start: 26952, Stop: 26443, Start Num: 81

Candidate Starts for Twigg_32:

(Start: 81 @26952 has 39 MA's),

Gene: TygerBlood_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for TygerBlood_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Ulysses_34 Start: 27484, Stop: 27011, Start Num: 89

Candidate Starts for Ulysses_34:

(Start: 89 @27484 has 145 MA's), (165, 27133), (170, 27121), (198, 27061), (204, 27049),

Gene: UnionJack_33 Start: 26328, Stop: 25807, Start Num: 74

Candidate Starts for UnionJack_33:

(54, 26370), (Start: 74 @26328 has 1 MA's), (Start: 81 @26316 has 39 MA's),

Gene: Unstoppable_34 Start: 25679, Stop: 26167, Start Num: 71

Candidate Starts for Unstoppable_34:

(47, 25631), (Start: 71 @25679 has 36 MA's), (103, 25751), (109, 25796), (127, 25898), (157, 26015), (195, 26135), (208, 26162),

Gene: Untouchable_66 Start: 47269, Stop: 47808, Start Num: 66

Candidate Starts for Untouchable_66:

(36, 47203), (Start: 63 @47260 has 31 MA's), (Start: 66 @47269 has 13 MA's), (111, 47401), (127, 47494), (140, 47557), (152, 47602), (162, 47653), (187, 47725),

Gene: VA6_37 Start: 28094, Stop: 27678, Start Num: 82

Candidate Starts for VA6_37:

(8, 28382), (Start: 82 @28094 has 52 MA's), (139, 27863), (169, 27731), (178, 27710), (186, 27692),

Gene: VC3_40 Start: 28082, Stop: 27666, Start Num: 82

Candidate Starts for VC3_40:

(8, 28370), (Start: 82 @28082 has 52 MA's), (139, 27851), (169, 27719), (178, 27698), (186, 27680),

Gene: Vanseggelen_40 Start: 27232, Stop: 27636, Start Num: 87

Candidate Starts for Vanseggelen_40:

(18, 27037), (49, 27172), (Start: 87 @27232 has 39 MA's), (Start: 104 @27277 has 3 MA's), (106, 27286), (108, 27310), (109, 27319), (116, 27352), (169, 27613), (171, 27619),

Gene: Vardy_63 Start: 46057, Stop: 46503, Start Num: 66

Candidate Starts for Vardy_63:

(36, 45991), (45, 46027), (Start: 63 @46048 has 31 MA's), (Start: 66 @46057 has 13 MA's), (111, 46189), (124, 46255), (127, 46282), (132, 46297), (152, 46390), (162, 46441),

Gene: Vash_45 Start: 33403, Stop: 33828, Start Num: 80

Candidate Starts for Vash_45:

(Start: 80 @33403 has 24 MA's), (Start: 91 @33415 has 10 MA's), (108, 33493), (111, 33508), (113, 33526), (156, 33715), (170, 33784), (175, 33796), (181, 33808), (185, 33820),

Gene: Veracruz_34 Start: 27812, Stop: 27381, Start Num: 85

Candidate Starts for Veracruz_34:

(Start: 85 @27812 has 10 MA's), (Start: 88 @27809 has 6 MA's), (Start: 104 @27764 has 3 MA's), (131, 27626), (172, 27449),

Gene: Verse_35 Start: 28380, Stop: 28784, Start Num: 87

Candidate Starts for Verse_35:

(49, 28317), (Start: 87 @28380 has 39 MA's), (Start: 104 @28425 has 3 MA's), (106, 28434), (108, 28458), (119, 28518), (157, 28701), (169, 28761), (171, 28767),

Gene: Virizion_76 Start: 50882, Stop: 50514, Start Num: 100

Candidate Starts for Virizion_76:

(Start: 76 @50930 has 1 MA's), (Start: 97 @50894 has 2 MA's), (100, 50882), (Start: 104 @50870 has 3 MA's), (105, 50864), (107, 50849), (109, 50828), (140, 50672), (144, 50648), (157, 50609), (158, 50606), (174, 50552), (179, 50543),

Gene: Vix_41 Start: 28658, Stop: 28275, Start Num: 84

Candidate Starts for Vix_41:

(Start: 70 @28685 has 13 MA's), (Start: 84 @28658 has 76 MA's), (Start: 104 @28613 has 3 MA's), (137, 28442), (139, 28430),

Gene: VohminGhazi_40 Start: 26617, Stop: 26225, Start Num: 82

Candidate Starts for VohminGhazi_40:

(Start: 82 @26617 has 52 MA's), (121, 26470), (132, 26425), (139, 26383), (143, 26356),

Gene: Vrykolakas_55 Start: 29067, Stop: 28675, Start Num: 101

Candidate Starts for Vrykolakas_55:

(Start: 92 @29094 has 9 MA's), (Start: 101 @29067 has 3 MA's), (108, 29022), (153, 28812),

Gene: WRightOn_58 Start: 29613, Stop: 29197, Start Num: 94

Candidate Starts for WRightOn_58:

(37, 29736), (Start: 83 @29628 has 5 MA's), (Start: 94 @29613 has 3 MA's), (139, 29385),

Gene: Wander_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Wander_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Watson_41 Start: 28595, Stop: 28185, Start Num: 70

Candidate Starts for Watson_41:

(Start: 70 @28595 has 13 MA's), (Start: 84 @28568 has 76 MA's), (Start: 104 @28523 has 3 MA's), (137, 28352), (139, 28340),

Gene: Wentworth_71 Start: 50670, Stop: 50269, Start Num: 97

Candidate Starts for Wentworth_71:

(Start: 76 @50700 has 1 MA's), (Start: 97 @50670 has 2 MA's), (100, 50658), (Start: 104 @50646 has 3 MA's), (109, 50604), (111, 50598), (140, 50448), (143, 50427), (154, 50397), (158, 50376),

Gene: Werner_34 Start: 26057, Stop: 26545, Start Num: 71

Candidate Starts for Werner_34:

(18, 25877), (24, 25913), (47, 26009), (Start: 71 @26057 has 36 MA's), (103, 26129), (108, 26165), (109, 26174), (118, 26222), (127, 26276), (141, 26351), (156, 26387), (157, 26393), (195, 26513), (208, 26540),

Gene: Whatever_34 Start: 26057, Stop: 26545, Start Num: 71

Candidate Starts for Whatever_34:

(18, 25877), (24, 25913), (47, 26009), (Start: 71 @26057 has 36 MA's), (103, 26129), (108, 26165), (118, 26222), (156, 26387), (157, 26393), (195, 26513), (208, 26540),

Gene: Wiks_39 Start: 26386, Stop: 25997, Start Num: 86

Candidate Starts for Wiks_39:

(Start: 86 @26386 has 45 MA's), (121, 26242), (132, 26197), (139, 26155), (143, 26128),

Gene: Wilbur_35 Start: 27804, Stop: 27208, Start Num: 89

Candidate Starts for Wilbur_35:

(Start: 89 @27804 has 145 MA's), (169, 27444), (170, 27441), (185, 27405), (213, 27339), (214, 27336), (217, 27291), (218, 27279),

Gene: Wile_35 Start: 27868, Stop: 27272, Start Num: 89

Candidate Starts for Wile_35:

(58, 27898), (Start: 89 @27868 has 145 MA's), (169, 27508), (170, 27505), (185, 27469), (213, 27403), (214, 27400), (217, 27355), (218, 27343),

Gene: Wizard007_35 Start: 27809, Stop: 27213, Start Num: 89

Candidate Starts for Wizard007_35:

(Start: 89 @27809 has 145 MA's), (169, 27449), (170, 27446), (185, 27410), (213, 27344), (214, 27341), (217, 27296), (218, 27284),

Gene: Wooldri_43 Start: 28514, Stop: 28104, Start Num: 70

Candidate Starts for Wooldri_43:

(Start: 70 @28514 has 13 MA's), (Start: 84 @28487 has 76 MA's), (Start: 104 @28442 has 3 MA's), (137, 28271), (139, 28259),

Gene: WunderPhul_40 Start: 26384, Stop: 25995, Start Num: 86

Candidate Starts for WunderPhul_40:

(Start: 86 @26384 has 45 MA's), (121, 26240), (132, 26195), (139, 26153), (143, 26126),

Gene: Xena_35 Start: 27834, Stop: 27259, Start Num: 89

Candidate Starts for Xena_35:

(58, 27864), (Start: 89 @27834 has 145 MA's), (170, 27471), (185, 27435), (214, 27366), (217, 27321), (218, 27309),

Gene: Yasdnii_34 Start: 26106, Stop: 26594, Start Num: 71

Candidate Starts for Yasdnii_34:

(18, 25926), (47, 26058), (Start: 71 @26106 has 36 MA's), (103, 26178), (108, 26214), (109, 26223), (118, 26271), (156, 26436), (157, 26442), (195, 26562), (208, 26589),

Gene: YoSam321_35 Start: 27801, Stop: 27205, Start Num: 89

Candidate Starts for YoSam321_35:

(Start: 89 @27801 has 145 MA's), (169, 27441), (170, 27438), (185, 27402), (213, 27336), (214, 27333), (217, 27288), (218, 27276),

Gene: Yokurt_40 Start: 26386, Stop: 25997, Start Num: 86

Candidate Starts for Yokurt_40:

(Start: 86 @26386 has 45 MA's), (121, 26242), (132, 26197), (139, 26155), (143, 26128),

Gene: Yosif_37 Start: 28173, Stop: 28583, Start Num: 87

Candidate Starts for Yosif_37:

(Start: 87 @28173 has 39 MA's), (106, 28227), (108, 28251), (157, 28494), (169, 28554), (171, 28560),

Gene: Zainub_37 Start: 27276, Stop: 27749, Start Num: 87

Candidate Starts for Zainub_37:

(Start: 87 @27276 has 39 MA's), (Start: 104 @27321 has 3 MA's), (106, 27330), (108, 27354), (109, 27363), (111, 27369), (127, 27465), (157, 27597), (195, 27717), (201, 27732),

Gene: Zaka_40 Start: 26386, Stop: 25997, Start Num: 86

Candidate Starts for Zaka_40:

(Start: 86 @26386 has 45 MA's), (121, 26242), (132, 26197), (139, 26155), (143, 26128),

Gene: ZamZam_35 Start: 27654, Stop: 28058, Start Num: 87

Candidate Starts for ZamZam_35:

(Start: 87 @27654 has 39 MA's), (Start: 104 @27699 has 3 MA's), (106, 27708), (108, 27732), (109, 27741), (111, 27747), (133, 27861), (169, 28035), (171, 28041),

Gene: Zeigle_54 Start: 29457, Stop: 29041, Start Num: 94

Candidate Starts for Zeigle_54:

(37, 29580), (Start: 83 @29472 has 5 MA's), (Start: 94 @29457 has 3 MA's), (139, 29229),

Gene: Zemlya_36 Start: 26609, Stop: 27091, Start Num: 81

Candidate Starts for Zemlya_36:

(34, 26504), (47, 26549), (Start: 81 @26609 has 39 MA's), (Start: 87 @26615 has 39 MA's), (108, 26693), (111, 26708), (146, 26903), (170, 27002), (195, 27059), (201, 27074), (208, 27086),

Gene: Zeph_66 Start: 47186, Stop: 47647, Start Num: 63

Candidate Starts for Zeph_66:

(36, 47129), (Start: 63 @47186 has 31 MA's), (Start: 66 @47195 has 13 MA's), (111, 47327), (124, 47393), (127, 47420), (140, 47483), (152, 47528),

Gene: Zetzy_40 Start: 28139, Stop: 27756, Start Num: 84

Candidate Starts for Zetzy_40:

(Start: 70 @28166 has 13 MA's), (Start: 84 @28139 has 76 MA's), (Start: 104 @28094 has 3 MA's), (137, 27923), (139, 27911),

Gene: Zolita_31 Start: 27234, Stop: 26728, Start Num: 89

Candidate Starts for Zolita_31:

(Start: 89 @27234 has 145 MA's),

Gene: ZooBear_54 Start: 29438, Stop: 29022, Start Num: 92

Candidate Starts for ZooBear_54:

(67, 29480), (Start: 92 @29438 has 9 MA's), (111, 29351), (129, 29255), (130, 29252), (132, 29246), (149, 29168),

Gene: Zulu_40 Start: 26385, Stop: 25996, Start Num: 86

Candidate Starts for Zulu_40:

(Start: 86 @26385 has 45 MA's), (Start: 98 @26358 has 1 MA's), (121, 26241), (132, 26196), (139, 26154), (143, 26127),

Gene: phiBT1_20 Start: 34511, Stop: 34861, Start Num: 104

Candidate Starts for phiBT1_20:

(Start: 104 @34511 has 3 MA's), (109, 34553), (111, 34559), (113, 34577), (121, 34613), (170, 34835),

Gene: phiHau3_36 Start: 26164, Stop: 26676, Start Num: 63

Candidate Starts for phiHau3_36:

(42, 26128), (Start: 63 @26164 has 31 MA's), (Start: 90 @26200 has 1 MA's), (Start: 104 @26245 has 3 MA's), (108, 26278), (109, 26287), (113, 26311), (195, 26644),