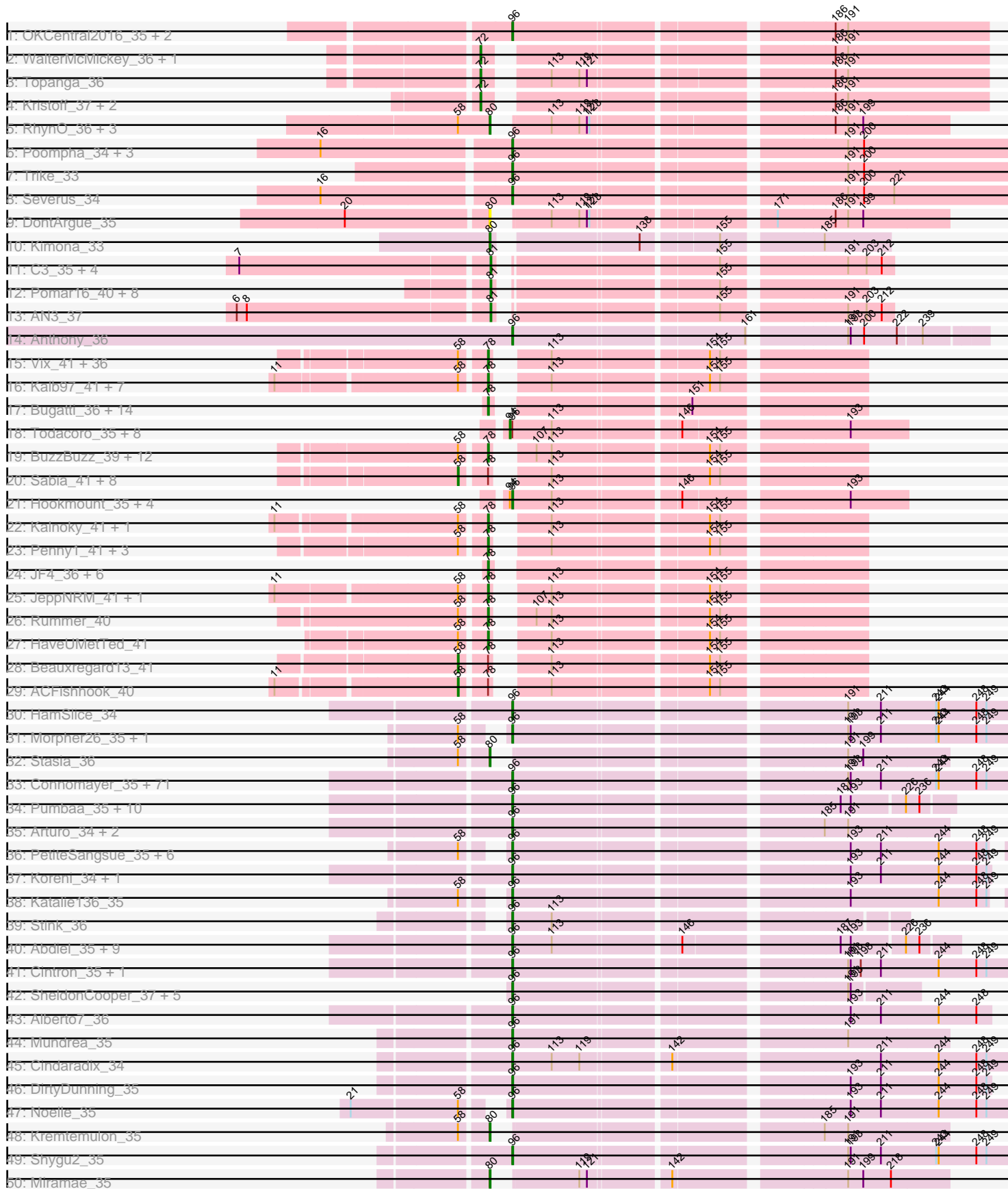
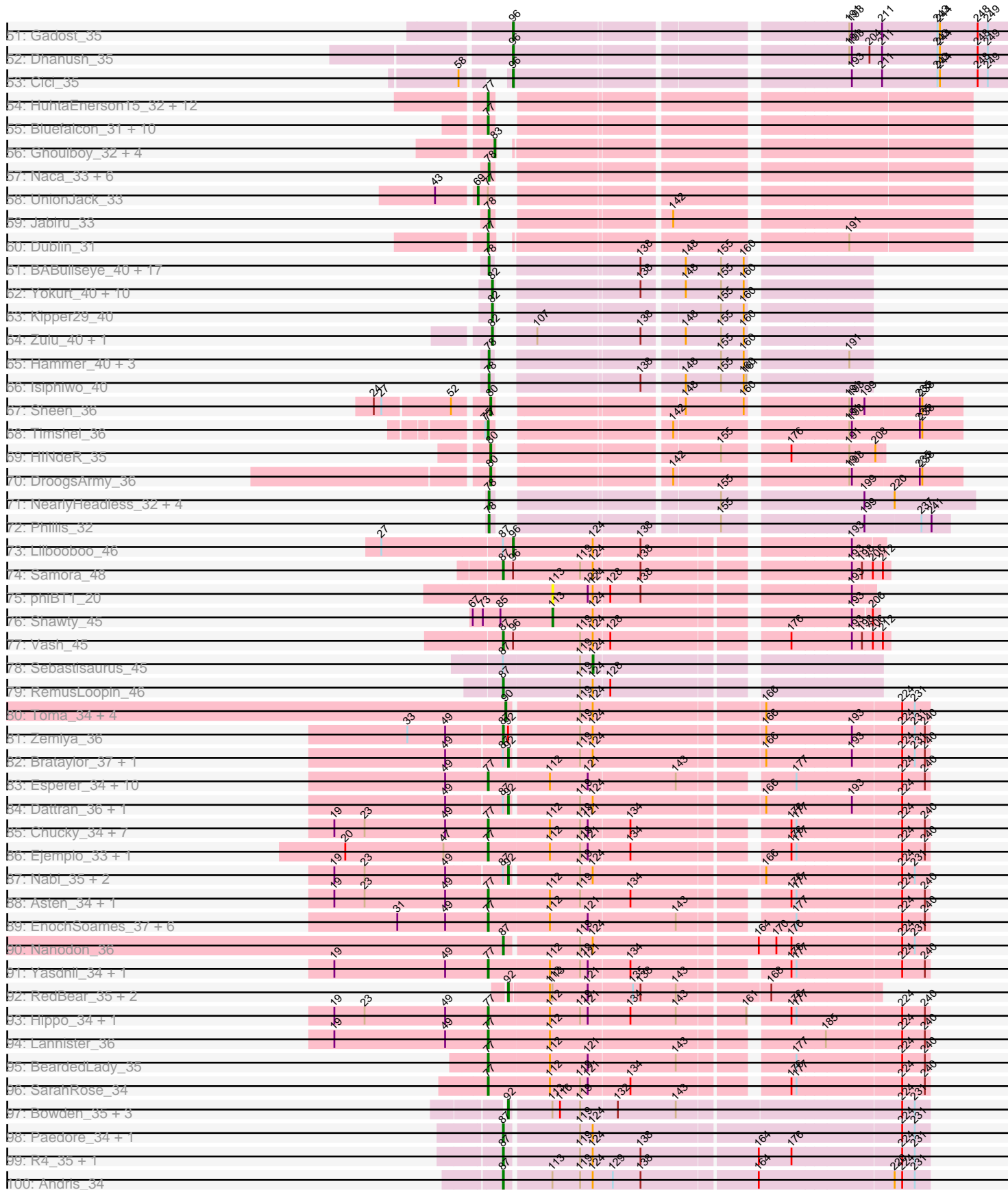


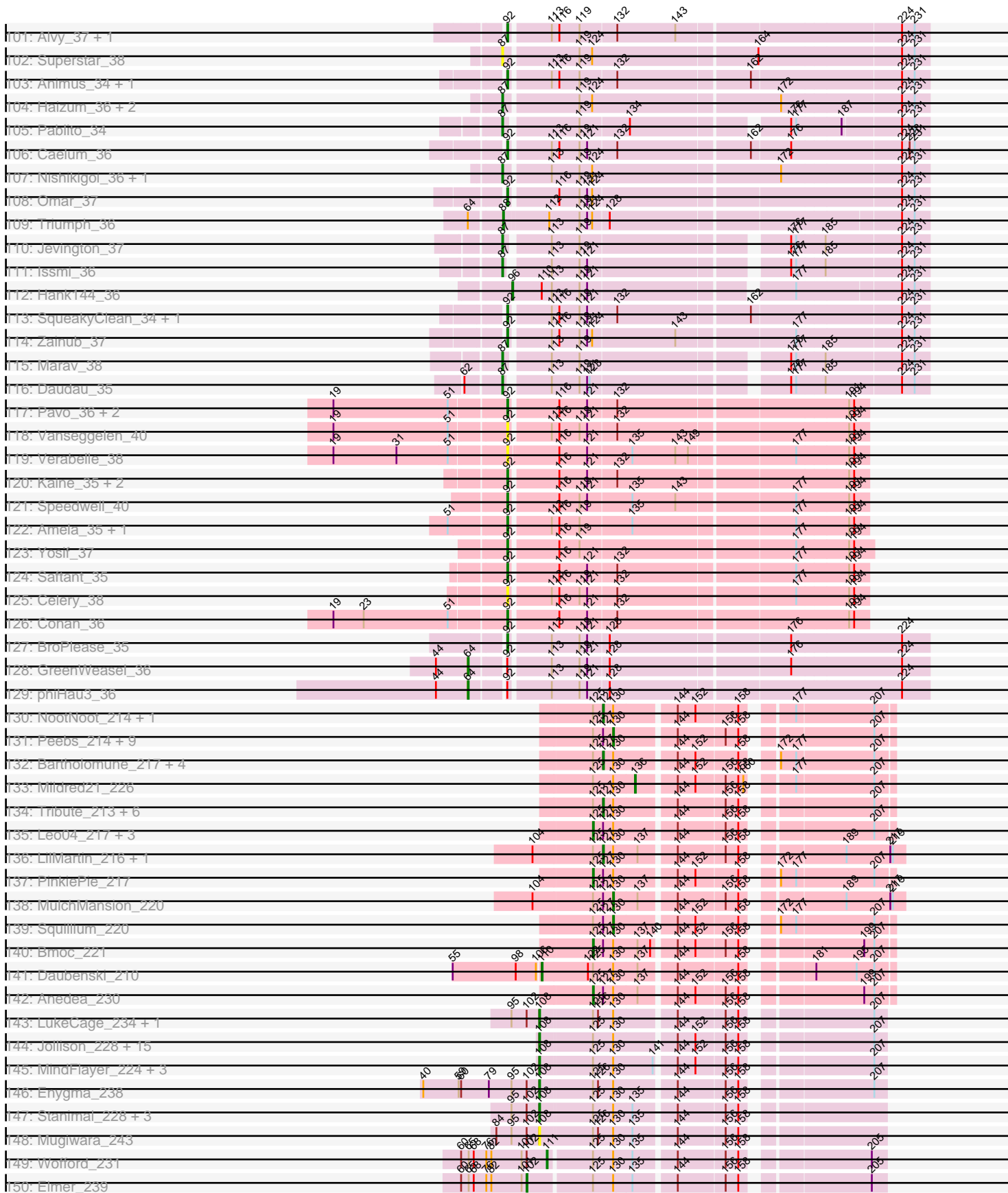
Pham 196167



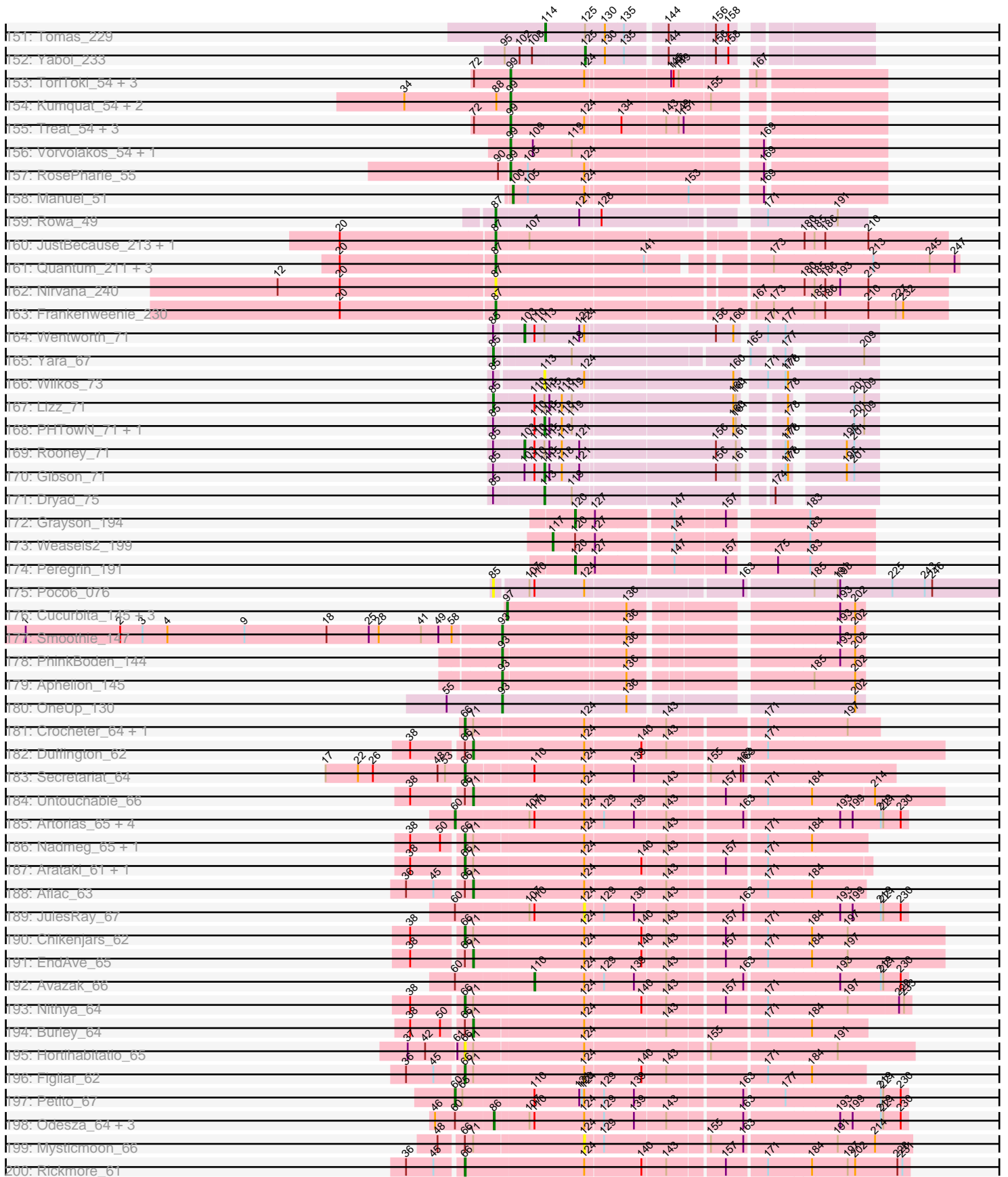
Pham 196167



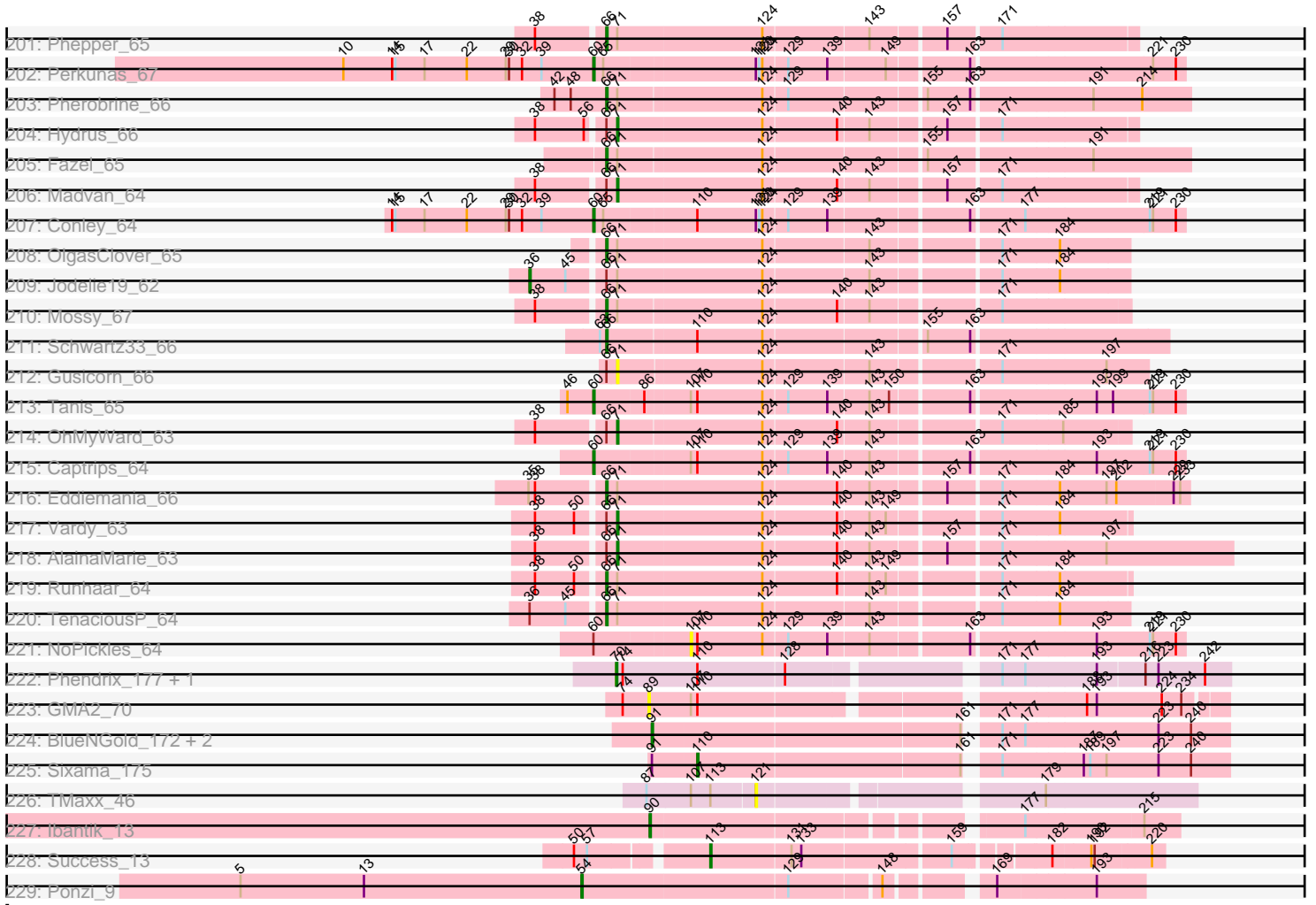
Pham 196167



Pham 196167



Pham 196167



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 196167 Report

This analysis was run 12/09/24 on database version 580.

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 196167 has 654 members, 31 are drafts.

Phages represented in each track:

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

- Track 20 : Sabia_41, Grum1_41, GingkoMaracino_41, Watson_41, SoYo_41, Grub_41, MoneyMay_41, Wooldri_43, Hercules11_41
- Track 21 : Hookmount_35, Lambert1_35, Popcicle_35, Caviar_35, Pocahontas_35
- Track 22 : Kalnoky_41, Marius_41
- Track 23 : Penny1_41, EpicPhail_41, LBerry_41, PotatoSplit_42
- Track 24 : JF4_36, JF2_36, MK4_36, Isca_36, Rockstar_36, Phantastic_36, B1_34
- Track 25 : JeppNRM_41, Heliosoles_40
- Track 26 : Rummer_40
- Track 27 : HaveUMetTed_41
- Track 28 : Beauxregard13_41
- Track 29 : ACFishhook_40
- Track 30 : HamSlice_34
- Track 31 : Morpher26_35, Wile_35
- Track 32 : Stasia_36
- Track 33 : Connomayer_35, Bartimeaus_35, Wilbur_35, Bruiser_34, Caelakin_35, Ruin_35, TygerBlood_35, NotAPhaseMom_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, Deano_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, Romney_35, BubbleTrouble_35, Jaykayelowell_35, Spino_35, Roosevelt_35, Cocoaberry_35, Taquarus_35, Kyee_35, Pipcraft_35, Scamp_35, Baby16_35, Chaph_35, Iceman_36, Maverick_35, NorthStar_35, Phacado_35, Peaches_35, Eapen_35, Shaka_35, JetBlade_35, KFPoly_35, Mazhar510_35, Happiness_35, Florean_35, Funston_35, Citius_35, Wizard007_35, Lunsford_36, MeeZee_35, Blackmoor_35, Houdini22_35, Burger_34, Eros_35, Clarenza_35, Palestino_34, YoSam321_35
- Track 34 : Pumbaa_35, Melvin_37, Phelipe_36, TinaFeyge_36, Nyxis_35, TroyPia_36, Commander_36, Ulysses_34, Phontbonne_35, Medusa_36, LittleGuy_35
- Track 35 : Arturo_34, Kratak_35, Iracema64_36
- Track 36 : PetiteSangsue_35, Perplexer_35, Datway_35, AbbysRanger_35, Backyardigan_35, Badger_35, Xena_35
- Track 37 : Koreni_34, ICleared_35
- Track 38 : Katalie136_35
- Track 39 : Stink_36
- Track 40 : Abdiel_35, Maxo_36, BellusTerra_36, Eurydice_36, Eagle_35, Ohfah_36, Sparxx_36, Nebs_36, Polymorphads_36, Morrow_36
- Track 41 : Cintron_35, Camperdownii_34
- Track 42 : SheldonCooper_37, ChampagnePapi_37, BangNhom_36, Obama12_37, LHTSCC_37, Cerulean_37
- Track 43 : Alberto7_36
- Track 44 : Mundrea_35
- Track 45 : Cindaradix_34
- Track 46 : DirtyDunning_35
- Track 47 : Noelle_35
- Track 48 : Kremtemulon_35
- Track 49 : Shygu2_35
- Track 50 : Miramae_35
- Track 51 : Gadost_35
- Track 52 : Dhanush_35
- Track 53 : Cici_35

- Track 54 : HuhtaEnerson15_32, George_31, LittleCherry_32, Coog_32, Bonamassa_32, Archetta_32, Cuco_32, Milcery_32, Twigg_32, Tarynearal_31, Theia_30, Midas2_32, MarysWell_31
- Track 55 : Bluefalcon_31, Discoknowium_32, Lev2_32, AgentM_32, Aragog_32, Conspiracy_32, Tiger_32, Phlorence_32, ForGetIt_32, Jovo_32, PickleBack_32
- Track 56 : Ghoulyboy_32, Zolita_31, SydNat_32, Micasa_32, Swirley_32
- Track 57 : Naca_33, Airmid_33, ElTiger69_33, Scorpio_34, Benedict_33, PetterN_34, Chadwick_34
- Track 58 : UnionJack_33
- Track 59 : Jabiru_33
- Track 60 : Dublin_31
- Track 61 : BABullseye_40, Gruunaga_40, Dorothea_40, Kazan_41, Blinn1_41, Gladiator_40, SuperAwesome_40, Indra_42, McFly_40, Newrala_40, Hoot_40, Cookiedough_40, Roksolana_41, VohminGhazi_40, JewelBug_41, Neeharika16_40, Jordennis_40, SmellyB_40
- Track 62 : Yokurt_40, Artemis2UCLA_40, WunderPhul_40, Priamo_41, Zaka_40, Hexamo_40, Jeffabunny_40, Lilbunny_39, Wiks_39, ToneTone_37, CloudWang3_40
- Track 63 : Kipper29_40
- Track 64 : Zulu_40, Tucker_40
- Track 65 : Hammer_40, Koko_40, Rifter_40, Blue7_41
- Track 66 : Isiphiwo_40
- Track 67 : Sheen_36
- Track 68 : Timshel_36
- Track 69 : HINdeR_35
- Track 70 : DroogsArmy_36
- Track 71 : NearlyHeadless_32, StepHig9_32, Danforth_31, Roary_32, Expelliarmus_31
- Track 72 : Phillis_32
- Track 73 : Lilbooboo_46
- Track 74 : Samora_48
- Track 75 : phiBT1_20
- Track 76 : Shawty_45
- Track 77 : Vash_45
- Track 78 : Sebastisaurus_45
- Track 79 : RemusLoopin_46
- Track 80 : Toma_34, Lika_34, Goby_34, Sujidade_35, Godpower_35
- Track 81 : Zemlya_36
- Track 82 : Brataylor_37, Danzina_36
- Track 83 : Esperer_34, Hydra_36, Bovely_34, Unstoppable_34, Leviticus_34, Aaronocolus_34, Ozzie_34, SunsetPointe_34, Legacy_34, Indigo_33, Phettuccine_34
- Track 84 : Dattran_36, Celeste_35
- Track 85 : Chucky_34, BarryBee_37, OzzyJ_35, TagePhighter_36, Snorlax_34, Dwayne_34, Triste_34, Emaanora_37
- Track 86 : Ejemplo_33, TuanPN_33
- Track 87 : Nabi_35, Lorelei_35, Rana_35
- Track 88 : Asten_34, Whatever_34
- Track 89 : EnochSoames_37, Izzy_35, Eddasa_35, Oliynyk_35, Rusticus_35, BryanRecycles_35, Jash_35
- Track 90 : Nanodon_36
- Track 91 : Yasdnil_34, Maneekul_34
- Track 92 : RedBear_35, Katalie_34, South40_34
- Track 93 : Hippo_34, Werner_34

- Track 94 : Lannister_36
- Track 95 : BeardedLady_35
- Track 96 : SarahRose_34
- Track 97 : Bowden_35, Thestral_36, TinaBelcher_35, TrvxScott_34
- Track 98 : Paedore_34, Loofah_35
- Track 99 : R4_35, ELB20_33
- Track 100 : Andris_34
- Track 101 : Alvy_37, BartholomewSD_37
- Track 102 : Superstar_38
- Track 103 : Animus_34, GirlDinner_34
- Track 104 : Haizum_36, Diane_34, Amethyst_34
- Track 105 : Pablito_34
- Track 106 : Caelum_36
- Track 107 : Nishikigoi_36, Tefunt_36
- Track 108 : Omar_37
- Track 109 : Triumph_36
- Track 110 : Jevington_37
- Track 111 : Issmi_36
- Track 112 : Hank144_36
- Track 113 : SqueakyClean_34, Janus_35
- Track 114 : Zainub_37
- Track 115 : Marav_38
- Track 116 : Daudau_35
- Track 117 : Pavo_36, ElGato_36, Provolone_36
- Track 118 : Vanseggelen_40
- Track 119 : Verabelle_38
- Track 120 : Kaine_35, Dexers_34, Alsaber_36
- Track 121 : Speedwell_40
- Track 122 : Amela_35, Verse_35
- Track 123 : Yosif_37
- Track 124 : Saftant_35
- Track 125 : Celery_38
- Track 126 : Conan_36
- Track 127 : BroPlease_35
- Track 128 : GreenWeasel_36
- Track 129 : phiHau3_36
- Track 130 : NootNoot_214, Paradiddles_209
- Track 131 : Peebs_214, Teutsch_216, Evy_207, Pepperwood_217, EGole_220, BlueOtter_215, PacManQ_213, Lululemon_213, HangryHippo_215, Cross_216
- Track 132 : Bartholomune_217, Persimmon_220, Navo_211, WhereRU_216, Braelyn_213
- Track 133 : Mildred21_226
- Track 134 : Tribute_213, Sushi23_217, Watermoore_216, Cursive_219, Larnav_216, Samisti12_221, Scheme_220
- Track 135 : Leo04_217, Targaryen_216, Jay2Jay_222, Warpy_220
- Track 136 : LilMartin_216, Angela_219
- Track 137 : PinkiePie_217
- Track 138 : MulchMansion_220
- Track 139 : Squillium_220
- Track 140 : Bmoc_221
- Track 141 : Daubenski_210
- Track 142 : Anedea_230
- Track 143 : LukeCage_234, StarPlatinum_238

- Track 144 : Jollison_228, Wipeout_221, Battuta_229, Quaran19_231, PumpkinSpice_234, Starbow_228, JimJam_238, Spelly_236, Karimac_231, SaltySpittoon_231, Spilled_238, CeilingFan_243, TomSawyer_235, Gibbi_239, Bordeaux_229, KentuckyRacer_237
- Track 145 : MindFlayer_224, Amabiko_235, Birchlyn_230, IchabodCrane_225
- Track 146 : Enygma_238
- Track 147 : Stanimal_228, Genie2_228, Sollertia_229, BoomerJR_228
- Track 148 : Mugiwara_243
- Track 149 : Wofford_231
- Track 150 : Elmer_239
- Track 151 : Tomas_229
- Track 152 : Yaboi_233
- Track 153 : ToriToki_54, HaugeAnator_54, Percastrophe_54, ZooBear_54
- Track 154 : Kumquat_54, Zeigle_54, WRightOn_58
- Track 155 : Treat_54, Olicious_54, Immanuel3_53, Romero_54
- Track 156 : Vorvolakos_54, Fabian_51
- Track 157 : RosePharie_55
- Track 158 : Manuel_51
- Track 159 : Rowa_49
- Track 160 : JustBecause_213, Kela_211
- Track 161 : Quantum_211, EhyElimayoE_215, Kradal_214, Satis_212
- Track 162 : Nirvana_240
- Track 163 : Frankenweenie_230
- Track 164 : Wentworth_71
- Track 165 : Yara_67
- Track 166 : Wilkos_73
- Track 167 : Lizz_71
- Track 168 : PHTowN_71, ShakeNBake_71
- Track 169 : Rooney_71
- Track 170 : Gibson_71
- Track 171 : Dryad_75
- Track 172 : Grayson_194
- Track 173 : Weasels2_199
- Track 174 : Peregrin_191
- Track 175 : Poco6_076
- Track 176 : Cucurbita_145, Culver_146, Toniann_146, Lozinak_146
- Track 177 : Smoothie_147
- Track 178 : PhinkBoden_144
- Track 179 : Aphelion_145
- Track 180 : OneUp_130
- Track 181 : Crocheter_64, ShaggyRogers_67
- Track 182 : Duffington_62
- Track 183 : Secretariat_64
- Track 184 : Untouchable_66
- Track 185 : Artorias_65, FortCran_65, Capybara_65, Kerry_64, Gravy_64
- Track 186 : Nadmeg_65, Kenosha_63
- Track 187 : Arataki_61, Zeph_66
- Track 188 : Aflac_63
- Track 189 : JulesRay_67
- Track 190 : Chickenjars_62
- Track 191 : EndAve_65
- Track 192 : Avazak_66
- Track 193 : Nithya_64

- Track 194 : Burley_64
- Track 195 : Hortihabitatio_65
- Track 196 : Figliar_62
- Track 197 : Petito_67
- Track 198 : Odesza_64, Roney_65, Gill_65, Magel_66
- Track 199 : Mysticmoon_66
- Track 200 : Rickmore_61
- Track 201 : Phepper_65
- Track 202 : Perkunas_67
- Track 203 : Pherobrine_66
- Track 204 : Hydrus_66
- Track 205 : Fazel_65
- Track 206 : Madvan_64
- Track 207 : Conley_64
- Track 208 : OlgasClover_65
- Track 209 : Jodelie19_62
- Track 210 : Mossy_67
- Track 211 : Schwartz33_66
- Track 212 : Gusicorn_66
- Track 213 : Tanis_65
- Track 214 : OhMyWard_63
- Track 215 : Captrips_64
- Track 216 : Eddiemania_66
- Track 217 : Vardy_63
- Track 218 : AlainaMarie_63
- Track 219 : Runhaar_64
- Track 220 : TenaciousP_64
- Track 221 : NoPickles_64
- Track 222 : Phendrix_177, GodonK_189
- Track 223 : GMA2_70
- Track 224 : BlueNGold_172, Mareelih_173, Boopy_175
- Track 225 : Sixama_175
- Track 226 : TMaxx_46
- Track 227 : Ibantik_13
- Track 228 : Success_13
- Track 229 : 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 96, it was called in 144 of the 623 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, Caviar_35, CentreCat_35, Cerulean_37, ChampagnePapi_37, Chaph_35, Chupacabra_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, Drake94_34, Druantia_35, Eagle_35, Eapen_35, Eris_34, Eros_35, Eurydice_36, Florean_35, Flux_35, Funston_35, Gadost_35, Goose_36, HamSlice_34, Hank144_36, Happiness_35, Holli_35, Hookmount_35, Houdini22_35, ICleared_35, Iceman_36, Iracema64_36, Jaykayelowell_35, JetBlade_35, JoongJeon_35, KFPoly_35, Katalie136_35, Kingmustik0402_35, KittenMittens_33, Koreni_34, Kratark_35, Kyee_35, LHTSCC_37, Lambert1_35, LappelDuVide_35, Lemur_35, Lilbooboo_46, LittleB_35, LittleGuy_35, LochMonster_35, Lorenzo_35, Lunsford_36, Maverick_35, Maxo_36, Mazhar510_35, Medusa_36, MeeZee_35, Melvin_37, Millski_34, Morpher26_35, Morrow_36, Mundrea_35, Nebs_36, Nemo27_35, Noelle_35, NorthStar_35, NotAPhaseMom_35, Nyxis_35, OKCentral2016_35, Obama12_37, Ohfah_36, Palestino_34, PeaceMeal1_34, Peaches_35, Perplexer_35, PeterPeter_35, PetiteSangsue_35, Phacado_35, Phelipe_36, Phighter1804_35, Phontbonne_35, Pipcraft_35, Pocahontas_35, Polymorphads_36, Poompha_34, Popcicle_35, Pumbaa_35, Relief_35, Romney_35, Roosevelt_35, Ruin_35, Sabertooth_35, Scamp_35, Severus_34, Shaka_35, SheldonCooper_37, Shygu2_35, Skipitt_35, Sparxx_36, Spino_35, Stink_36, Taquarus_35, Thanksgivukkah_35, TinaFeyge_36, TiroTheta9_35, Trike_33, TroyPia_36, TygerBlood_35, Ulysses_34, Wander_35, Wilbur_35, Wile_35, Wizard007_35, Xena_35, YoSam321_35,

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

- Margo_35, Noella_35, Norbert_34, Panamaxus_34, QuinnKiro_34, ResDef_35, Samora_48, Texage_34, Todacoro_35, Vash_45, Veracruz_34,

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

- ACFishhook_40, AN3_37, AN9_40, ANI8_40, Aaronocolus_34, Aflac_63, AgentM_32, Aglet_41, AgronaGT15_40, Airmid_33, AlainaMarie_63, Alsaber_36, Alvy_37, Amabiko_235, Amela_35, Amethyst_34, Andris_34, Anedeia_230, Angela_219, Animus_34, Anubis_43, Aphelion_145, Aragog_32, Arataki_61, Archetta_32, Artemis2UCLA_40, Artorias_65, Asten_34, AugsMagnumOpus_43, Avazak_66, B1_34, BABullseye_40, BabyRay_36, BarryBee_37, BartholomewSD_37, Bartholomune_217, Battuta_229, BeardedLady_35, Beauxregard13_41, Benedict_33, Birchlyn_230, Blinn1_41, Blue7_41, BlueBird_37, BlueNGold_172, BlueOtter_215, Bluefalcon_31, Bmoc_221, Bonamassa_32, BoomerJR_228, Boopy_175, Bordeaux_229, Bovely_34, Bowden_35, Braelyn_213, Brataylor_37, BreSam8_41, BroPlease_35, BryanRecycles_35, Bugatti_36, Burley_64, BuzzBuzz_39, Bxz2_38, C3_35, Caelum_36, Captrips_64, Copybara_65, CeilingFan_243, Celery_38, Celeste_35, Chadwick_34, Chikenjars_62, Chucky_34, CloudWang3_40, Conan_36, Conley_64, Conspiracy_32, Coog_32, Cookiedough_40, Crocheter_64, Cross_216, Cuco_32, Cucurbita_145, Cullens_41, Culver_146, Cursive_219, D29_36.1, D32_40, DBQu4n_40, DaHudson_41, Daishi_39, Danforth_31, Danzina_36, Dattran_36, Daubenski_210, Daudau_35, Dexers_34, Diane_34, Dieselweasel_41, Discoknowium_32, DontArgue_35, Dorothea_40, DroogsArmy_36, Dryad_75, Dublin_31, Duffington_62, Duplo_40, DustyMartin_39, Dwayne_34, EGole_220, ELB20_33, Eddasa_35, Eddiemania_66, Edison31_36, EhyElimayoE_215, Ejemplo_33, ElGato_36, ElTiger69_33, Elmer_239, Emaanora_37, EndAve_65, EnochSoames_37, Enygma_238, EpicPhail_41, Esperer_34, Evy_207, Expelliarmus_31, Fabian_51, Farber_41, Fazel_65, Fernando_41, Figliar_62, ForGetIt_32, FortCran_65, Frankenweenie_230, Fred313_36, GMA2_70, Gemma_40, Genie2_228, George_31, Ghoulboy_32, Gibbi_239, Gibson_71, Gill_65, GingkoMaracino_41, GirlDinner_34, Gladiator_40, Goby_34, GodonK_189, Godpower_35, Gravy_64, Grayson_194, GreenWeasel_36, Grif_41, Groupthink_41, Grub_41, Grum1_41, Gruunaga_40, GtownJaz_41,

Gusicorn_66, HINdeR_35, Haizum_36, Hammer_40, HangryHippo_215, HashRod_41, HaugeAnator_54, HaveUMetTed_41, Heathen_36, HelDan_36, Heliosoles_40, Hercules11_41, Hexamo_40, Hippo_34, Hoot_40, Hortihabitatio_65, HuhtaEnerson15_32, Hydra_36, Hydrus_66, Ibantik_13, IchabodCrane_225, 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, Jay2Jay_222, Jeffabunny_40, JenCasNa_41, JeppNRM_41, Jevington_37, JewelBug_41, JimJam_238, Jobu08_40, Jodelie19_62, Jollison_228, Jordennis_40, Jovo_32, JulesRay_67, JustBecause_213, KADY_41, Kachowdy_36, Kaine_35, Kalb97_41, Kalnoky_41, Karimac_231, Katalie_34, Kazan_41, Kela_211, Kenosha_63, KentuckyRacer_237, Kerberos_40, Kerry_64, Kimona_33, Kipper29_40, Koko_40, Kradal_214, Kremtemulon_35, Kristoff_37, Kumquat_54, LBerry_41, Lannister_36, Larnav_216, LarryKay_40, Legacy_34, Leo04_217, Lev2_32, Leviticus_34, Lika_34, LilMartin_216, Lilbunny_39, Lilith_41, LittleCherry_32, Lizz_71, Loofah_35, Lorelei_35, Louie6_40, Lozinak_146, LugYA_43, LukeCage_234, Lululemon_213, MA5_36, MK4_36, MadMarie_41, Madvan_64, Magel_66, Mainiac_41, Malinsilva_43, Maneekul_34, Manu_41, Manuel_51, MarQuardt_41, Marav_38, Marchesa_36, Mareelih_173, Marie_41, Marius_41, MarysWell_31, McFly_40, Methuselah_39, Micasa_32, Microwolf_41, Midas2_32, Milcery_32, Mildred21_226, MindFlayer_224, Miramae_35, Misomonster_42, MoneyMay_41, Mossy_67, MuchMore_43, Mugiwara_243, MulchMansion_220, Mysticmoon_66, Nabi_35, Naca_33, Nadmeg_65, Naji_40, Nanodon_36, Navo_211, NearlyHeadless_32, Neeharika16_40, Newrala_40, Nirvana_240, Nishikigoi_36, Nithya_64, NoPickles_64, NootNoot_214, 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, PHTown_71, Pablito_34, PacManQ_213, Paedore_34, Paradiddles_209, Pavo_36, Peebs_214, Pembroke_41, Penny1_41, Pepperwood_217, Percastrophe_54, Peregrin_191, Perkunas_67, Persimmon_220, 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, PinkiePie_217, Pistachio_37, POCO6_076, Pomar16_40, Ponzi_9, PotatoSplit_42, Priamo_41, Provolone_36, PumpkinSpice_234, Puppy_37, PurpleHaze_40, Quantum_211, Quarant19_231, R4_35, Rana_35, Reba_41, Rebeuca_37, RedBear_35, RemusLoopin_46, RhynO_36, Rickmore_61, Rifter_40, Roary_32, Rockstar_36, Roksolana_41, Romero_54, Roney_65, Rooney_71, RosePharie_55, Rowa_49, Rowdy_39, Rummer_40, Runhaar_64, Rusticus_35, Sabia_41, Sabinator_40, Saftant_35, SaltySpittoon_231, Samisti12_221, SarahRose_34, Satis_212, SaturnRing_36, Scheme_220, Schwartz33_66, Scorpia_34, Scout_36, Sebastisaurus_45, Secretariat_64, ShaggyRogers_67, ShakeNBake_71, Shapes_39, Shawty_45, Sheen_36, Sixama_175, SmellyB_40, Smoothie_147, Snorlax_34, SoYo_41, SoilDragon_40, Sollertia_229, Soshari_42, South40_34, Speedwell_40, Spelly_236, Spike509_40, Spilled_238, SqueakyClean_34, Squillium_220, Stagni_41, Stanimal_228, StarPlatinum_238, StarStuff_40, Starbow_228, Stasia_36, StepMih_41, Stephig9_32, Success_13, Sujidade_35, SunsetPointe_34, SuperAwesome_40, Superstar_38, Sushi23_217, Swirley_32, SydNat_32, TMaxx_46, TNguyen7_36, TagePhighter_36, Tanis_65, Targaryen_216, Tarynearal_31, Taurus_41, Tefunt_36, TenaciousP_64, Teutsch_216, Theia_30, Thestral_36, Tiffany_41, Tiger_32, Timshel_36, TinaBelcher_35, TomSawyer_235, Toma_34, Tomas_229, Tomathan_40, ToneTone_37, Toniann_146, Topanga_36, ToriToki_54, Treat_54, Tribute_213, Triste_34, Triumph_36, TrvxScott_34, TuanPN_33, Tucker_40, Twigg_32, Twister_36, UnionJack_33, Unstoppable_34, Untouchable_66, VA6_37, VC3_40,

Vanseggelen_40, Vardy_63, Verabelle_38, Verse_35, Vix_41, VohminGhazi_40, Vorvolakos_54, WRightOn_58, WalterMcMickey_36, Warpy_220, Watermoore_216, Watson_41, Weasels2_199, Wentworth_71, Werner_34, Whatever_34, WhereRU_216, Wiks_39, Wilkos_73, Wipeout_221, Wofford_231, Wooldri_43, WunderPhul_40, Yaboi_233, Yara_67, YasdniI_34, Yokurt_40, Yosif_37, Zainub_37, Zaka_40, Zeigle_54, Zemlya_36, Zeph_66, Zetzy_40, Zolita_31, ZooBear_54, Zulu_40, phiBT1_20, phiHau3_36,

Summary by start number:

Start 36:

- Found in 5 of 654 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Jodelie19_62 (DJ),

Start 54:

- Found in 1 of 654 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ponzi_9 (singleton),

Start 58:

- Found in 98 of 654 (15.0%) of genes in pham
- Manual Annotations of this start: 11 of 623
- Called 11.2% of time when present
- Phage (with cluster) where this start called: ACFishhook_40 (A3), Beauxregard13_41 (A3), GinkgoMaracino_41 (A3), Grub_41 (A3), Grum1_41 (A3), Hercules11_41 (A3), MoneyMay_41 (A3), Sabia_41 (A3), SoYo_41 (A3), Watson_41 (A3), Wooldri_43 (A3),

Start 60:

- Found in 20 of 654 (3.1%) of genes in pham
- Manual Annotations of this start: 10 of 623
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Artorias_65 (DJ), Captrips_64 (DJ), Capybara_65 (DJ), Conley_64 (DJ), FortCran_65 (DJ), Gravy_64 (DJ), Kerry_64 (DJ), Perkunas_67 (DJ), Petito_67 (DJ), Tanis_65 (DJ),

Start 64:

- Found in 3 of 654 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 623
- Called 66.7% of time when present
- Phage (with cluster) where this start called: GreenWeasel_36 (BD4), phiHau3_36 (BD4),

Start 66:

- Found in 34 of 654 (5.2%) of genes in pham
- Manual Annotations of this start: 18 of 623
- Called 61.8% of time when present
- Phage (with cluster) where this start called: Arataki_61 (DJ), Chikenjars_62 (DJ), Crocheter_64 (DJ), Eddiemania_66 (DJ), Fazel_65 (DJ), Figliar_62 (DJ), Hortihabitatio_65 (DJ), Kenosha_63 (DJ), Mossy_67 (DJ), Nadmeg_65 (DJ),

Nithya_64 (DJ), OlgasClover_65 (DJ), Phepper_65 (DJ), Pherobrine_66 (DJ), Rickmore_61 (DJ), Runhaar_64 (DJ), Schwartz33_66 (DJ), Secretariat_64 (DJ), ShaggyRogers_67 (DJ), TenaciousP_64 (DJ), Zeph_66 (DJ),

Start 69:

- Found in 1 of 654 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: UnionJack_33 (A5),

Start 70:

- Found in 2 of 654 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_189 (DK), Phendrix_177 (DK),

Start 71:

- Found in 31 of 654 (4.7%) of genes in pham
- Manual Annotations of this start: 10 of 623
- Called 35.5% of time when present
- Phage (with cluster) where this start called: Aflac_63 (DJ), AlainaMarie_63 (DJ), Burley_64 (DJ), Duffington_62 (DJ), EndAve_65 (DJ), Gusicorn_66 (DJ), Hydrus_66 (DJ), Madvan_64 (DJ), OhMyWard_63 (DJ), Untouchable_66 (DJ), Vardy_63 (DJ),

Start 72:

- Found in 14 of 654 (2.1%) of genes in pham
- Manual Annotations of this start: 6 of 623
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Edison31_36 (A10), Kristoff_37 (A10), Rebeuca_37 (A10), Topanga_36 (A10), Twister_36 (A10), WalterMcMickey_36 (A10),

Start 77:

- Found in 64 of 654 (9.8%) of genes in pham
- Manual Annotations of this start: 61 of 623
- Called 98.4% of time when present
- Phage (with cluster) where this start called: Aaronocolus_34 (BD1), AgentM_32 (A5), Aragog_32 (A5), Archetta_32 (A5), Asten_34 (BD1), BarryBee_37 (BD1), BeardedLady_35 (BD1), Bluefalcon_31 (A5), Bonamassa_32 (A5), Bovely_34 (BD1), BryanRecycles_35 (BD1), Chucky_34 (BD1), Conspiracy_32 (A5), Coog_32 (A5), Cuco_32 (A5), Discoknowium_32 (A5), Dublin_31 (A5), Dwayne_34 (BD1), Eddasa_35 (BD1), Ejemplo_33 (BD1), Emaanora_37 (BD1), EnochSoames_37 (BD1), Esperer_34 (BD1), ForGetIt_32 (A5), George_31 (A5), Hippo_34 (BD1), HuhtaEnerson15_32 (A5), Hydra_36 (BD1), Indigo_33 (BD1), Izzy_35 (BD1), Jash_35 (BD1), Jovo_32 (A5), Lannister_36 (BD1), Legacy_34 (BD1), Lev2_32 (A5), Leviticus_34 (BD1), LittleCherry_32 (A5), Maneekul_34 (BD1), MarysWell_31 (A5), Midas2_32 (A5), Milcery_32 (A5), Oliynyk_35 (BD1), Ozzie_34 (BD1), OzzyJ_35 (BD1), Phettuccine_34 (BD1), Phlorence_32 (A5), PickleBack_32 (A5), Rusticus_35 (BD1), SarahRose_34 (BD1), Snorlax_34 (BD1), SunsetPointe_34 (BD1), TagePighiter_36 (BD1), Tarynearal_31 (A5), Theia_30 (A5), Tiger_32 (A5), Timshel_36 (A7), Triste_34 (BD1), TuanPN_33 (BD1), Twigg_32 (A5), Unstoppable_34 (BD1), Werner_34 (BD1), Whatever_34 (BD1), Yasdnil_34 (BD1),

Start 78:

- Found in 138 of 654 (21.1%) of genes in pham
- Manual Annotations of this start: 123 of 623
- Called 92.0% of time when present
- Phage (with cluster) where this start called: Aglet_41 (A3), AgronaGT15_40 (A3), Airmid_33 (A5), Anubis_43 (A3), AugsMagnumOpus_43 (A3), B1_34 (A3), BABullseye_40 (A6), BabyRay_36 (A3), Benedict_33 (A5), Blinn1_41 (A6), Blue7_41 (A6), BlueBird_37 (A3), BreSam8_41 (A3), Bugatti_36 (A3), BuzzBuzz_39 (A3), Bxz2_38 (A3), Chadwick_34 (A5), Cookiedough_40 (A6), Cullens_41 (A3), DaHudson_41 (A3), Daishi_39 (A3), Danforth_31 (A8), Dieselweasel_41 (A3), Dorothea_40 (A6), EITiger69_33 (A5), EpicPhail_41 (A3), Expelliarmus_31 (A8), Farber_41 (A3), Fernando_41 (A3), Fred313_36 (A3), Gemma_40 (A3), Gladiator_40 (A6), Grif_41 (A3), Groupthink_41 (A3), Gruunaga_40 (A6), GtownJaz_41 (A3), Hammer_40 (A6), HashRod_41 (A3), HaveUMetTed_41 (A3), Heathen_36 (A3), HelDan_36 (A3), Heliosoles_40 (A3), Hoot_40 (A6), Idleandcovert_36 (A3), Indra_42 (A6), Isca_36 (A3), Isiphiwo_40 (A6), JF2_36 (A3), JF4_36 (A3), JHC117_41 (A3), Jabiru_33 (A5), JenCasNa_41 (A3), JeppNRM_41 (A3), JewelBug_41 (A6), Jobu08_40 (A3), Jordennis_40 (A6), KADY_41 (A3), Kachowdy_36 (A3), Kalb97_41 (A3), Kainoky_41 (A3), Kazan_41 (A6), Koko_40 (A6), LBerry_41 (A3), LarryKay_40 (A3), Lilith_41 (A3), Louie6_40 (A3), LugYA_43 (A3), MA5_36 (A3), MK4_36 (A3), MadMarie_41 (A3), Mainiac_41 (A3), Malinsilva_43 (A3), Manu_41 (A3), MarQuardt_41 (A3), Marchesa_36 (A3), Marie_41 (A3), Marius_41 (A3), McFly_40 (A6), Methuselah_39 (A3), Microwolf_41 (A3), Misomonster_42 (A3), MuchMore_43 (A3), Naca_33 (A5), NearlyHeadless_32 (A8), Neeharika16_40 (A6), Newrala_40 (A6), OlanP_40 (A3), Ollie_41 (A3), P28Green_41 (A3), PGHhamlin_43 (A3), Pembroke_41 (A3), Penny1_41 (A3), PetterN_34 (A5), Phantastic_36 (A3), Phillis_32 (A8), PhishRPhriends_39 (A3), Phoebe_41 (A3), Phoxy_40 (A3), Phranny_41 (A3), Pistachio_37 (A3), PotatoSplit_42 (A3), Puppy_37 (A3), PurpleHaze_40 (A3), Reba_41 (A3), Rifter_40 (A6), Roary_32 (A8), Rockstar_36 (A3), Roksolana_41 (A6), Rummer_40 (A3), Sabinator_40 (A3), SaturnRing_36 (A3), Scorpia_34 (A5), Scout_36 (A3), SmellyB_40 (A6), SoilDragon_40 (A3), Soshari_42 (A3), Spike509_40 (A3), Stagni_41 (A3), StepMih_41 (A3), Stephig9_32 (A8), SuperAwesome_40 (A6), TNguyen7_36 (A3), Taurus_41 (A3), Tiffany_41 (A3), Vix_41 (A3), VohminGhazi_40 (A6), Zetzy_40 (A3),

Start 80:

- Found in 12 of 654 (1.8%) of genes in pham
- Manual Annotations of this start: 8 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DontArgue_35 (A10), DroogsArmy_36 (A7), DustyMartin_39 (A10), HINdeR_35 (A7), Kimona_33 (A19), Kremtemulon_35 (A4), Miramae_35 (A4), RhynO_36 (A10), Rowdy_39 (A10), Shapes_39 (A10), Sheen_36 (A7), Stasia_36 (A4),

Start 81:

- Found in 15 of 654 (2.3%) of genes in pham
- Manual Annotations of this start: 15 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AN3_37 (A2), AN9_40 (A2), ANI8_40 (A2), C3_35 (A2), D29_36.1 (A2), D32_40 (A2), DBQu4n_40 (A2), Duplo_40 (A2), Kerberos_40 (A2), Naji_40 (A2), Pomar16_40 (A2), StarStuff_40 (A2), Tomathan_40 (A2), VA6_37 (A2), VC3_40 (A2),

Start 82:

- Found in 16 of 654 (2.4%) of genes in pham
- Manual Annotations of this start: 14 of 623
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_40 (A6), CloudWang3_40 (A6), Hexamo_40 (A6), Jeffabunny_40 (A6), Kipper29_40 (A6), Lilbunny_39 (A6), Priamo_41 (A6), ToneTone_37 (A6), Tucker_40 (A6), Wiks_39 (A6), WunderPhul_40 (A6), Yokurt_40 (A6), Zaka_40 (A6), Zulu_40 (A6),

Start 83:

- Found in 5 of 654 (0.8%) of genes in pham
- Manual Annotations of this start: 5 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ghoulboy_32 (A5), Micasa_32 (A5), Swirley_32 (A5), SydNat_32 (A5), Zolita_31 (A5),

Start 85:

- Found in 11 of 654 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 623
- Called 27.3% of time when present
- Phage (with cluster) where this start called: Lizz_71 (BN), Poco6_076 (CC), Yara_67 (BN),

Start 86:

- Found in 5 of 654 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 623
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Gill_65 (DJ), Magel_66 (DJ), Odesza_64 (DJ), Roney_65 (DJ),

Start 87:

- Found in 40 of 654 (6.1%) of genes in pham
- Manual Annotations of this start: 28 of 623
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Amethyst_34 (BD2), Andris_34 (BD2), Daudau_35 (BD2), Diane_34 (BD2), ELB20_33 (BD2), EhyElimayoE_215 (BM), Frankenweenie_230 (BM), Haizum_36 (BD2), Issmi_36 (BD2), Jevington_37 (BD2), JustBecause_213 (BM), Kela_211 (BM), Kradal_214 (BM), Loofah_35 (BD2), Marav_38 (BD2), Nanodon_36 (BD1), Nirvana_240 (BM), Nishikigoi_36 (BD2), Pablito_34 (BD2), Paedore_34 (BD2), Quantum_211 (BM), R4_35 (BD2), RemusLoopin_46 (BB2), Rowa_49 (BL), Samora_48 (BB1), Satis_212 (BM), Superstar_38 (BD2), Tefunt_36 (BD2), Vash_45 (BB1), Zemlya_36 (BD1),

Start 88:

- Found in 4 of 654 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Triumph_36 (BD2),

Start 89:

- Found in 1 of 654 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present

- Phage (with cluster) where this start called: GMA2_70 (DS),

Start 90:

- Found in 7 of 654 (1.1%) of genes in pham
- Manual Annotations of this start: 6 of 623
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Goby_34 (BD1), Godpower_35 (BD1), Ibantik_13 (singleton), Lika_34 (BD1), Sujidade_35 (BD1), Toma_34 (BD1),

Start 91:

- Found in 4 of 654 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 623
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_172 (DS), Boopy_175 (DS), Mareelih_173 (DS),

Start 92:

- Found in 42 of 654 (6.4%) of genes in pham
- Manual Annotations of this start: 36 of 623
- Called 92.9% 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), BroPlease_35 (BD4), 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), 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), Thestral_36 (BD2), TinaBelcher_35 (BD2), TrvxScott_34 (BD2), Vanseggelen_40 (BD3), Verabelle_38 (BD3), Verse_35 (BD3), Yosif_37 (BD3), Zainub_37 (BD2),

Start 93:

- Found in 4 of 654 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aphelion_145 (CQ1), OneUp_130 (CQ2), PhinkBoden_144 (CQ1), Smoothie_147 (CQ1),

Start 94:

- Found in 14 of 654 (2.1%) of genes in pham
- Manual Annotations of this start: 9 of 623
- Called 64.3% 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), Todacoro_35 (A3), Veracruz_34 (A3),

Start 96:

- Found in 155 of 654 (23.7%) of genes in pham
- Manual Annotations of this start: 144 of 623
- Called 92.9% 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), Caviar_35 (A3), CentreCat_35 (A4), Cerulean_37 (A4), ChampagnePapi_37 (A4), Chaph_35 (A4), Chupacabra_35 (A10), 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), Drake94_34 (A10), Druantia_35 (A4), 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), Goose_36 (A10), HamSlice_34 (A4), Hank144_36 (BD2), Happiness_35 (A4), Holli_35 (A4), Hookmount_35 (A3), Houdini22_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), Kingmustik0402_35 (A4), KittenMittens_33 (A10), Koreni_34 (A4), Kratark_35 (A4), Kyee_35 (A4), LHTSCC_37 (A4), Lambert1_35 (A3), LappelDuVide_35 (A4), Lemur_35 (A4), Lilbooboo_46 (BB1), LittleB_35 (A4), LittleGuy_35 (A4), LochMonster_35 (A4), Lorenzo_35 (A4), Lunsford_36 (A4), Maverick_35 (A4), Maxo_36 (A4), Mazhar510_35 (A4), Medusa_36 (A4), MeeZee_35 (A4), Melvin_37 (A4), Millski_34 (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), OKCentral2016_35 (A10), Obama12_37 (A4), Ohfah_36 (A4), Palestino_34 (A4), PeaceMeal1_34 (A10), 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), Pocahontas_35 (A3), Polymorphads_36 (A4), Poompha_34 (A10), Popcicle_35 (A3), Pumbaa_35 (A4), Relief_35 (A4), Romney_35 (A4), Roosevelt_35 (A4), Ruin_35 (A4), Sabertooth_35 (A4), Scamp_35 (A4), Severus_34 (A10), Shaka_35 (A4), SheldonCooper_37 (A4), Shygu2_35 (A4), Skipitt_35 (A4), Sparxx_36 (A4), Spino_35 (A4), Stink_36 (A4), Taquarus_35 (A4), Thanksgivukkah_35 (A4), TinaFeyge_36 (A4), TiroTheta9_35 (A4), Trike_33 (A10), 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),

Start 97:

- Found in 4 of 654 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cucurbita_145 (CQ1), Culver_146 (CQ1), Lozinak_146 (CQ1), Toniann_146 (CQ1),

Start 99:

- Found in 14 of 654 (2.1%) of genes in pham
- Manual Annotations of this start: 14 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fabian_51 (BF), HaugeAnator_54 (BF), Immanuel3_53 (BF), Kumquat_54 (BF), Olicious_54 (BF), Percastrophe_54 (BF), Romero_54 (BF), RosePharie_55 (BF), ToriToki_54 (BF), Treat_54 (BF), Vorvolakos_54 (BF), WRightOn_58 (BF), Zeigle_54 (BF), ZooBear_54 (BF),

Start 100:

- Found in 1 of 654 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 623

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Manuel_51 (BF),

Start 102:

- Found in 11 of 654 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Elmer_239 (BE2),

Start 103:

- Found in 3 of 654 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 623
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Rooney_71 (BN), Wentworth_71 (BN),

Start 107:

- Found in 34 of 654 (5.2%) of genes in pham
- No Manual Annotations of this start.
- Called 2.9% of time when present
- Phage (with cluster) where this start called: NoPickles_64 (DJ),

Start 108:

- Found in 29 of 654 (4.4%) of genes in pham
- Manual Annotations of this start: 25 of 623
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Amabiko_235 (BE2), Battuta_229 (BE2), Birchlyn_230 (BE2), BoomerJR_228 (BE2), Bordeaux_229 (BE2), CeilingFan_243 (BE2), Enygma_238 (BE2), Genie2_228 (BE2), Gibbi_239 (BE2), IchabodCrane_225 (BE2), JimJam_238 (BE2), Jollison_228 (BE2), Karimac_231 (BE2), KentuckyRacer_237 (BE2), LukeCage_234 (BE2), MindFlayer_224 (BE2), Mugiwara_243 (BE2), PumpkinSpice_234 (BE2), Quaran19_231 (BE2), SaltySpittoon_231 (BE2), Sollertia_229 (BE2), Spelly_236 (BE2), Spilled_238 (BE2), Stanimal_228 (BE2), StarPlatinum_238 (BE2), Starbow_228 (BE2), TomSawyer_235 (BE2), Wipeout_221 (BE2),

Start 110:

- Found in 31 of 654 (4.7%) of genes in pham
- Manual Annotations of this start: 3 of 623
- Called 9.7% of time when present
- Phage (with cluster) where this start called: Avazak_66 (DJ), Daubenski_210 (BE1), Sixama_175 (DS),

Start 111:

- Found in 1 of 654 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wofford_231 (BE2),

Start 113:

- Found in 153 of 654 (23.4%) of genes in pham
- Manual Annotations of this start: 6 of 623
- Called 5.2% of time when present

- Phage (with cluster) where this start called: Dryad_75 (BN), Gibson_71 (BN), PHTown_71 (BN), ShakeNBake_71 (BN), Shawty_45 (BB1), Success_13 (singleton), Wilkos_73 (BN), phiBT1_20 (BB1),

Start 114:

- Found in 1 of 654 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tomas_229 (BE2),

Start 117:

- Found in 1 of 654 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weasels2_199 (CB),

Start 120:

- Found in 3 of 654 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 623
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Grayson_194 (CB), Peregrin_191 (CB),

Start 121:

- Found in 77 of 654 (11.8%) of genes in pham
- No Manual Annotations of this start.
- Called 1.3% of time when present
- Phage (with cluster) where this start called: TMaxx_46 (FR),

Start 124:

- Found in 99 of 654 (15.1%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 3.0% of time when present
- Phage (with cluster) where this start called: JulesRay_67 (DJ), Mysticmoon_66 (DJ), Sebastisaurus_45 (BB2),

Start 125:

- Found in 69 of 654 (10.6%) of genes in pham
- Manual Annotations of this start: 8 of 623
- Called 11.6% of time when present
- Phage (with cluster) where this start called: Anedea_230 (BE1), Bmoc_221 (BE1), Jay2Jay_222 (BE1), Leo04_217 (BE1), PinkiePie_217 (BE1), Targaryen_216 (BE1), Warpy_220 (BE1), Yaboi_233 (BE2),

Start 127:

- Found in 38 of 654 (5.8%) of genes in pham
- Manual Annotations of this start: 15 of 623
- Called 42.1% of time when present
- Phage (with cluster) where this start called: Angela_219 (BE1), Bartholomune_217 (BE1), Braelyn_213 (BE1), Cursive_219 (BE1), Larnav_216 (BE1), LilMartin_216 (BE1), Navo_211 (BE1), NootNoot_214 (BE1), Paradiddles_209 (BE1), Persimmon_220 (BE1), Samisti12_221 (BE1), Scheme_220 (BE1), Sushi23_217 (BE1), Tribute_213 (BE1), Watermoore_216 (BE1), WhereRU_216 (BE1),

Start 130:

- Found in 69 of 654 (10.6%) of genes in pham
- Manual Annotations of this start: 12 of 623
- Called 17.4% of time when present
- Phage (with cluster) where this start called: BlueOtter_215 (BE1), Cross_216 (BE1), EGole_220 (BE1), Evy_207 (BE1), HangryHippo_215 (BE1), Lululemon_213 (BE1), MulchMansion_220 (BE1), PacManQ_213 (BE1), Peebs_214 (BE1), Pepperwood_217 (BE1), Squillum_220 (BE1), Teutsch_216 (BE1),

Start 136:

- Found in 9 of 654 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 623
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Mildred21_226 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster A10:

- Start number 72 was manually annotated 6 times for cluster A10.
- Start number 80 was manually annotated 1 time for cluster A10.
- Start number 96 was manually annotated 9 times for cluster A10.

Info for manual annotations of cluster A19:

- Start number 80 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 81 was manually annotated 15 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 96 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 58 was manually annotated 11 times for cluster A3.
- Start number 78 was manually annotated 86 times for cluster A3.
- Start number 94 was manually annotated 9 times for cluster A3.
- Start number 96 was manually annotated 5 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 80 was manually annotated 3 times for cluster A4.
- Start number 96 was manually annotated 127 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 69 was manually annotated 1 time for cluster A5.
- Start number 77 was manually annotated 24 times for cluster A5.
- Start number 78 was manually annotated 8 times for cluster A5.
- Start number 83 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 78 was manually annotated 23 times for cluster A6.

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

Info for manual annotations of cluster A7:

- Start number 77 was manually annotated 1 time for cluster A7.
- Start number 80 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 78 was manually annotated 6 times for cluster A8.

Info for manual annotations of cluster BB1:

- Start number 87 was manually annotated 2 times for cluster BB1.
- Start number 96 was manually annotated 1 time for cluster BB1.
- Start number 113 was manually annotated 1 time for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 87 was manually annotated 1 time for cluster BB2.
- Start number 124 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BD1:

- Start number 77 was manually annotated 36 times for cluster BD1.
- Start number 87 was manually annotated 2 times for cluster BD1.
- Start number 90 was manually annotated 5 times for cluster BD1.
- Start number 92 was manually annotated 10 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 87 was manually annotated 15 times for cluster BD2.
- Start number 88 was manually annotated 1 time for cluster BD2.
- Start number 92 was manually annotated 13 times for cluster BD2.
- Start number 96 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 92 was manually annotated 12 times for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 64 was manually annotated 2 times for cluster BD4.
- Start number 92 was manually annotated 1 time for cluster BD4.

Info for manual annotations of cluster BE1:

- Start number 110 was manually annotated 1 time for cluster BE1.
- Start number 125 was manually annotated 7 times for cluster BE1.
- Start number 127 was manually annotated 15 times for cluster BE1.
- Start number 130 was manually annotated 12 times for cluster BE1.
- Start number 136 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 102 was manually annotated 1 time for cluster BE2.
- Start number 108 was manually annotated 25 times for cluster BE2.
- Start number 111 was manually annotated 1 time for cluster BE2.
- Start number 114 was manually annotated 1 time for cluster BE2.
- Start number 125 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BF:

- Start number 99 was manually annotated 14 times for cluster BF.

- Start number 100 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster BL:

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

Info for manual annotations of cluster BM:

- Start number 87 was manually annotated 7 times for cluster BM.

Info for manual annotations of cluster BN:

- Start number 85 was manually annotated 2 times for cluster BN.
- Start number 103 was manually annotated 2 times for cluster BN.
- Start number 113 was manually annotated 4 times for cluster BN.

Info for manual annotations of cluster CB:

- Start number 117 was manually annotated 1 time for cluster CB.
- Start number 120 was manually annotated 2 times for cluster CB.

Info for manual annotations of cluster CQ1:

- Start number 93 was manually annotated 3 times for cluster CQ1.
- Start number 97 was manually annotated 4 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 93 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DJ:

- Start number 36 was manually annotated 1 time for cluster DJ.
- Start number 60 was manually annotated 10 times for cluster DJ.
- Start number 66 was manually annotated 18 times for cluster DJ.
- Start number 71 was manually annotated 10 times for cluster DJ.
- Start number 86 was manually annotated 4 times for cluster DJ.
- Start number 110 was manually annotated 1 time for cluster DJ.

Info for manual annotations of cluster DK:

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

Info for manual annotations of cluster DS:

- Start number 91 was manually annotated 3 times for cluster DS.
- Start number 110 was manually annotated 1 time for cluster DS.

Gene Information:

Gene: ACFishhook_40 Start: 28503, Stop: 28093, Start Num: 58

Candidate Starts for ACFishhook_40:

(11, 28701), (Start: 58 @28503 has 11 MA's), (Start: 78 @28476 has 123 MA's), (Start: 113 @28431 has 6 MA's), (154, 28260), (155, 28248),

Gene: AN3_37 Start: 28097, Stop: 27681, Start Num: 81

Candidate Starts for AN3_37:

(6, 28388), (8, 28376), (Start: 81 @28097 has 15 MA's), (155, 27866), (191, 27734), (203, 27713), (212, 27695),

Gene: AN9_40 Start: 28082, Stop: 27666, Start Num: 81

Candidate Starts for AN9_40:

(7, 28370), (Start: 81 @28082 has 15 MA's), (155, 27851), (191, 27719), (203, 27698), (212, 27680),

Gene: ANI8_40 Start: 28082, Stop: 27666, Start Num: 81

Candidate Starts for ANI8_40:

(7, 28370), (Start: 81 @28082 has 15 MA's), (155, 27851), (191, 27719), (203, 27698), (212, 27680),

Gene: Aaronocolus_34 Start: 25685, Stop: 26173, Start Num: 77

Candidate Starts for Aaronocolus_34:

(49, 25637), (Start: 77 @25685 has 61 MA's), (112, 25757), (121, 25802), (143, 25904), (177, 26021), (224, 26141), (240, 26168),

Gene: AbbysRanger_35 Start: 27851, Stop: 27276, Start Num: 96

Candidate Starts for AbbysRanger_35:

(Start: 58 @27881 has 11 MA's), (Start: 96 @27851 has 144 MA's), (193, 27488), (211, 27452), (244, 27383), (248, 27338), (249, 27326),

Gene: Abdiel_35 Start: 27799, Stop: 27323, Start Num: 96

Candidate Starts for Abdiel_35:

(Start: 96 @27799 has 144 MA's), (Start: 113 @27754 has 6 MA's), (146, 27616), (187, 27451), (193, 27439), (226, 27379), (236, 27367),

Gene: Aflac_63 Start: 46335, Stop: 46781, Start Num: 71

Candidate Starts for Aflac_63:

(Start: 36 @46263 has 1 MA's), (45, 46296), (Start: 66 @46326 has 18 MA's), (Start: 71 @46335 has 10 MA's), (Start: 124 @46467 has 1 MA's), (143, 46560), (171, 46668), (184, 46719),

Gene: AgentM_32 Start: 27051, Stop: 26542, Start Num: 77

Candidate Starts for AgentM_32:

(Start: 77 @27051 has 61 MA's),

Gene: Aglet_41 Start: 28577, Stop: 28194, Start Num: 78

Candidate Starts for Aglet_41:

(Start: 58 @28604 has 11 MA's), (Start: 78 @28577 has 123 MA's), (Start: 113 @28532 has 6 MA's), (154, 28361), (155, 28349),

Gene: AgronaGT15_40 Start: 28395, Stop: 28012, Start Num: 78

Candidate Starts for AgronaGT15_40:

(Start: 58 @28422 has 11 MA's), (Start: 78 @28395 has 123 MA's), (107, 28368), (Start: 113 @28350 has 6 MA's), (154, 28179), (155, 28167),

Gene: Airmid_33 Start: 26678, Stop: 26169, Start Num: 78

Candidate Starts for Airmid_33:

(Start: 78 @26678 has 123 MA's),

Gene: AlainaMarie_63 Start: 46290, Stop: 46832, Start Num: 71

Candidate Starts for AlainaMarie_63:

(38, 46224), (Start: 66 @46281 has 18 MA's), (Start: 71 @46290 has 10 MA's), (Start: 124 @46422 has 1 MA's), (140, 46488), (143, 46515), (157, 46578), (171, 46623), (197, 46716),

Gene: Albee_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Albee_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Alberto7_36 Start: 28144, Stop: 27569, Start Num: 96

Candidate Starts for Alberto7_36:

(Start: 96 @28144 has 144 MA's), (193, 27781), (211, 27745), (244, 27676), (248, 27631),

Gene: Alsaber_36 Start: 27554, Stop: 27958, Start Num: 92

Candidate Starts for Alsaber_36:

(Start: 92 @27554 has 36 MA's), (116, 27608), (121, 27641), (132, 27674), (191, 27935), (194, 27941),

Gene: Alvy_37 Start: 27037, Stop: 27510, Start Num: 92

Candidate Starts for Alvy_37:

(Start: 92 @27037 has 36 MA's), (Start: 113 @27082 has 6 MA's), (116, 27091), (119, 27115), (132, 27157), (143, 27226), (224, 27478), (231, 27493),

Gene: Amabiko_235 Start: 109135, Stop: 109503, Start Num: 108

Candidate Starts for Amabiko_235:

(Start: 108 @109135 has 25 MA's), (Start: 125 @109195 has 8 MA's), (Start: 130 @109219 has 12 MA's), (141, 109264), (144, 109285), (152, 109306), (156, 109339), (158, 109354), (207, 109489),

Gene: Amela_35 Start: 28386, Stop: 28790, Start Num: 92

Candidate Starts for Amela_35:

(51, 28323), (Start: 92 @28386 has 36 MA's), (Start: 113 @28431 has 6 MA's), (116, 28440), (119, 28464), (135, 28524), (177, 28707), (191, 28767), (194, 28773),

Gene: Amethyst_34 Start: 26390, Stop: 26875, Start Num: 87

Candidate Starts for Amethyst_34:

(Start: 87 @26390 has 28 MA's), (119, 26474), (Start: 124 @26489 has 1 MA's), (172, 26705), (224, 26843), (231, 26858),

Gene: Andris_34 Start: 26452, Stop: 26937, Start Num: 87

Candidate Starts for Andris_34:

(Start: 87 @26452 has 28 MA's), (Start: 113 @26503 has 6 MA's), (119, 26536), (Start: 124 @26551 has 1 MA's), (129, 26575), (138, 26608), (164, 26740), (220, 26896), (224, 26905), (231, 26920),

Gene: Anedea_230 Start: 109729, Stop: 110043, Start Num: 125

Candidate Starts for Anedea_230:

(Start: 125 @109729 has 8 MA's), (Start: 127 @109741 has 15 MA's), (Start: 130 @109753 has 12 MA's), (137, 109780), (144, 109819), (152, 109840), (156, 109873), (158, 109888), (199, 110011), (207, 110023),

Gene: Angela_219 Start: 107471, Stop: 107788, Start Num: 127

Candidate Starts for Angela_219:

(104, 107390), (Start: 125 @107459 has 8 MA's), (Start: 127 @107471 has 15 MA's), (Start: 130 @107483 has 12 MA's), (137, 107510), (144, 107549), (156, 107603), (158, 107618), (189, 107720), (217, 107771), (219, 107774),

Gene: Animus_34 Start: 26897, Stop: 27370, Start Num: 92

Candidate Starts for Animus_34:

(Start: 92 @26897 has 36 MA's), (Start: 113 @26942 has 6 MA's), (116, 26951), (119, 26975), (132, 27017), (162, 27167), (224, 27338), (231, 27353),

Gene: Annyong_35 Start: 27805, Stop: 27209, Start Num: 96

Candidate Starts for Annyong_35:

(Start: 96 @27805 has 144 MA's), (191, 27445), (193, 27442), (211, 27406), (243, 27340), (244, 27337), (248, 27292), (249, 27280),

Gene: Anthony_36 Start: 26453, Stop: 25938, Start Num: 96

Candidate Starts for Anthony_36:

(Start: 96 @26453 has 144 MA's), (161, 26195), (191, 26093), (193, 26090), (200, 26075), (222, 26036), (239, 26009),

Gene: Anubis_43 Start: 28462, Stop: 28079, Start Num: 78

Candidate Starts for Anubis_43:

(Start: 58 @28489 has 11 MA's), (Start: 78 @28462 has 123 MA's), (Start: 113 @28417 has 6 MA's), (154, 28246), (155, 28234),

Gene: Aphelion_145 Start: 79977, Stop: 80369, Start Num: 93

Candidate Starts for Aphelion_145:

(Start: 93 @79977 has 4 MA's), (Start: 136 @80118 has 1 MA's), (185, 80310), (202, 80358),

Gene: Aragog_32 Start: 27081, Stop: 26572, Start Num: 77

Candidate Starts for Aragog_32:

(Start: 77 @27081 has 61 MA's),

Gene: Arataki_61 Start: 45961, Stop: 46422, Start Num: 66

Candidate Starts for Arataki_61:

(38, 45904), (Start: 66 @45961 has 18 MA's), (Start: 71 @45970 has 10 MA's), (Start: 124 @46102 has 1 MA's), (140, 46168), (143, 46195), (157, 46258), (171, 46303),

Gene: Archetta_32 Start: 27187, Stop: 26678, Start Num: 77

Candidate Starts for Archetta_32:

(Start: 77 @27187 has 61 MA's),

Gene: Artemis2UCLA_40 Start: 26288, Stop: 25899, Start Num: 82

Candidate Starts for Artemis2UCLA_40:

(Start: 82 @26288 has 14 MA's), (138, 26144), (148, 26099), (155, 26057), (160, 26030),

Gene: Artorias_65 Start: 46494, Stop: 47009, Start Num: 60

Candidate Starts for Artorias_65:

(Start: 60 @46494 has 10 MA's), (107, 46578), (Start: 110 @46584 has 3 MA's), (Start: 124 @46644 has 1 MA's), (129, 46665), (139, 46701), (143, 46737), (163, 46821), (193, 46929), (199, 46944), (219, 46977), (221, 46980), (230, 47001),

Gene: Arturo_34 Start: 27863, Stop: 27384, Start Num: 96

Candidate Starts for Arturo_34:

(Start: 96 @27863 has 144 MA's), (185, 27530), (191, 27503),

Gene: Asten_34 Start: 26046, Stop: 26534, Start Num: 77

Candidate Starts for Asten_34:

(19, 25866), (23, 25902), (49, 25998), (Start: 77 @26046 has 61 MA's), (112, 26118), (119, 26154), (134, 26211), (176, 26376), (177, 26382), (224, 26502), (240, 26529),

Gene: AugsMagnumOpus_43 Start: 28568, Stop: 28185, Start Num: 78

Candidate Starts for AugsMagnumOpus_43:

(Start: 58 @28595 has 11 MA's), (Start: 78 @28568 has 123 MA's), (Start: 113 @28523 has 6 MA's), (154, 28352), (155, 28340),

Gene: Avazak_66 Start: 46911, Stop: 47336, Start Num: 110

Candidate Starts for Avazak_66:

(Start: 60 @46821 has 10 MA's), (Start: 110 @46911 has 3 MA's), (Start: 124 @46971 has 1 MA's), (129, 46992), (139, 47028), (143, 47064), (163, 47148), (193, 47256), (219, 47304), (221, 47307), (230, 47328),

Gene: Avle17_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Avle17_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: B1_34 Start: 27319, Stop: 26933, Start Num: 78

Candidate Starts for B1_34:

(Start: 78 @27319 has 123 MA's),

Gene: BABullseye_40 Start: 26694, Stop: 26302, Start Num: 78

Candidate Starts for BABullseye_40:

(Start: 78 @26694 has 123 MA's), (138, 26547), (148, 26502), (155, 26460), (160, 26433),

Gene: Baby16_35 Start: 27815, Stop: 27219, Start Num: 96

Candidate Starts for Baby16_35:

(Start: 96 @27815 has 144 MA's), (191, 27455), (193, 27452), (211, 27416), (243, 27350), (244, 27347), (248, 27302), (249, 27290),

Gene: BabyRay_36 Start: 27870, Stop: 27484, Start Num: 78

Candidate Starts for BabyRay_36:

(Start: 78 @27870 has 123 MA's), (151, 27672),

Gene: Backyardigan_35 Start: 27867, Stop: 27271, Start Num: 96

Candidate Starts for Backyardigan_35:

(Start: 58 @27897 has 11 MA's), (Start: 96 @27867 has 144 MA's), (193, 27504), (211, 27468), (244, 27399), (248, 27354), (249, 27342),

Gene: Badger_35 Start: 27835, Stop: 27260, Start Num: 96

Candidate Starts for Badger_35:

(Start: 58 @27865 has 11 MA's), (Start: 96 @27835 has 144 MA's), (193, 27472), (211, 27436), (244, 27367), (248, 27322), (249, 27310),

Gene: BangNhom_36 Start: 28100, Stop: 27660, Start Num: 96

Candidate Starts for BangNhom_36:

(Start: 96 @28100 has 144 MA's), (191, 27740), (193, 27737),

Gene: BarryBee_37 Start: 26056, Stop: 26544, Start Num: 77

Candidate Starts for BarryBee_37:

(19, 25876), (23, 25912), (49, 26008), (Start: 77 @26056 has 61 MA's), (112, 26128), (119, 26164), (121, 26173), (134, 26221), (176, 26386), (177, 26392), (224, 26512), (240, 26539),

Gene: BartholomewSD_37 Start: 27037, Stop: 27510, Start Num: 92

Candidate Starts for BartholomewSD_37:

(Start: 92 @27037 has 36 MA's), (Start: 113 @27082 has 6 MA's), (116, 27091), (119, 27115), (132, 27157), (143, 27226), (224, 27478), (231, 27493),

Gene: Bartholomune_217 Start: 107720, Stop: 108022, Start Num: 127

Candidate Starts for Bartholomune_217:

(Start: 125 @107708 has 8 MA's), (Start: 127 @107720 has 15 MA's), (Start: 130 @107732 has 12 MA's), (144, 107798), (152, 107819), (158, 107867), (172, 107894), (177, 107912), (207, 108002),

Gene: Bartimeaus_35 Start: 27806, Stop: 27210, Start Num: 96

Candidate Starts for Bartimeaus_35:

(Start: 96 @27806 has 144 MA's), (191, 27446), (193, 27443), (211, 27407), (243, 27341), (244, 27338), (248, 27293), (249, 27281),

Gene: Battuta_229 Start: 108450, Stop: 108818, Start Num: 108

Candidate Starts for Battuta_229:

(Start: 108 @108450 has 25 MA's), (Start: 125 @108510 has 8 MA's), (Start: 130 @108534 has 12 MA's), (144, 108600), (152, 108621), (156, 108654), (158, 108669), (207, 108804),

Gene: BeardedLady_35 Start: 25938, Stop: 26426, Start Num: 77

Candidate Starts for BeardedLady_35:

(Start: 77 @25938 has 61 MA's), (112, 26010), (121, 26055), (143, 26157), (177, 26274), (224, 26394), (240, 26421),

Gene: Beauxregard13_41 Start: 28603, Stop: 28193, Start Num: 58

Candidate Starts for Beauxregard13_41:

(Start: 58 @28603 has 11 MA's), (Start: 78 @28576 has 123 MA's), (Start: 113 @28531 has 6 MA's), (154, 28360), (155, 28348),

Gene: BellusTerra_36 Start: 27799, Stop: 27323, Start Num: 96

Candidate Starts for BellusTerra_36:

(Start: 96 @27799 has 144 MA's), (Start: 113 @27754 has 6 MA's), (146, 27616), (187, 27451), (193, 27439), (226, 27379), (236, 27367),

Gene: Benedict_33 Start: 26684, Stop: 26172, Start Num: 78

Candidate Starts for Benedict_33:

(Start: 78 @26684 has 123 MA's),

Gene: Birchlyn_230 Start: 106383, Stop: 106751, Start Num: 108

Candidate Starts for Birchlyn_230:

(Start: 108 @106383 has 25 MA's), (Start: 125 @106443 has 8 MA's), (Start: 130 @106467 has 12 MA's), (141, 106512), (144, 106533), (152, 106554), (156, 106587), (158, 106602), (207, 106737),

Gene: Blackmoor_35 Start: 27806, Stop: 27210, Start Num: 96

Candidate Starts for Blackmoor_35:

(Start: 96 @27806 has 144 MA's), (191, 27446), (193, 27443), (211, 27407), (243, 27341), (244, 27338), (248, 27293), (249, 27281),

Gene: Blinn1_41 Start: 26683, Stop: 26291, Start Num: 78

Candidate Starts for Blinn1_41:

(Start: 78 @26683 has 123 MA's), (138, 26536), (148, 26491), (155, 26449), (160, 26422),

Gene: Blue7_41 Start: 26619, Stop: 26230, Start Num: 78

Candidate Starts for Blue7_41:

(Start: 78 @26619 has 123 MA's), (155, 26388), (160, 26361), (191, 26256),

Gene: BlueBird_37 Start: 27799, Stop: 27413, Start Num: 78

Candidate Starts for BlueBird_37:

(Start: 78 @27799 has 123 MA's), (151, 27601),

Gene: BlueNGold_172 Start: 101916, Stop: 101413, Start Num: 91

Candidate Starts for BlueNGold_172:

(Start: 91 @101916 has 3 MA's), (161, 101640), (171, 101619), (177, 101598), (223, 101478), (240, 101448),

Gene: BlueOtter_215 Start: 107854, Stop: 108144, Start Num: 130

Candidate Starts for BlueOtter_215:

(Start: 125 @107830 has 8 MA's), (Start: 127 @107842 has 15 MA's), (Start: 130 @107854 has 12 MA's), (144, 107920), (156, 107974), (158, 107989), (207, 108124),

Gene: Bluefalcon_31 Start: 27140, Stop: 26631, Start Num: 77

Candidate Starts for Bluefalcon_31:

(Start: 77 @27140 has 61 MA's),

Gene: Bmoc_221 Start: 107925, Stop: 108239, Start Num: 125

Candidate Starts for Bmoc_221:

(Start: 125 @107925 has 8 MA's), (Start: 127 @107937 has 15 MA's), (Start: 130 @107949 has 12 MA's), (137, 107976), (140, 107991), (144, 108015), (152, 108036), (156, 108069), (158, 108084), (199, 108207), (207, 108219),

Gene: Bombshell_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Bombshell_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Bonamassa_32 Start: 26981, Stop: 26472, Start Num: 77

Candidate Starts for Bonamassa_32:

(Start: 77 @26981 has 61 MA's),

Gene: BoomerJR_228 Start: 109040, Stop: 109408, Start Num: 108

Candidate Starts for BoomerJR_228:

(95, 109007), (Start: 102 @109025 has 1 MA's), (Start: 108 @109040 has 25 MA's), (Start: 125 @109100 has 8 MA's), (Start: 130 @109124 has 12 MA's), (135, 109145), (144, 109190), (156, 109244), (158, 109259),

Gene: Boopy_175 Start: 101927, Stop: 101424, Start Num: 91

Candidate Starts for Boopy_175:

(Start: 91 @101927 has 3 MA's), (161, 101651), (171, 101630), (177, 101609), (223, 101489), (240, 101459),

Gene: Bordeaux_229 Start: 109033, Stop: 109401, Start Num: 108

Candidate Starts for Bordeaux_229:

(Start: 108 @109033 has 25 MA's), (Start: 125 @109093 has 8 MA's), (Start: 130 @109117 has 12 MA's), (144, 109183), (152, 109204), (156, 109237), (158, 109252), (207, 109387),

Gene: Bovely_34 Start: 25691, Stop: 26179, Start Num: 77

Candidate Starts for Bovely_34:

(49, 25643), (Start: 77 @25691 has 61 MA's), (112, 25763), (121, 25808), (143, 25910), (177, 26027), (224, 26147), (240, 26174),

Gene: Bowden_35 Start: 26947, Stop: 27420, Start Num: 92

Candidate Starts for Bowden_35:

(Start: 92 @26947 has 36 MA's), (Start: 113 @26992 has 6 MA's), (116, 27001), (119, 27025), (132, 27067), (143, 27136), (224, 27388), (231, 27403),

Gene: Braelyn_213 Start: 107367, Stop: 107669, Start Num: 127

Candidate Starts for Braelyn_213:

(Start: 125 @107355 has 8 MA's), (Start: 127 @107367 has 15 MA's), (Start: 130 @107379 has 12 MA's), (144, 107445), (152, 107466), (158, 107514), (172, 107541), (177, 107559), (207, 107649),

Gene: Brataylor_37 Start: 27039, Stop: 27515, Start Num: 92

Candidate Starts for Brataylor_37:

(49, 26973), (Start: 87 @27033 has 28 MA's), (Start: 92 @27039 has 36 MA's), (119, 27117), (Start: 124 @27132 has 1 MA's), (166, 27327), (193, 27426), (224, 27483), (231, 27498), (240, 27510),

Gene: BreSam8_41 Start: 28569, Stop: 28186, Start Num: 78

Candidate Starts for BreSam8_41:

(Start: 58 @28596 has 11 MA's), (Start: 78 @28569 has 123 MA's), (Start: 113 @28524 has 6 MA's), (154, 28353), (155, 28341),

Gene: BroPlease_35 Start: 26228, Stop: 26704, Start Num: 92

Candidate Starts for BroPlease_35:

(Start: 92 @26228 has 36 MA's), (Start: 113 @26273 has 6 MA's), (119, 26306), (121, 26315), (128, 26339), (176, 26543), (224, 26672),

Gene: Broseidon_35 Start: 27806, Stop: 27210, Start Num: 96

Candidate Starts for Broseidon_35:

(Start: 96 @27806 has 144 MA's), (191, 27446), (193, 27443), (211, 27407), (243, 27341), (244, 27338), (248, 27293), (249, 27281),

Gene: Bruiser_34 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Bruiser_34:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: BryanRecycles_35 Start: 26042, Stop: 26530, Start Num: 77

Candidate Starts for BryanRecycles_35:

(31, 25937), (49, 25994), (Start: 77 @26042 has 61 MA's), (112, 26114), (121, 26159), (143, 26261), (177, 26378), (224, 26498), (240, 26525),

Gene: BubbleTrouble_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for BubbleTrouble_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Bugatti_36 Start: 27799, Stop: 27413, Start Num: 78

Candidate Starts for Bugatti_36:

(Start: 78 @27799 has 123 MA's), (151, 27601),

Gene: Burger_34 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Burger_34:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Burley_64 Start: 46068, Stop: 46514, Start Num: 71

Candidate Starts for Burley_64:

(38, 46002), (50, 46038), (Start: 66 @46059 has 18 MA's), (Start: 71 @46068 has 10 MA's), (Start: 124 @46197 has 1 MA's), (143, 46290), (171, 46398), (184, 46449),

Gene: BuzzBuzz_39 Start: 28574, Stop: 28191, Start Num: 78

Candidate Starts for BuzzBuzz_39:

(Start: 58 @28601 has 11 MA's), (Start: 78 @28574 has 123 MA's), (107, 28547), (Start: 113 @28529 has 6 MA's), (154, 28358), (155, 28346),

Gene: Bxz2_38 Start: 28581, Stop: 28198, Start Num: 78

Candidate Starts for Bxz2_38:

(Start: 58 @28608 has 11 MA's), (Start: 78 @28581 has 123 MA's), (107, 28554), (Start: 113 @28536 has 6 MA's), (154, 28365), (155, 28353),

Gene: C3_35 Start: 28082, Stop: 27666, Start Num: 81

Candidate Starts for C3_35:

(7, 28370), (Start: 81 @28082 has 15 MA's), (155, 27851), (191, 27719), (203, 27698), (212, 27680),

Gene: Caelakin_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Caelakin_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Caelum_36 Start: 26653, Stop: 27126, Start Num: 92

Candidate Starts for Caelum_36:

(Start: 92 @26653 has 36 MA's), (Start: 113 @26698 has 6 MA's), (116, 26707), (119, 26731), (121, 26740), (132, 26773), (162, 26923), (176, 26968), (224, 27094), (228, 27103), (231, 27109),

Gene: Camperdownii_34 Start: 27498, Stop: 26902, Start Num: 96

Candidate Starts for Camperdownii_34:

(Start: 96 @27498 has 144 MA's), (191, 27138), (193, 27135), (198, 27123), (211, 27099), (244, 27030), (248, 26985), (249, 26973),

Gene: Captrips_64 Start: 45969, Stop: 46484, Start Num: 60

Candidate Starts for Captrips_64:

(Start: 60 @45969 has 10 MA's), (107, 46053), (Start: 110 @46059 has 3 MA's), (Start: 124 @46119 has 1 MA's), (129, 46140), (139, 46176), (143, 46212), (163, 46296), (193, 46404), (219, 46452), (221, 46455), (230, 46476),

Gene: Capybara_65 Start: 46300, Stop: 46815, Start Num: 60

Candidate Starts for Capybara_65:

(Start: 60 @46300 has 10 MA's), (107, 46384), (Start: 110 @46390 has 3 MA's), (Start: 124 @46450 has 1 MA's), (129, 46471), (139, 46507), (143, 46543), (163, 46627), (193, 46735), (199, 46750), (219,

46783), (221, 46786), (230, 46807),

Gene: Caviar_35 Start: 27809, Stop: 27381, Start Num: 96

Candidate Starts for Caviar_35:

(Start: 94 @27812 has 9 MA's), (Start: 96 @27809 has 144 MA's), (Start: 113 @27764 has 6 MA's), (146, 27626), (193, 27449),

Gene: CeilingFan_243 Start: 109828, Stop: 110196, Start Num: 108

Candidate Starts for CeilingFan_243:

(Start: 108 @109828 has 25 MA's), (Start: 125 @109888 has 8 MA's), (Start: 130 @109912 has 12 MA's), (144, 109978), (152, 109999), (156, 110032), (158, 110047), (207, 110182),

Gene: Celery_38 Start: 27479, Stop: 27883, Start Num: 92

Candidate Starts for Celery_38:

(Start: 92 @27479 has 36 MA's), (Start: 113 @27524 has 6 MA's), (116, 27533), (119, 27557), (121, 27566), (132, 27599), (177, 27800), (191, 27860), (194, 27866),

Gene: Celeste_35 Start: 26508, Stop: 26984, Start Num: 92

Candidate Starts for Celeste_35:

(49, 26442), (Start: 87 @26502 has 28 MA's), (Start: 92 @26508 has 36 MA's), (119, 26586), (Start: 124 @26601 has 1 MA's), (166, 26796), (193, 26895), (224, 26952),

Gene: CentreCat_35 Start: 27807, Stop: 27211, Start Num: 96

Candidate Starts for CentreCat_35:

(Start: 96 @27807 has 144 MA's), (191, 27447), (193, 27444), (211, 27408), (243, 27342), (244, 27339), (248, 27294), (249, 27282),

Gene: Cerulean_37 Start: 28101, Stop: 27661, Start Num: 96

Candidate Starts for Cerulean_37:

(Start: 96 @28101 has 144 MA's), (191, 27741), (193, 27738),

Gene: Chadwick_34 Start: 26587, Stop: 26075, Start Num: 78

Candidate Starts for Chadwick_34:

(Start: 78 @26587 has 123 MA's),

Gene: ChampagnePapi_37 Start: 28100, Stop: 27660, Start Num: 96

Candidate Starts for ChampagnePapi_37:

(Start: 96 @28100 has 144 MA's), (191, 27740), (193, 27737),

Gene: Chaph_35 Start: 27815, Stop: 27219, Start Num: 96

Candidate Starts for Chaph_35:

(Start: 96 @27815 has 144 MA's), (191, 27455), (193, 27452), (211, 27416), (243, 27350), (244, 27347), (248, 27302), (249, 27290),

Gene: Chikenjars_62 Start: 46297, Stop: 46848, Start Num: 66

Candidate Starts for Chikenjars_62:

(38, 46240), (Start: 66 @46297 has 18 MA's), (Start: 71 @46306 has 10 MA's), (Start: 124 @46438 has 1 MA's), (140, 46504), (143, 46531), (157, 46594), (171, 46639), (184, 46690), (197, 46732),

Gene: Chucky_34 Start: 26060, Stop: 26548, Start Num: 77

Candidate Starts for Chucky_34:

(19, 25880), (23, 25916), (49, 26012), (Start: 77 @26060 has 61 MA's), (112, 26132), (119, 26168), (121, 26177), (134, 26225), (176, 26390), (177, 26396), (224, 26516), (240, 26543),

Gene: Chupacabra_35 Start: 27785, Stop: 27258, Start Num: 96

Candidate Starts for Chupacabra_35:

(Start: 96 @27785 has 144 MA's), (186, 27440), (191, 27425),

Gene: Cici_35 Start: 27852, Stop: 27256, Start Num: 96

Candidate Starts for Cici_35:

(Start: 58 @27882 has 11 MA's), (Start: 96 @27852 has 144 MA's), (193, 27489), (211, 27453), (243, 27387), (244, 27384), (248, 27339), (249, 27327),

Gene: Cindaradix_34 Start: 27606, Stop: 27010, Start Num: 96

Candidate Starts for Cindaradix_34:

(Start: 96 @27606 has 144 MA's), (Start: 113 @27561 has 6 MA's), (119, 27528), (142, 27432), (211, 27207), (244, 27138), (248, 27093), (249, 27081),

Gene: Cintron_35 Start: 27870, Stop: 27274, Start Num: 96

Candidate Starts for Cintron_35:

(Start: 96 @27870 has 144 MA's), (191, 27510), (193, 27507), (198, 27495), (211, 27471), (244, 27402), (248, 27357), (249, 27345),

Gene: Citius_35 Start: 27819, Stop: 27223, Start Num: 96

Candidate Starts for Citius_35:

(Start: 96 @27819 has 144 MA's), (191, 27459), (193, 27456), (211, 27420), (243, 27354), (244, 27351), (248, 27306), (249, 27294),

Gene: Clarenza_35 Start: 27801, Stop: 27205, Start Num: 96

Candidate Starts for Clarenza_35:

(Start: 96 @27801 has 144 MA's), (191, 27441), (193, 27438), (211, 27402), (243, 27336), (244, 27333), (248, 27288), (249, 27276),

Gene: CloudWang3_40 Start: 26388, Stop: 25999, Start Num: 82

Candidate Starts for CloudWang3_40:

(Start: 82 @26388 has 14 MA's), (138, 26244), (148, 26199), (155, 26157), (160, 26130),

Gene: Cocoaberry_35 Start: 27808, Stop: 27212, Start Num: 96

Candidate Starts for Cocoaberry_35:

(Start: 96 @27808 has 144 MA's), (191, 27448), (193, 27445), (211, 27409), (243, 27343), (244, 27340), (248, 27295), (249, 27283),

Gene: Commander_36 Start: 27803, Stop: 27324, Start Num: 96

Candidate Starts for Commander_36:

(Start: 96 @27803 has 144 MA's), (187, 27452), (193, 27440), (226, 27380), (236, 27368),

Gene: Conan_36 Start: 27448, Stop: 27852, Start Num: 92

Candidate Starts for Conan_36:

(19, 27253), (23, 27289), (51, 27388), (Start: 92 @27448 has 36 MA's), (116, 27502), (121, 27535), (132, 27568), (191, 27829), (194, 27835),

Gene: Conley_64 Start: 47055, Stop: 47570, Start Num: 60

Candidate Starts for Conley_64:

(14, 46869), (15, 46872), (17, 46899), (22, 46938), (29, 46974), (30, 46977), (32, 46989), (39, 47007), (Start: 60 @47055 has 10 MA's), (65, 47064), (Start: 110 @47145 has 3 MA's), (121, 47199), (123, 47202), (Start: 124 @47205 has 1 MA's), (129, 47226), (139, 47262), (163, 47382), (177, 47427),

(219, 47538), (221, 47541), (230, 47562),

Gene: Connomayer_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Connomayer_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Conspiracy_32 Start: 26881, Stop: 26372, Start Num: 77

Candidate Starts for Conspiracy_32:

(Start: 77 @26881 has 61 MA's),

Gene: Coog_32 Start: 27021, Stop: 26512, Start Num: 77

Candidate Starts for Coog_32:

(Start: 77 @27021 has 61 MA's),

Gene: Cookiedough_40 Start: 26610, Stop: 26218, Start Num: 78

Candidate Starts for Cookiedough_40:

(Start: 78 @26610 has 123 MA's), (138, 26463), (148, 26418), (155, 26376), (160, 26349),

Gene: Crocheter_64 Start: 46484, Stop: 46954, Start Num: 66

Candidate Starts for Crocheter_64:

(Start: 66 @46484 has 18 MA's), (Start: 71 @46493 has 10 MA's), (Start: 124 @46622 has 1 MA's), (143, 46715), (171, 46823), (197, 46916),

Gene: Cross_216 Start: 108499, Stop: 108789, Start Num: 130

Candidate Starts for Cross_216:

(Start: 125 @108475 has 8 MA's), (Start: 127 @108487 has 15 MA's), (Start: 130 @108499 has 12 MA's), (144, 108565), (156, 108619), (158, 108634), (207, 108769),

Gene: Cuco_32 Start: 26980, Stop: 26471, Start Num: 77

Candidate Starts for Cuco_32:

(Start: 77 @26980 has 61 MA's),

Gene: Cucurbita_145 Start: 80440, Stop: 80829, Start Num: 97

Candidate Starts for Cucurbita_145:

(Start: 97 @80440 has 4 MA's), (Start: 136 @80578 has 1 MA's), (193, 80800), (202, 80818),

Gene: Cullens_41 Start: 28575, Stop: 28192, Start Num: 78

Candidate Starts for Cullens_41:

(Start: 58 @28602 has 11 MA's), (Start: 78 @28575 has 123 MA's), (Start: 113 @28530 has 6 MA's), (154, 28359), (155, 28347),

Gene: Culver_146 Start: 78704, Stop: 79093, Start Num: 97

Candidate Starts for Culver_146:

(Start: 97 @78704 has 4 MA's), (Start: 136 @78842 has 1 MA's), (193, 79064), (202, 79082),

Gene: Cursive_219 Start: 108171, Stop: 108473, Start Num: 127

Candidate Starts for Cursive_219:

(Start: 125 @108159 has 8 MA's), (Start: 127 @108171 has 15 MA's), (Start: 130 @108183 has 12 MA's), (144, 108249), (156, 108303), (158, 108318), (207, 108453),

Gene: D29_36.1 Start: 27983, Stop: 27597, Start Num: 81

Candidate Starts for D29_36.1:

(Start: 81 @27983 has 15 MA's), (155, 27752),

Gene: D32_40 Start: 27983, Stop: 27597, Start Num: 81

Candidate Starts for D32_40:

(Start: 81 @27983 has 15 MA's), (155, 27752),

Gene: DBQu4n_40 Start: 27983, Stop: 27597, Start Num: 81

Candidate Starts for DBQu4n_40:

(Start: 81 @27983 has 15 MA's), (155, 27752),

Gene: DaHudson_41 Start: 28568, Stop: 28185, Start Num: 78

Candidate Starts for DaHudson_41:

(Start: 58 @28595 has 11 MA's), (Start: 78 @28568 has 123 MA's), (Start: 113 @28523 has 6 MA's), (154, 28352), (155, 28340),

Gene: Daishi_39 Start: 27415, Stop: 27032, Start Num: 78

Candidate Starts for Daishi_39:

(Start: 58 @27442 has 11 MA's), (Start: 78 @27415 has 123 MA's), (107, 27388), (Start: 113 @27370 has 6 MA's), (154, 27199), (155, 27187),

Gene: Danforth_31 Start: 26198, Stop: 25686, Start Num: 78

Candidate Starts for Danforth_31:

(Start: 78 @26198 has 123 MA's), (155, 25967), (199, 25817), (220, 25781),

Gene: Danzina_36 Start: 26809, Stop: 27285, Start Num: 92

Candidate Starts for Danzina_36:

(49, 26743), (Start: 87 @26803 has 28 MA's), (Start: 92 @26809 has 36 MA's), (119, 26887), (Start: 124 @26902 has 1 MA's), (166, 27097), (193, 27196), (224, 27253), (231, 27268), (240, 27280),

Gene: Dattran_36 Start: 26615, Stop: 27091, Start Num: 92

Candidate Starts for Dattran_36:

(49, 26549), (Start: 87 @26609 has 28 MA's), (Start: 92 @26615 has 36 MA's), (119, 26693), (Start: 124 @26708 has 1 MA's), (166, 26903), (193, 27002), (224, 27059),

Gene: Datway_35 Start: 27823, Stop: 27227, Start Num: 96

Candidate Starts for Datway_35:

(Start: 58 @27853 has 11 MA's), (Start: 96 @27823 has 144 MA's), (193, 27460), (211, 27424), (244, 27355), (248, 27310), (249, 27298),

Gene: Daubenski_210 Start: 108498, Stop: 108872, Start Num: 110

Candidate Starts for Daubenski_210:

(55, 108396), (98, 108471), (106, 108495), (Start: 110 @108498 has 3 MA's), (122, 108552), (Start: 125 @108558 has 8 MA's), (Start: 130 @108582 has 12 MA's), (137, 108609), (144, 108648), (158, 108717), (181, 108783), (195, 108831), (207, 108852),

Gene: Daudau_35 Start: 26779, Stop: 27237, Start Num: 87

Candidate Starts for Daudau_35:

(62, 26740), (Start: 87 @26779 has 28 MA's), (Start: 113 @26824 has 6 MA's), (119, 26857), (121, 26866), (123, 26869), (176, 27079), (177, 27085), (185, 27118), (224, 27205), (231, 27220),

Gene: Deano_35 Start: 27812, Stop: 27216, Start Num: 96

Candidate Starts for Deano_35:

(Start: 96 @27812 has 144 MA's), (191, 27452), (193, 27449), (211, 27413), (243, 27347), (244, 27344), (248, 27299), (249, 27287),

Gene: Dexers_34 Start: 27476, Stop: 27880, Start Num: 92

Candidate Starts for Dexers_34:

(Start: 92 @27476 has 36 MA's), (116, 27530), (121, 27563), (132, 27596), (191, 27857), (194, 27863),

Gene: Dhanush_35 Start: 27807, Stop: 27211, Start Num: 96

Candidate Starts for Dhanush_35:

(Start: 96 @27807 has 144 MA's), (191, 27447), (193, 27444), (204, 27423), (211, 27408), (243, 27342), (244, 27339), (248, 27294), (249, 27282),

Gene: Diane_34 Start: 26663, Stop: 27148, Start Num: 87

Candidate Starts for Diane_34:

(Start: 87 @26663 has 28 MA's), (119, 26747), (Start: 124 @26762 has 1 MA's), (172, 26978), (224, 27116), (231, 27131),

Gene: Dieselweasel_41 Start: 28578, Stop: 28195, Start Num: 78

Candidate Starts for Dieselweasel_41:

(Start: 58 @28605 has 11 MA's), (Start: 78 @28578 has 123 MA's), (Start: 113 @28533 has 6 MA's), (154, 28362), (155, 28350),

Gene: DirtyDunning_35 Start: 27843, Stop: 27268, Start Num: 96

Candidate Starts for DirtyDunning_35:

(Start: 96 @27843 has 144 MA's), (193, 27480), (211, 27444), (244, 27375), (248, 27330), (249, 27318),

Gene: Discoknowium_32 Start: 27090, Stop: 26581, Start Num: 77

Candidate Starts for Discoknowium_32:

(Start: 77 @27090 has 61 MA's),

Gene: DontArgue_35 Start: 26801, Stop: 26325, Start Num: 80

Candidate Starts for DontArgue_35:

(20, 26966), (Start: 80 @26801 has 8 MA's), (Start: 113 @26756 has 6 MA's), (119, 26723), (121, 26714), (123, 26711), (171, 26525), (186, 26459), (191, 26444), (199, 26426),

Gene: Dorothea_40 Start: 26617, Stop: 26225, Start Num: 78

Candidate Starts for Dorothea_40:

(Start: 78 @26617 has 123 MA's), (138, 26470), (148, 26425), (155, 26383), (160, 26356),

Gene: Drake94_34 Start: 26656, Stop: 26072, Start Num: 96

Candidate Starts for Drake94_34:

(16, 26851), (Start: 96 @26656 has 144 MA's), (191, 26296), (200, 26278),

Gene: DroogsArmy_36 Start: 29992, Stop: 29501, Start Num: 80

Candidate Starts for DroogsArmy_36:

(Start: 80 @29992 has 8 MA's), (142, 29818), (191, 29632), (193, 29629), (235, 29551), (238, 29548),

Gene: Druantia_35 Start: 27807, Stop: 27211, Start Num: 96

Candidate Starts for Druantia_35:

(Start: 96 @27807 has 144 MA's), (191, 27447), (193, 27444), (211, 27408), (243, 27342), (244, 27339), (248, 27294), (249, 27282),

Gene: Dryad_75 Start: 51427, Stop: 51068, Start Num: 113

Candidate Starts for Dryad_75:

(Start: 85 @51487 has 2 MA's), (Start: 113 @51427 has 6 MA's), (119, 51394), (174, 51175),

Gene: Dublin_31 Start: 26952, Stop: 26440, Start Num: 77

Candidate Starts for Dublin_31:

(Start: 77 @26952 has 61 MA's), (191, 26583),

Gene: Duffington_62 Start: 46002, Stop: 46544, Start Num: 71

Candidate Starts for Duffington_62:

(38, 45936), (Start: 66 @45993 has 18 MA's), (Start: 71 @46002 has 10 MA's), (Start: 124 @46134 has 1 MA's), (140, 46200), (143, 46227), (171, 46335),

Gene: Duplo_40 Start: 28021, Stop: 27635, Start Num: 81

Candidate Starts for Duplo_40:

(Start: 81 @28021 has 15 MA's), (155, 27790),

Gene: DustyMartin_39 Start: 27581, Stop: 27105, Start Num: 80

Candidate Starts for DustyMartin_39:

(Start: 58 @27617 has 11 MA's), (Start: 80 @27581 has 8 MA's), (Start: 113 @27536 has 6 MA's), (119, 27503), (121, 27494), (123, 27491), (186, 27239), (191, 27224), (199, 27206),

Gene: Dwayne_34 Start: 26047, Stop: 26535, Start Num: 77

Candidate Starts for Dwayne_34:

(19, 25867), (23, 25903), (49, 25999), (Start: 77 @26047 has 61 MA's), (112, 26119), (119, 26155), (121, 26164), (134, 26212), (176, 26377), (177, 26383), (224, 26503), (240, 26530),

Gene: EGole_220 Start: 110229, Stop: 110519, Start Num: 130

Candidate Starts for EGole_220:

(Start: 125 @110205 has 8 MA's), (Start: 127 @110217 has 15 MA's), (Start: 130 @110229 has 12 MA's), (144, 110295), (156, 110349), (158, 110364), (207, 110499),

Gene: ELB20_33 Start: 27045, Stop: 27530, Start Num: 87

Candidate Starts for ELB20_33:

(Start: 87 @27045 has 28 MA's), (119, 27129), (Start: 124 @27144 has 1 MA's), (138, 27201), (164, 27333), (176, 27372), (224, 27498), (231, 27513),

Gene: Eagle_35 Start: 27823, Stop: 27347, Start Num: 96

Candidate Starts for Eagle_35:

(Start: 96 @27823 has 144 MA's), (Start: 113 @27778 has 6 MA's), (146, 27640), (187, 27475), (193, 27463), (226, 27403), (236, 27391),

Gene: Eapen_35 Start: 27802, Stop: 27206, Start Num: 96

Candidate Starts for Eapen_35:

(Start: 96 @27802 has 144 MA's), (191, 27442), (193, 27439), (211, 27403), (243, 27337), (244, 27334), (248, 27289), (249, 27277),

Gene: Eddasa_35 Start: 26042, Stop: 26530, Start Num: 77

Candidate Starts for Eddasa_35:

(31, 25937), (49, 25994), (Start: 77 @26042 has 61 MA's), (112, 26114), (121, 26159), (143, 26261), (177, 26378), (224, 26498), (240, 26525),

Gene: Eddiemania_66 Start: 47192, Stop: 47701, Start Num: 66

Candidate Starts for Eddiemania_66:

(35, 47129), (38, 47135), (Start: 66 @47192 has 18 MA's), (Start: 71 @47201 has 10 MA's), (Start: 124 @47333 has 1 MA's), (140, 47399), (143, 47426), (157, 47489), (171, 47534), (184, 47585), (197, 47627), (202, 47636), (229, 47687), (233, 47693),

Gene: Edison31_36 Start: 28017, Stop: 27478, Start Num: 72

Candidate Starts for Edison31_36:

(Start: 72 @28017 has 6 MA's), (186, 27660), (191, 27645),

Gene: EhyElimayoE_215 Start: 129333, Stop: 129842, Start Num: 87

Candidate Starts for EhyElimayoE_215:

(20, 129150), (Start: 87 @129333 has 28 MA's), (141, 129507), (173, 129624), (213, 129741), (245, 129807), (247, 129837),

Gene: Ejemplo_33 Start: 25988, Stop: 26476, Start Num: 77

Candidate Starts for Ejemplo_33:

(20, 25820), (47, 25937), (Start: 77 @25988 has 61 MA's), (112, 26060), (119, 26096), (121, 26105), (134, 26153), (176, 26318), (177, 26324), (224, 26444), (240, 26471),

Gene: ElGato_36 Start: 27112, Stop: 27516, Start Num: 92

Candidate Starts for ElGato_36:

(19, 26917), (51, 27052), (Start: 92 @27112 has 36 MA's), (116, 27166), (121, 27199), (132, 27232), (191, 27493), (194, 27499),

Gene: ElTiger69_33 Start: 26682, Stop: 26170, Start Num: 78

Candidate Starts for ElTiger69_33:

(Start: 78 @26682 has 123 MA's),

Gene: Elmer_239 Start: 112604, Stop: 112984, Start Num: 102

Candidate Starts for Elmer_239:

(Start: 60 @112526 has 10 MA's), (65, 112535), (68, 112541), (76, 112556), (Start: 82 @112562 has 14 MA's), (101, 112598), (Start: 102 @112604 has 1 MA's), (Start: 125 @112676 has 8 MA's), (Start: 130 @112700 has 12 MA's), (135, 112721), (144, 112766), (156, 112820), (158, 112835), (205, 112967),

Gene: Emaanora_37 Start: 26005, Stop: 26493, Start Num: 77

Candidate Starts for Emaanora_37:

(19, 25825), (23, 25861), (49, 25957), (Start: 77 @26005 has 61 MA's), (112, 26077), (119, 26113), (121, 26122), (134, 26170), (176, 26335), (177, 26341), (224, 26461), (240, 26488),

Gene: EndAve_65 Start: 46474, Stop: 47016, Start Num: 71

Candidate Starts for EndAve_65:

(38, 46408), (Start: 66 @46465 has 18 MA's), (Start: 71 @46474 has 10 MA's), (Start: 124 @46606 has 1 MA's), (140, 46672), (143, 46699), (157, 46762), (171, 46807), (184, 46858), (197, 46900),

Gene: EnochSoames_37 Start: 26037, Stop: 26525, Start Num: 77

Candidate Starts for EnochSoames_37:

(31, 25932), (49, 25989), (Start: 77 @26037 has 61 MA's), (112, 26109), (121, 26154), (143, 26256), (177, 26373), (224, 26493), (240, 26520),

Gene: Enygma_238 Start: 111845, Stop: 112213, Start Num: 108

Candidate Starts for Enygma_238:

(40, 111707), (59, 111749), (Start: 60 @111752 has 10 MA's), (79, 111785), (95, 111812), (Start: 102 @111830 has 1 MA's), (Start: 108 @111845 has 25 MA's), (Start: 125 @111905 has 8 MA's), (126, 111911), (Start: 130 @111929 has 12 MA's), (144, 111995), (156, 112049), (158, 112064), (207, 112199),

Gene: EpicPhail_41 Start: 28576, Stop: 28193, Start Num: 78

Candidate Starts for EpicPhail_41:

(Start: 58 @28603 has 11 MA's), (Start: 78 @28576 has 123 MA's), (Start: 113 @28531 has 6 MA's), (154, 28360), (155, 28348),

Gene: Eris_34 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Eris_34:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Eros_35 Start: 27806, Stop: 27210, Start Num: 96

Candidate Starts for Eros_35:

(Start: 96 @27806 has 144 MA's), (191, 27446), (193, 27443), (211, 27407), (243, 27341), (244, 27338), (248, 27293), (249, 27281),

Gene: Esperer_34 Start: 25504, Stop: 25992, Start Num: 77

Candidate Starts for Esperer_34:

(49, 25456), (Start: 77 @25504 has 61 MA's), (112, 25576), (121, 25621), (143, 25723), (177, 25840), (224, 25960), (240, 25987),

Gene: Eurydice_36 Start: 27798, Stop: 27322, Start Num: 96

Candidate Starts for Eurydice_36:

(Start: 96 @27798 has 144 MA's), (Start: 113 @27753 has 6 MA's), (146, 27615), (187, 27450), (193, 27438), (226, 27378), (236, 27366),

Gene: Evy_207 Start: 108670, Stop: 108960, Start Num: 130

Candidate Starts for Evy_207:

(Start: 125 @108646 has 8 MA's), (Start: 127 @108658 has 15 MA's), (Start: 130 @108670 has 12 MA's), (144, 108736), (156, 108790), (158, 108805), (207, 108940),

Gene: Expelliarmus_31 Start: 26184, Stop: 25672, Start Num: 78

Candidate Starts for Expelliarmus_31:

(Start: 78 @26184 has 123 MA's), (155, 25953), (199, 25803), (220, 25767),

Gene: Fabian_51 Start: 29095, Stop: 28676, Start Num: 99

Candidate Starts for Fabian_51:

(Start: 99 @29095 has 14 MA's), (109, 29068), (119, 29023), (169, 28813),

Gene: Farber_41 Start: 28569, Stop: 28186, Start Num: 78

Candidate Starts for Farber_41:

(Start: 58 @28596 has 11 MA's), (Start: 78 @28569 has 123 MA's), (Start: 113 @28524 has 6 MA's), (154, 28353), (155, 28341),

Gene: Fazel_65 Start: 46305, Stop: 46814, Start Num: 66

Candidate Starts for Fazel_65:

(Start: 66 @46305 has 18 MA's), (Start: 71 @46314 has 10 MA's), (Start: 124 @46443 has 1 MA's), (155, 46581), (191, 46725),

Gene: Fernando_41 Start: 28575, Stop: 28192, Start Num: 78

Candidate Starts for Fernando_41:

(Start: 58 @28602 has 11 MA's), (Start: 78 @28575 has 123 MA's), (Start: 113 @28530 has 6 MA's), (154, 28359), (155, 28347),

Gene: Figliar_62 Start: 46394, Stop: 46849, Start Num: 66

Candidate Starts for Figliar_62:

(Start: 36 @46331 has 1 MA's), (45, 46364), (Start: 66 @46394 has 18 MA's), (Start: 71 @46403 has 10 MA's), (Start: 124 @46535 has 1 MA's), (140, 46601), (143, 46628), (171, 46736), (184, 46787),

Gene: Florean_35 Start: 27803, Stop: 27207, Start Num: 96

Candidate Starts for Florean_35:

(Start: 96 @27803 has 144 MA's), (191, 27443), (193, 27440), (211, 27404), (243, 27338), (244, 27335), (248, 27290), (249, 27278),

Gene: Flux_35 Start: 27806, Stop: 27210, Start Num: 96

Candidate Starts for Flux_35:

(Start: 96 @27806 has 144 MA's), (191, 27446), (193, 27443), (211, 27407), (243, 27341), (244, 27338), (248, 27293), (249, 27281),

Gene: ForGetIt_32 Start: 26906, Stop: 26397, Start Num: 77

Candidate Starts for ForGetIt_32:

(Start: 77 @26906 has 61 MA's),

Gene: FortCran_65 Start: 46494, Stop: 47009, Start Num: 60

Candidate Starts for FortCran_65:

(Start: 60 @46494 has 10 MA's), (107, 46578), (Start: 110 @46584 has 3 MA's), (Start: 124 @46644 has 1 MA's), (129, 46665), (139, 46701), (143, 46737), (163, 46821), (193, 46929), (199, 46944), (219, 46977), (221, 46980), (230, 47001),

Gene: Frankenweenie_230 Start: 138966, Stop: 139478, Start Num: 87

Candidate Starts for Frankenweenie_230:

(20, 138783), (Start: 87 @138966 has 28 MA's), (167, 139251), (173, 139272), (185, 139320), (186, 139332), (210, 139383), (227, 139416), (232, 139425),

Gene: Fred313_36 Start: 27551, Stop: 27165, Start Num: 78

Candidate Starts for Fred313_36:

(Start: 78 @27551 has 123 MA's), (151, 27353),

Gene: Funston_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Funston_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: GMA2_70 Start: 73346, Stop: 72861, Start Num: 89

Candidate Starts for GMA2_70:

(74, 73370), (89, 73346), (107, 73307), (Start: 110 @73301 has 3 MA's), (188, 72983), (193, 72974), (224, 72914), (234, 72896),

Gene: Gadost_35 Start: 27808, Stop: 27212, Start Num: 96

Candidate Starts for Gadost_35:

(Start: 96 @27808 has 144 MA's), (191, 27448), (193, 27445), (211, 27409), (243, 27343), (244, 27340), (248, 27295), (249, 27283),

Gene: Gemma_40 Start: 28397, Stop: 28014, Start Num: 78

Candidate Starts for Gemma_40:

(11, 28625), (Start: 58 @28424 has 11 MA's), (Start: 78 @28397 has 123 MA's), (Start: 113 @28352 has 6 MA's), (154, 28181), (155, 28169),

Gene: Genie2_228 Start: 109165, Stop: 109533, Start Num: 108

Candidate Starts for Genie2_228:

(95, 109132), (Start: 102 @109150 has 1 MA's), (Start: 108 @109165 has 25 MA's), (Start: 125 @109225 has 8 MA's), (Start: 130 @109249 has 12 MA's), (135, 109270), (144, 109315), (156, 109369), (158, 109384),

Gene: George_31 Start: 26981, Stop: 26472, Start Num: 77

Candidate Starts for George_31:

(Start: 77 @26981 has 61 MA's),

Gene: Ghouboy_32 Start: 27221, Stop: 26715, Start Num: 83

Candidate Starts for Ghouboy_32:

(Start: 83 @27221 has 5 MA's),

Gene: Gibbi_239 Start: 109321, Stop: 109689, Start Num: 108

Candidate Starts for Gibbi_239:

(Start: 108 @109321 has 25 MA's), (Start: 125 @109381 has 8 MA's), (Start: 130 @109405 has 12 MA's), (144, 109471), (152, 109492), (156, 109525), (158, 109540), (207, 109675),

Gene: Gibson_71 Start: 50674, Stop: 50318, Start Num: 113

Candidate Starts for Gibson_71:

(Start: 85 @50734 has 2 MA's), (Start: 103 @50698 has 2 MA's), (Start: 110 @50686 has 3 MA's), (Start: 113 @50674 has 6 MA's), (115, 50668), (118, 50653), (121, 50632), (156, 50476), (161, 50452), (177, 50413), (178, 50410), (196, 50356), (201, 50347),

Gene: Gill_65 Start: 46357, Stop: 46827, Start Num: 86

Candidate Starts for Gill_65:

(46, 46288), (Start: 60 @46312 has 10 MA's), (Start: 86 @46357 has 4 MA's), (107, 46396), (Start: 110 @46402 has 3 MA's), (Start: 124 @46462 has 1 MA's), (129, 46483), (139, 46519), (143, 46555), (163, 46639), (193, 46747), (199, 46762), (219, 46795), (221, 46798), (230, 46819),

Gene: GingkoMaracino_41 Start: 28489, Stop: 28079, Start Num: 58

Candidate Starts for GingkoMaracino_41:

(Start: 58 @28489 has 11 MA's), (Start: 78 @28462 has 123 MA's), (Start: 113 @28417 has 6 MA's), (154, 28246), (155, 28234),

Gene: GirlDinner_34 Start: 26398, Stop: 26871, Start Num: 92

Candidate Starts for GirlDinner_34:

(Start: 92 @26398 has 36 MA's), (Start: 113 @26443 has 6 MA's), (116, 26452), (119, 26476), (132, 26518), (162, 26668), (224, 26839), (231, 26854),

Gene: Gladiator_40 Start: 26599, Stop: 26207, Start Num: 78

Candidate Starts for Gladiator_40:

(Start: 78 @26599 has 123 MA's), (138, 26452), (148, 26407), (155, 26365), (160, 26338),

Gene: Goby_34 Start: 26511, Stop: 26990, Start Num: 90

Candidate Starts for Goby_34:

(Start: 90 @26511 has 6 MA's), (119, 26592), (Start: 124 @26607 has 1 MA's), (166, 26802), (224, 26958), (231, 26973),

Gene: GodonK_189 Start: 98192, Stop: 97662, Start Num: 70

Candidate Starts for GodonK_189:

(Start: 70 @98192 has 2 MA's), (74, 98186), (Start: 110 @98117 has 3 MA's), (128, 98039), (171, 97868), (177, 97847), (193, 97784), (216, 97742), (223, 97730), (242, 97688),

Gene: Godpower_35 Start: 26506, Stop: 26985, Start Num: 90

Candidate Starts for Godpower_35:

(Start: 90 @26506 has 6 MA's), (119, 26587), (Start: 124 @26602 has 1 MA's), (166, 26797), (224, 26953), (231, 26968),

Gene: Goose_36 Start: 27589, Stop: 27062, Start Num: 96

Candidate Starts for Goose_36:

(Start: 96 @27589 has 144 MA's), (186, 27244), (191, 27229),

Gene: Gravy_64 Start: 45990, Stop: 46505, Start Num: 60

Candidate Starts for Gravy_64:

(Start: 60 @45990 has 10 MA's), (107, 46074), (Start: 110 @46080 has 3 MA's), (Start: 124 @46140 has 1 MA's), (129, 46161), (139, 46197), (143, 46233), (163, 46317), (193, 46425), (199, 46440), (219, 46473), (221, 46476), (230, 46497),

Gene: Grayson_194 Start: 100750, Stop: 101079, Start Num: 120

Candidate Starts for Grayson_194:

(Start: 120 @100750 has 2 MA's), (Start: 127 @100774 has 15 MA's), (147, 100861), (157, 100918), (183, 101002),

Gene: GreenWeasel_36 Start: 26199, Stop: 26711, Start Num: 64

Candidate Starts for GreenWeasel_36:

(44, 26163), (Start: 64 @26199 has 2 MA's), (Start: 92 @26235 has 36 MA's), (Start: 113 @26280 has 6 MA's), (119, 26313), (121, 26322), (128, 26346), (176, 26550), (224, 26679),

Gene: Grif_41 Start: 28650, Stop: 28267, Start Num: 78

Candidate Starts for Grif_41:

(Start: 58 @28677 has 11 MA's), (Start: 78 @28650 has 123 MA's), (Start: 113 @28605 has 6 MA's), (154, 28434), (155, 28422),

Gene: Groupthink_41 Start: 28401, Stop: 28018, Start Num: 78

Candidate Starts for Groupthink_41:

(11, 28629), (Start: 58 @28428 has 11 MA's), (Start: 78 @28401 has 123 MA's), (Start: 113 @28356 has 6 MA's), (154, 28185), (155, 28173),

Gene: Grub_41 Start: 28595, Stop: 28185, Start Num: 58

Candidate Starts for Grub_41:

(Start: 58 @28595 has 11 MA's), (Start: 78 @28568 has 123 MA's), (Start: 113 @28523 has 6 MA's), (154, 28352), (155, 28340),

Gene: Grum1_41 Start: 28602, Stop: 28192, Start Num: 58

Candidate Starts for Grum1_41:

(Start: 58 @28602 has 11 MA's), (Start: 78 @28575 has 123 MA's), (Start: 113 @28530 has 6 MA's), (154, 28359), (155, 28347),

Gene: Gruunaga_40 Start: 26598, Stop: 26206, Start Num: 78
Candidate Starts for Gruunaga_40:
(Start: 78 @26598 has 123 MA's), (138, 26451), (148, 26406), (155, 26364), (160, 26337),

Gene: GtownJaz_41 Start: 28577, Stop: 28194, Start Num: 78
Candidate Starts for GtownJaz_41:
(Start: 58 @28604 has 11 MA's), (Start: 78 @28577 has 123 MA's), (Start: 113 @28532 has 6 MA's),
(154, 28361), (155, 28349),

Gene: Gusicorn_66 Start: 46400, Stop: 46861, Start Num: 71
Candidate Starts for Gusicorn_66:
(Start: 66 @46391 has 18 MA's), (Start: 71 @46400 has 10 MA's), (Start: 124 @46529 has 1 MA's),
(143, 46622), (171, 46730), (197, 46823),

Gene: HINdeR_35 Start: 29947, Stop: 29549, Start Num: 80
Candidate Starts for HINdeR_35:
(Start: 80 @29947 has 8 MA's), (155, 29719), (176, 29653), (191, 29587), (208, 29557),

Gene: Haizum_36 Start: 26732, Stop: 27217, Start Num: 87
Candidate Starts for Haizum_36:
(Start: 87 @26732 has 28 MA's), (119, 26816), (Start: 124 @26831 has 1 MA's), (172, 27047), (224,
27185), (231, 27200),

Gene: HamSlice_34 Start: 27802, Stop: 27206, Start Num: 96
Candidate Starts for HamSlice_34:
(Start: 96 @27802 has 144 MA's), (191, 27442), (211, 27403), (243, 27337), (244, 27334), (248,
27289), (249, 27277),

Gene: Hammer_40 Start: 26429, Stop: 26040, Start Num: 78
Candidate Starts for Hammer_40:
(Start: 78 @26429 has 123 MA's), (155, 26198), (160, 26171), (191, 26066),

Gene: HangryHippo_215 Start: 107854, Stop: 108144, Start Num: 130
Candidate Starts for HangryHippo_215:
(Start: 125 @107830 has 8 MA's), (Start: 127 @107842 has 15 MA's), (Start: 130 @107854 has 12
MA's), (144, 107920), (156, 107974), (158, 107989), (207, 108124),

Gene: Hank144_36 Start: 26811, Stop: 27266, Start Num: 96
Candidate Starts for Hank144_36:
(Start: 96 @26811 has 144 MA's), (Start: 110 @26844 has 3 MA's), (Start: 113 @26856 has 6 MA's),
(119, 26889), (121, 26898), (177, 27117), (224, 27234), (231, 27249),

Gene: Happiness_35 Start: 27809, Stop: 27213, Start Num: 96
Candidate Starts for Happiness_35:
(Start: 96 @27809 has 144 MA's), (191, 27449), (193, 27446), (211, 27410), (243, 27344), (244,
27341), (248, 27296), (249, 27284),

Gene: HashRod_41 Start: 28574, Stop: 28191, Start Num: 78
Candidate Starts for HashRod_41:
(Start: 58 @28601 has 11 MA's), (Start: 78 @28574 has 123 MA's), (107, 28547), (Start: 113 @28529
has 6 MA's), (154, 28358), (155, 28346),

Gene: HaugeAnator_54 Start: 29438, Stop: 29022, Start Num: 99

Candidate Starts for HaugeAnator_54:

(Start: 72 @29480 has 6 MA's), (Start: 99 @29438 has 14 MA's), (Start: 124 @29351 has 1 MA's),
(145, 29255), (146, 29252), (149, 29246), (167, 29168),

Gene: HaveUMetTed_41 Start: 28394, Stop: 28011, Start Num: 78

Candidate Starts for HaveUMetTed_41:

(Start: 58 @28421 has 11 MA's), (Start: 78 @28394 has 123 MA's), (Start: 113 @28349 has 6 MA's),
(154, 28178), (155, 28166),

Gene: Heathen_36 Start: 27607, Stop: 27221, Start Num: 78

Candidate Starts for Heathen_36:

(Start: 78 @27607 has 123 MA's), (151, 27409),

Gene: HelDan_36 Start: 27859, Stop: 27473, Start Num: 78

Candidate Starts for HelDan_36:

(Start: 78 @27859 has 123 MA's), (151, 27661),

Gene: Heliosoles_40 Start: 28401, Stop: 28018, Start Num: 78

Candidate Starts for Heliosoles_40:

(11, 28632), (Start: 58 @28428 has 11 MA's), (Start: 78 @28401 has 123 MA's), (Start: 113 @28356
has 6 MA's), (154, 28185), (155, 28173),

Gene: Hercules11_41 Start: 28611, Stop: 28201, Start Num: 58

Candidate Starts for Hercules11_41:

(Start: 58 @28611 has 11 MA's), (Start: 78 @28584 has 123 MA's), (Start: 113 @28539 has 6 MA's),
(154, 28368), (155, 28356),

Gene: Hexamo_40 Start: 26376, Stop: 25987, Start Num: 82

Candidate Starts for Hexamo_40:

(Start: 82 @26376 has 14 MA's), (138, 26232), (148, 26187), (155, 26145), (160, 26118),

Gene: Hippo_34 Start: 26056, Stop: 26544, Start Num: 77

Candidate Starts for Hippo_34:

(19, 25876), (23, 25912), (49, 26008), (Start: 77 @26056 has 61 MA's), (112, 26128), (119, 26164),
(121, 26173), (134, 26221), (143, 26275), (161, 26350), (176, 26386), (177, 26392), (224, 26512),
(240, 26539),

Gene: Holli_35 Start: 27594, Stop: 26998, Start Num: 96

Candidate Starts for Holli_35:

(Start: 96 @27594 has 144 MA's), (191, 27234), (193, 27231), (211, 27195), (243, 27129), (244,
27126), (248, 27081), (249, 27069),

Gene: Hookmount_35 Start: 27810, Stop: 27382, Start Num: 96

Candidate Starts for Hookmount_35:

(Start: 94 @27813 has 9 MA's), (Start: 96 @27810 has 144 MA's), (Start: 113 @27765 has 6 MA's),
(146, 27627), (193, 27450),

Gene: Hoot_40 Start: 26594, Stop: 26202, Start Num: 78

Candidate Starts for Hoot_40:

(Start: 78 @26594 has 123 MA's), (138, 26447), (148, 26402), (155, 26360), (160, 26333),

Gene: Hortihabitatio_65 Start: 47098, Stop: 47610, Start Num: 66

Candidate Starts for Hortihabitatio_65:

(37, 47032), (42, 47053), (61, 47089), (Start: 66 @47098 has 18 MA's), (Start: 71 @47107 has 10 MA's), (Start: 124 @47236 has 1 MA's), (155, 47374), (191, 47518),

Gene: Houdini22_35 Start: 27808, Stop: 27212, Start Num: 96

Candidate Starts for Houdini22_35:

(Start: 96 @27808 has 144 MA's), (191, 27448), (193, 27445), (211, 27409), (243, 27343), (244, 27340), (248, 27295), (249, 27283),

Gene: HuhtaEnerson15_32 Start: 26972, Stop: 26463, Start Num: 77

Candidate Starts for HuhtaEnerson15_32:

(Start: 77 @26972 has 61 MA's),

Gene: Hydra_36 Start: 26216, Stop: 26704, Start Num: 77

Candidate Starts for Hydra_36:

(49, 26168), (Start: 77 @26216 has 61 MA's), (112, 26288), (121, 26333), (143, 26435), (177, 26552), (224, 26672), (240, 26699),

Gene: Hydrus_66 Start: 47228, Stop: 47680, Start Num: 71

Candidate Starts for Hydrus_66:

(38, 47162), (56, 47207), (Start: 66 @47219 has 18 MA's), (Start: 71 @47228 has 10 MA's), (Start: 124 @47360 has 1 MA's), (140, 47426), (143, 47453), (157, 47516), (171, 47561),

Gene: ICleared_35 Start: 27836, Stop: 27261, Start Num: 96

Candidate Starts for ICleared_35:

(Start: 96 @27836 has 144 MA's), (193, 27473), (211, 27437), (244, 27368), (248, 27323), (249, 27311),

Gene: Ibantik_13 Start: 5594, Stop: 5154, Start Num: 90

Candidate Starts for Ibantik_13:

(Start: 90 @5594 has 6 MA's), (177, 5291), (215, 5186),

Gene: Iceman_36 Start: 28093, Stop: 27497, Start Num: 96

Candidate Starts for Iceman_36:

(Start: 96 @28093 has 144 MA's), (191, 27733), (193, 27730), (211, 27694), (243, 27628), (244, 27625), (248, 27580), (249, 27568),

Gene: IchabodCrane_225 Start: 108836, Stop: 109204, Start Num: 108

Candidate Starts for IchabodCrane_225:

(Start: 108 @108836 has 25 MA's), (Start: 125 @108896 has 8 MA's), (Start: 130 @108920 has 12 MA's), (141, 108965), (144, 108986), (152, 109007), (156, 109040), (158, 109055), (207, 109190),

Gene: Idleandcovert_36 Start: 27799, Stop: 27413, Start Num: 78

Candidate Starts for Idleandcovert_36:

(Start: 78 @27799 has 123 MA's), (151, 27601),

Gene: Immanuel3_53 Start: 29441, Stop: 29025, Start Num: 99

Candidate Starts for Immanuel3_53:

(Start: 72 @29483 has 6 MA's), (Start: 99 @29441 has 14 MA's), (Start: 124 @29354 has 1 MA's), (134, 29315), (143, 29264), (149, 29249), (151, 29243),

Gene: Indigo_33 Start: 25684, Stop: 26172, Start Num: 77

Candidate Starts for Indigo_33:

(49, 25636), (Start: 77 @25684 has 61 MA's), (112, 25756), (121, 25801), (143, 25903), (177, 26020), (224, 26140), (240, 26167),

Gene: Indra_42 Start: 26618, Stop: 26226, Start Num: 78

Candidate Starts for Indra_42:

(Start: 78 @26618 has 123 MA's), (138, 26471), (148, 26426), (155, 26384), (160, 26357),

Gene: Iracema64_36 Start: 28062, Stop: 27583, Start Num: 96

Candidate Starts for Iracema64_36:

(Start: 96 @28062 has 144 MA's), (185, 27729), (191, 27702),

Gene: Isca_36 Start: 27568, Stop: 27182, Start Num: 78

Candidate Starts for Isca_36:

(Start: 78 @27568 has 123 MA's),

Gene: Isiphiwo_40 Start: 26688, Stop: 26296, Start Num: 78

Candidate Starts for Isiphiwo_40:

(Start: 78 @26688 has 123 MA's), (138, 26541), (148, 26496), (155, 26454), (160, 26427), (161, 26424),

Gene: Issmi_36 Start: 27365, Stop: 27823, Start Num: 87

Candidate Starts for Issmi_36:

(Start: 87 @27365 has 28 MA's), (Start: 113 @27410 has 6 MA's), (119, 27443), (121, 27452), (176, 27665), (177, 27671), (185, 27704), (224, 27791), (231, 27806),

Gene: Izzy_35 Start: 26089, Stop: 26577, Start Num: 77

Candidate Starts for Izzy_35:

(31, 25984), (49, 26041), (Start: 77 @26089 has 61 MA's), (112, 26161), (121, 26206), (143, 26308), (177, 26425), (224, 26545), (240, 26572),

Gene: JF2_36 Start: 27319, Stop: 26933, Start Num: 78

Candidate Starts for JF2_36:

(Start: 78 @27319 has 123 MA's),

Gene: JF4_36 Start: 27319, Stop: 26933, Start Num: 78

Candidate Starts for JF4_36:

(Start: 78 @27319 has 123 MA's),

Gene: JHC117_41 Start: 28574, Stop: 28191, Start Num: 78

Candidate Starts for JHC117_41:

(Start: 58 @28601 has 11 MA's), (Start: 78 @28574 has 123 MA's), (Start: 113 @28529 has 6 MA's), (154, 28358), (155, 28346),

Gene: Jabiru_33 Start: 26731, Stop: 26219, Start Num: 78

Candidate Starts for Jabiru_33:

(Start: 78 @26731 has 123 MA's), (142, 26554),

Gene: Janus_35 Start: 26738, Stop: 27211, Start Num: 92

Candidate Starts for Janus_35:

(Start: 92 @26738 has 36 MA's), (Start: 113 @26783 has 6 MA's), (116, 26792), (119, 26816), (121, 26825), (132, 26858), (162, 27008), (224, 27179), (231, 27194),

Gene: Jash_35 Start: 26042, Stop: 26530, Start Num: 77

Candidate Starts for Jash_35:

(31, 25937), (49, 25994), (Start: 77 @26042 has 61 MA's), (112, 26114), (121, 26159), (143, 26261), (177, 26378), (224, 26498), (240, 26525),

Gene: Jay2Jay_222 Start: 108801, Stop: 109115, Start Num: 125

Candidate Starts for Jay2Jay_222:

(Start: 125 @108801 has 8 MA's), (Start: 127 @108813 has 15 MA's), (Start: 130 @108825 has 12 MA's), (144, 108891), (156, 108945), (158, 108960), (207, 109095),

Gene: Jaykayelowell_35 Start: 27800, Stop: 27204, Start Num: 96

Candidate Starts for Jaykayelowell_35:

(Start: 96 @27800 has 144 MA's), (191, 27440), (193, 27437), (211, 27401), (243, 27335), (244, 27332), (248, 27287), (249, 27275),

Gene: Jeffabunny_40 Start: 26412, Stop: 26023, Start Num: 82

Candidate Starts for Jeffabunny_40:

(Start: 82 @26412 has 14 MA's), (138, 26268), (148, 26223), (155, 26181), (160, 26154),

Gene: JenCasNa_41 Start: 28575, Stop: 28192, Start Num: 78

Candidate Starts for JenCasNa_41:

(Start: 58 @28602 has 11 MA's), (Start: 78 @28575 has 123 MA's), (Start: 113 @28530 has 6 MA's), (154, 28359), (155, 28347),

Gene: JeppNRM_41 Start: 28399, Stop: 28016, Start Num: 78

Candidate Starts for JeppNRM_41:

(11, 28630), (Start: 58 @28426 has 11 MA's), (Start: 78 @28399 has 123 MA's), (Start: 113 @28354 has 6 MA's), (154, 28183), (155, 28171),

Gene: JetBlade_35 Start: 27801, Stop: 27205, Start Num: 96

Candidate Starts for JetBlade_35:

(Start: 96 @27801 has 144 MA's), (191, 27441), (193, 27438), (211, 27402), (243, 27336), (244, 27333), (248, 27288), (249, 27276),

Gene: Jevington_37 Start: 27148, Stop: 27609, Start Num: 87

Candidate Starts for Jevington_37:

(Start: 87 @27148 has 28 MA's), (Start: 113 @27196 has 6 MA's), (119, 27229), (176, 27451), (177, 27457), (185, 27490), (224, 27577), (231, 27592),

Gene: JewelBug_41 Start: 26622, Stop: 26230, Start Num: 78

Candidate Starts for JewelBug_41:

(Start: 78 @26622 has 123 MA's), (138, 26475), (148, 26430), (155, 26388), (160, 26361),

Gene: JimJam_238 Start: 110757, Stop: 111125, Start Num: 108

Candidate Starts for JimJam_238:

(Start: 108 @110757 has 25 MA's), (Start: 125 @110817 has 8 MA's), (Start: 130 @110841 has 12 MA's), (144, 110907), (152, 110928), (156, 110961), (158, 110976), (207, 111111),

Gene: Jobu08_40 Start: 28405, Stop: 28022, Start Num: 78

Candidate Starts for Jobu08_40:

(Start: 58 @28432 has 11 MA's), (Start: 78 @28405 has 123 MA's), (Start: 113 @28360 has 6 MA's), (154, 28189), (155, 28177),

Gene: Jodelie19_62 Start: 47735, Stop: 48253, Start Num: 36

Candidate Starts for Jodelie19_62:

(Start: 36 @47735 has 1 MA's), (45, 47768), (Start: 66 @47798 has 18 MA's), (Start: 71 @47807 has 10 MA's), (Start: 124 @47939 has 1 MA's), (143, 48032), (171, 48140), (184, 48191),

Gene: Jollison_228 Start: 108967, Stop: 109335, Start Num: 108

Candidate Starts for Jollison_228:

(Start: 108 @108967 has 25 MA's), (Start: 125 @109027 has 8 MA's), (Start: 130 @109051 has 12 MA's), (144, 109117), (152, 109138), (156, 109171), (158, 109186), (207, 109321),

Gene: JoongJeon_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for JoongJeon_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Jordennis_40 Start: 26606, Stop: 26214, Start Num: 78

Candidate Starts for Jordennis_40:

(Start: 78 @26606 has 123 MA's), (138, 26459), (148, 26414), (155, 26372), (160, 26345),

Gene: Jovo_32 Start: 27162, Stop: 26653, Start Num: 77

Candidate Starts for Jovo_32:

(Start: 77 @27162 has 61 MA's),

Gene: JulesRay_67 Start: 46637, Stop: 47002, Start Num: 124

Candidate Starts for JulesRay_67:

(Start: 60 @46487 has 10 MA's), (107, 46571), (Start: 110 @46577 has 3 MA's), (Start: 124 @46637 has 1 MA's), (129, 46658), (139, 46694), (143, 46730), (163, 46814), (193, 46922), (199, 46937), (219, 46970), (221, 46973), (230, 46994),

Gene: JustBecause_213 Start: 126485, Stop: 127003, Start Num: 87

Candidate Starts for JustBecause_213:

(20, 126302), (Start: 87 @126485 has 28 MA's), (107, 126524), (180, 126833), (185, 126845), (186, 126857), (210, 126908),

Gene: KADY_41 Start: 28574, Stop: 28191, Start Num: 78

Candidate Starts for KADY_41:

(Start: 58 @28601 has 11 MA's), (Start: 78 @28574 has 123 MA's), (107, 28547), (Start: 113 @28529 has 6 MA's), (154, 28358), (155, 28346),

Gene: KFPoly_35 Start: 27801, Stop: 27205, Start Num: 96

Candidate Starts for KFPoly_35:

(Start: 96 @27801 has 144 MA's), (191, 27441), (193, 27438), (211, 27402), (243, 27336), (244, 27333), (248, 27288), (249, 27276),

Gene: Kachowdy_36 Start: 27859, Stop: 27473, Start Num: 78

Candidate Starts for Kachowdy_36:

(Start: 78 @27859 has 123 MA's), (151, 27661),

Gene: Kaine_35 Start: 27263, Stop: 27667, Start Num: 92

Candidate Starts for Kaine_35:

(Start: 92 @27263 has 36 MA's), (116, 27317), (121, 27350), (132, 27383), (191, 27644), (194, 27650),

Gene: Kalb97_41 Start: 28400, Stop: 28017, Start Num: 78

Candidate Starts for Kalb97_41:

(11, 28628), (Start: 58 @28427 has 11 MA's), (Start: 78 @28400 has 123 MA's), (Start: 113 @28355 has 6 MA's), (154, 28184), (155, 28172),

Gene: Kalnoky_41 Start: 28401, Stop: 28018, Start Num: 78

Candidate Starts for Kalnoky_41:

(11, 28626), (Start: 58 @28428 has 11 MA's), (Start: 78 @28401 has 123 MA's), (Start: 113 @28356 has 6 MA's), (154, 28185), (155, 28173),

Gene: Karimac_231 Start: 109152, Stop: 109520, Start Num: 108

Candidate Starts for Karimac_231:

(Start: 108 @109152 has 25 MA's), (Start: 125 @109212 has 8 MA's), (Start: 130 @109236 has 12 MA's), (144, 109302), (152, 109323), (156, 109356), (158, 109371), (207, 109506),

Gene: Katalie_34 Start: 26236, Stop: 26655, Start Num: 92

Candidate Starts for Katalie_34:

(Start: 92 @26236 has 36 MA's), (112, 26281), (Start: 113 @26284 has 6 MA's), (121, 26326), (135, 26377), (138, 26386), (143, 26428), (168, 26530),

Gene: Katalie136_35 Start: 27837, Stop: 27262, Start Num: 96

Candidate Starts for Katalie136_35:

(Start: 58 @27867 has 11 MA's), (Start: 96 @27837 has 144 MA's), (193, 27474), (244, 27369), (248, 27324), (249, 27312),

Gene: Kazan_41 Start: 26622, Stop: 26230, Start Num: 78

Candidate Starts for Kazan_41:

(Start: 78 @26622 has 123 MA's), (138, 26475), (148, 26430), (155, 26388), (160, 26361),

Gene: Kela_211 Start: 126330, Stop: 126848, Start Num: 87

Candidate Starts for Kela_211:

(20, 126147), (Start: 87 @126330 has 28 MA's), (107, 126369), (180, 126678), (185, 126690), (186, 126702), (210, 126753),

Gene: Kenosha_63 Start: 46678, Stop: 47133, Start Num: 66

Candidate Starts for Kenosha_63:

(38, 46621), (50, 46657), (Start: 66 @46678 has 18 MA's), (Start: 71 @46687 has 10 MA's), (Start: 124 @46816 has 1 MA's), (143, 46909), (171, 47017), (184, 47068),

Gene: KentuckyRacer_237 Start: 110672, Stop: 111040, Start Num: 108

Candidate Starts for KentuckyRacer_237:

(Start: 108 @110672 has 25 MA's), (Start: 125 @110732 has 8 MA's), (Start: 130 @110756 has 12 MA's), (144, 110822), (152, 110843), (156, 110876), (158, 110891), (207, 111026),

Gene: Kerberos_40 Start: 27983, Stop: 27597, Start Num: 81

Candidate Starts for Kerberos_40:

(Start: 81 @27983 has 15 MA's), (155, 27752),

Gene: Kerry_64 Start: 45990, Stop: 46505, Start Num: 60

Candidate Starts for Kerry_64:

(Start: 60 @45990 has 10 MA's), (107, 46074), (Start: 110 @46080 has 3 MA's), (Start: 124 @46140 has 1 MA's), (129, 46161), (139, 46197), (143, 46233), (163, 46317), (193, 46425), (199, 46440), (219, 46473), (221, 46476), (230, 46497),

Gene: Kimona_33 Start: 25900, Stop: 25490, Start Num: 80
Candidate Starts for Kimona_33:
(Start: 80 @25900 has 8 MA's), (138, 25753), (155, 25672), (185, 25567),

Gene: Kingmustik0402_35 Start: 27796, Stop: 27200, Start Num: 96
Candidate Starts for Kingmustik0402_35:
(Start: 96 @27796 has 144 MA's), (191, 27436), (193, 27433), (211, 27397), (243, 27331), (244, 27328), (248, 27283), (249, 27271),

Gene: Kipper29_40 Start: 26610, Stop: 26224, Start Num: 82
Candidate Starts for Kipper29_40:
(Start: 82 @26610 has 14 MA's), (155, 26382), (160, 26355),

Gene: KittenMittens_33 Start: 26664, Stop: 26080, Start Num: 96
Candidate Starts for KittenMittens_33:
(16, 26859), (Start: 96 @26664 has 144 MA's), (191, 26304), (200, 26286),

Gene: Koko_40 Start: 26968, Stop: 26579, Start Num: 78
Candidate Starts for Koko_40:
(Start: 78 @26968 has 123 MA's), (155, 26737), (160, 26710), (191, 26605),

Gene: Koreni_34 Start: 27485, Stop: 26910, Start Num: 96
Candidate Starts for Koreni_34:
(Start: 96 @27485 has 144 MA's), (193, 27122), (211, 27086), (244, 27017), (248, 26972), (249, 26960),

Gene: Kradal_214 Start: 129330, Stop: 129839, Start Num: 87
Candidate Starts for Kradal_214:
(20, 129147), (Start: 87 @129330 has 28 MA's), (141, 129504), (173, 129621), (213, 129738), (245, 129804), (247, 129834),

Gene: Kratak_35 Start: 27746, Stop: 27267, Start Num: 96
Candidate Starts for Kratak_35:
(Start: 96 @27746 has 144 MA's), (185, 27413), (191, 27386),

Gene: Kremtemulon_35 Start: 27796, Stop: 27317, Start Num: 80
Candidate Starts for Kremtemulon_35:
(Start: 58 @27826 has 11 MA's), (Start: 80 @27796 has 8 MA's), (185, 27463), (191, 27436),

Gene: Kristoff_37 Start: 28181, Stop: 27642, Start Num: 72
Candidate Starts for Kristoff_37:
(Start: 72 @28181 has 6 MA's), (186, 27824), (191, 27809),

Gene: Kumquat_54 Start: 29457, Stop: 29041, Start Num: 99
Candidate Starts for Kumquat_54:
(34, 29580), (Start: 88 @29472 has 1 MA's), (Start: 99 @29457 has 14 MA's), (155, 29229),

Gene: Kyee_35 Start: 27802, Stop: 27206, Start Num: 96
Candidate Starts for Kyee_35:
(Start: 96 @27802 has 144 MA's), (191, 27442), (193, 27439), (211, 27403), (243, 27337), (244, 27334), (248, 27289), (249, 27277),

Gene: LBerry_41 Start: 28576, Stop: 28193, Start Num: 78

Candidate Starts for LBerry_41:

(Start: 58 @28603 has 11 MA's), (Start: 78 @28576 has 123 MA's), (Start: 113 @28531 has 6 MA's), (154, 28360), (155, 28348),

Gene: LHTSCC_37 Start: 28100, Stop: 27660, Start Num: 96

Candidate Starts for LHTSCC_37:

(Start: 96 @28100 has 144 MA's), (191, 27740), (193, 27737),

Gene: Lambert1_35 Start: 27809, Stop: 27381, Start Num: 96

Candidate Starts for Lambert1_35:

(Start: 94 @27812 has 9 MA's), (Start: 96 @27809 has 144 MA's), (Start: 113 @27764 has 6 MA's), (146, 27626), (193, 27449),

Gene: Lannister_36 Start: 26707, Stop: 27195, Start Num: 77

Candidate Starts for Lannister_36:

(19, 26527), (49, 26659), (Start: 77 @26707 has 61 MA's), (112, 26779), (185, 27076), (224, 27163), (240, 27190),

Gene: LappelDuVide_35 Start: 27803, Stop: 27207, Start Num: 96

Candidate Starts for LappelDuVide_35:

(Start: 96 @27803 has 144 MA's), (191, 27443), (193, 27440), (211, 27404), (243, 27338), (244, 27335), (248, 27290), (249, 27278),

Gene: Larnav_216 Start: 108336, Stop: 108638, Start Num: 127

Candidate Starts for Larnav_216:

(Start: 125 @108324 has 8 MA's), (Start: 127 @108336 has 15 MA's), (Start: 130 @108348 has 12 MA's), (144, 108414), (156, 108468), (158, 108483), (207, 108618),

Gene: LarryKay_40 Start: 28576, Stop: 28193, Start Num: 78

Candidate Starts for LarryKay_40:

(Start: 58 @28603 has 11 MA's), (Start: 78 @28576 has 123 MA's), (107, 28549), (Start: 113 @28531 has 6 MA's), (154, 28360), (155, 28348),

Gene: Legacy_34 Start: 25659, Stop: 26147, Start Num: 77

Candidate Starts for Legacy_34:

(49, 25611), (Start: 77 @25659 has 61 MA's), (112, 25731), (121, 25776), (143, 25878), (177, 25995), (224, 26115), (240, 26142),

Gene: Lemur_35 Start: 27801, Stop: 27205, Start Num: 96

Candidate Starts for Lemur_35:

(Start: 96 @27801 has 144 MA's), (191, 27441), (193, 27438), (211, 27402), (243, 27336), (244, 27333), (248, 27288), (249, 27276),

Gene: Leo04_217 Start: 108856, Stop: 109170, Start Num: 125

Candidate Starts for Leo04_217:

(Start: 125 @108856 has 8 MA's), (Start: 127 @108868 has 15 MA's), (Start: 130 @108880 has 12 MA's), (144, 108946), (156, 109000), (158, 109015), (207, 109150),

Gene: Lev2_32 Start: 26794, Stop: 26285, Start Num: 77

Candidate Starts for Lev2_32:

(Start: 77 @26794 has 61 MA's),

Gene: Leviticus_34 Start: 25688, Stop: 26176, Start Num: 77

Candidate Starts for Leviticus_34:

(49, 25640), (Start: 77 @25688 has 61 MA's), (112, 25760), (121, 25805), (143, 25907), (177, 26024), (224, 26144), (240, 26171),

Gene: Lika_34 Start: 26509, Stop: 26988, Start Num: 90

Candidate Starts for Lika_34:

(Start: 90 @26509 has 6 MA's), (119, 26590), (Start: 124 @26605 has 1 MA's), (166, 26800), (224, 26956), (231, 26971),

Gene: LilMartin_216 Start: 106835, Stop: 107152, Start Num: 127

Candidate Starts for LilMartin_216:

(104, 106754), (Start: 125 @106823 has 8 MA's), (Start: 127 @106835 has 15 MA's), (Start: 130 @106847 has 12 MA's), (137, 106874), (144, 106913), (156, 106967), (158, 106982), (189, 107084), (217, 107135), (219, 107138),

Gene: Lilbooboo_46 Start: 33605, Stop: 34009, Start Num: 96

Candidate Starts for Lilbooboo_46:

(27, 33455), (Start: 87 @33593 has 28 MA's), (Start: 96 @33605 has 144 MA's), (Start: 124 @33698 has 1 MA's), (138, 33752), (193, 33974),

Gene: Lilbunny_39 Start: 26386, Stop: 25997, Start Num: 82

Candidate Starts for Lilbunny_39:

(Start: 82 @26386 has 14 MA's), (138, 26242), (148, 26197), (155, 26155), (160, 26128),

Gene: Lilit_41 Start: 28569, Stop: 28186, Start Num: 78

Candidate Starts for Lilit_41:

(Start: 58 @28596 has 11 MA's), (Start: 78 @28569 has 123 MA's), (Start: 113 @28524 has 6 MA's), (154, 28353), (155, 28341),

Gene: LittleB_35 Start: 27805, Stop: 27209, Start Num: 96

Candidate Starts for LittleB_35:

(Start: 96 @27805 has 144 MA's), (191, 27445), (193, 27442), (211, 27406), (243, 27340), (244, 27337), (248, 27292), (249, 27280),

Gene: LittleCherry_32 Start: 26982, Stop: 26473, Start Num: 77

Candidate Starts for LittleCherry_32:

(Start: 77 @26982 has 61 MA's),

Gene: LittleGuy_35 Start: 27703, Stop: 27230, Start Num: 96

Candidate Starts for LittleGuy_35:

(Start: 96 @27703 has 144 MA's), (187, 27352), (193, 27340), (226, 27280), (236, 27268),

Gene: Lizz_71 Start: 50574, Stop: 50158, Start Num: 85

Candidate Starts for Lizz_71:

(Start: 85 @50574 has 2 MA's), (Start: 110 @50526 has 3 MA's), (Start: 113 @50514 has 6 MA's), (115, 50508), (118, 50493), (119, 50481), (160, 50295), (161, 50292), (178, 50250), (201, 50187), (209, 50175),

Gene: LochMonster_35 Start: 27843, Stop: 27247, Start Num: 96

Candidate Starts for LochMonster_35:

(Start: 96 @27843 has 144 MA's), (191, 27483), (193, 27480), (211, 27444), (243, 27378), (244, 27375), (248, 27330), (249, 27318),

Gene: Loofah_35 Start: 26915, Stop: 27400, Start Num: 87
Candidate Starts for Loofah_35:
(Start: 87 @26915 has 28 MA's), (119, 26999), (Start: 124 @27014 has 1 MA's), (224, 27368), (231, 27383),

Gene: Lorelei_35 Start: 26571, Stop: 27047, Start Num: 92
Candidate Starts for Lorelei_35:
(19, 26373), (23, 26409), (49, 26505), (Start: 87 @26565 has 28 MA's), (Start: 92 @26571 has 36 MA's), (119, 26649), (Start: 124 @26664 has 1 MA's), (166, 26859), (224, 27015), (231, 27030),

Gene: Lorenzo_35 Start: 27804, Stop: 27208, Start Num: 96
Candidate Starts for Lorenzo_35:
(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Louie6_40 Start: 28575, Stop: 28192, Start Num: 78
Candidate Starts for Louie6_40:
(Start: 58 @28602 has 11 MA's), (Start: 78 @28575 has 123 MA's), (107, 28548), (Start: 113 @28530 has 6 MA's), (154, 28359), (155, 28347),

Gene: Lozinak_146 Start: 79968, Stop: 80357, Start Num: 97
Candidate Starts for Lozinak_146:
(Start: 97 @79968 has 4 MA's), (Start: 136 @80106 has 1 MA's), (193, 80328), (202, 80346),

Gene: LugYA_43 Start: 28576, Stop: 28193, Start Num: 78
Candidate Starts for LugYA_43:
(Start: 58 @28603 has 11 MA's), (Start: 78 @28576 has 123 MA's), (Start: 113 @28531 has 6 MA's), (154, 28360), (155, 28348),

Gene: LukeCage_234 Start: 111003, Stop: 111371, Start Num: 108
Candidate Starts for LukeCage_234:
(95, 110970), (Start: 102 @110988 has 1 MA's), (Start: 108 @111003 has 25 MA's), (Start: 125 @111063 has 8 MA's), (126, 111069), (Start: 130 @111087 has 12 MA's), (144, 111153), (156, 111207), (158, 111222), (207, 111357),

Gene: Lululemon_213 Start: 107235, Stop: 107525, Start Num: 130
Candidate Starts for Lululemon_213:
(Start: 125 @107211 has 8 MA's), (Start: 127 @107223 has 15 MA's), (Start: 130 @107235 has 12 MA's), (144, 107301), (156, 107355), (158, 107370), (207, 107505),

Gene: Lunsford_36 Start: 27801, Stop: 27205, Start Num: 96
Candidate Starts for Lunsford_36:
(Start: 96 @27801 has 144 MA's), (191, 27441), (193, 27438), (211, 27402), (243, 27336), (244, 27333), (248, 27288), (249, 27276),

Gene: MA5_36 Start: 27451, Stop: 27065, Start Num: 78
Candidate Starts for MA5_36:
(Start: 78 @27451 has 123 MA's), (151, 27253),

Gene: MK4_36 Start: 27553, Stop: 27167, Start Num: 78
Candidate Starts for MK4_36:
(Start: 78 @27553 has 123 MA's),

Gene: MadMarie_41 Start: 28578, Stop: 28195, Start Num: 78

Candidate Starts for MadMarie_41:

(Start: 58 @28605 has 11 MA's), (Start: 78 @28578 has 123 MA's), (Start: 113 @28533 has 6 MA's), (154, 28362), (155, 28350),

Gene: Madvan_64 Start: 46114, Stop: 46566, Start Num: 71

Candidate Starts for Madvan_64:

(38, 46048), (Start: 66 @46105 has 18 MA's), (Start: 71 @46114 has 10 MA's), (Start: 124 @46246 has 1 MA's), (140, 46312), (143, 46339), (157, 46402), (171, 46447),

Gene: Magel_66 Start: 46272, Stop: 46742, Start Num: 86

Candidate Starts for Magel_66:

(46, 46203), (Start: 60 @46227 has 10 MA's), (Start: 86 @46272 has 4 MA's), (107, 46311), (Start: 110 @46317 has 3 MA's), (Start: 124 @46377 has 1 MA's), (129, 46398), (139, 46434), (143, 46470), (163, 46554), (193, 46662), (199, 46677), (219, 46710), (221, 46713), (230, 46734),

Gene: Mainiac_41 Start: 28569, Stop: 28186, Start Num: 78

Candidate Starts for Mainiac_41:

(Start: 58 @28596 has 11 MA's), (Start: 78 @28569 has 123 MA's), (Start: 113 @28524 has 6 MA's), (154, 28353), (155, 28341),

Gene: Malinsilva_43 Start: 28568, Stop: 28185, Start Num: 78

Candidate Starts for Malinsilva_43:

(Start: 58 @28595 has 11 MA's), (Start: 78 @28568 has 123 MA's), (Start: 113 @28523 has 6 MA's), (154, 28352), (155, 28340),

Gene: Maneekul_34 Start: 26078, Stop: 26566, Start Num: 77

Candidate Starts for Maneekul_34:

(19, 25898), (49, 26030), (Start: 77 @26078 has 61 MA's), (112, 26150), (119, 26186), (121, 26195), (134, 26243), (176, 26408), (177, 26414), (224, 26534), (240, 26561),

Gene: Manu_41 Start: 28401, Stop: 28018, Start Num: 78

Candidate Starts for Manu_41:

(11, 28629), (Start: 58 @28428 has 11 MA's), (Start: 78 @28401 has 123 MA's), (Start: 113 @28356 has 6 MA's), (154, 28185), (155, 28173),

Gene: Manuel_51 Start: 29161, Stop: 28748, Start Num: 100

Candidate Starts for Manuel_51:

(Start: 100 @29161 has 1 MA's), (105, 29143), (Start: 124 @29077 has 1 MA's), (153, 28960), (169, 28885),

Gene: MarQuardt_41 Start: 28577, Stop: 28194, Start Num: 78

Candidate Starts for MarQuardt_41:

(Start: 58 @28604 has 11 MA's), (Start: 78 @28577 has 123 MA's), (Start: 113 @28532 has 6 MA's), (154, 28361), (155, 28349),

Gene: Marav_38 Start: 27473, Stop: 27934, Start Num: 87

Candidate Starts for Marav_38:

(Start: 87 @27473 has 28 MA's), (Start: 113 @27521 has 6 MA's), (119, 27554), (176, 27776), (177, 27782), (185, 27815), (224, 27902), (231, 27917),

Gene: Marchesa_36 Start: 27857, Stop: 27471, Start Num: 78

Candidate Starts for Marchesa_36:

(Start: 78 @27857 has 123 MA's), (151, 27659),

Gene: Mareelih_173 Start: 101362, Stop: 100859, Start Num: 91

Candidate Starts for Mareelih_173:

(Start: 91 @101362 has 3 MA's), (161, 101086), (171, 101065), (177, 101044), (223, 100924), (240, 100894),

Gene: Margo_35 Start: 27838, Stop: 27407, Start Num: 94

Candidate Starts for Margo_35:

(Start: 94 @27838 has 9 MA's), (Start: 96 @27835 has 144 MA's), (Start: 113 @27790 has 6 MA's), (146, 27652), (193, 27475),

Gene: Marie_41 Start: 28575, Stop: 28192, Start Num: 78

Candidate Starts for Marie_41:

(Start: 58 @28602 has 11 MA's), (Start: 78 @28575 has 123 MA's), (Start: 113 @28530 has 6 MA's), (154, 28359), (155, 28347),

Gene: Marius_41 Start: 28401, Stop: 28018, Start Num: 78

Candidate Starts for Marius_41:

(11, 28626), (Start: 58 @28428 has 11 MA's), (Start: 78 @28401 has 123 MA's), (Start: 113 @28356 has 6 MA's), (154, 28185), (155, 28173),

Gene: MarysWell_31 Start: 27030, Stop: 26521, Start Num: 77

Candidate Starts for MarysWell_31:

(Start: 77 @27030 has 61 MA's),

Gene: Maverick_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Maverick_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Maxo_36 Start: 27800, Stop: 27324, Start Num: 96

Candidate Starts for Maxo_36:

(Start: 96 @27800 has 144 MA's), (Start: 113 @27755 has 6 MA's), (146, 27617), (187, 27452), (193, 27440), (226, 27380), (236, 27368),

Gene: Mazhar510_35 Start: 27805, Stop: 27209, Start Num: 96

Candidate Starts for Mazhar510_35:

(Start: 96 @27805 has 144 MA's), (191, 27445), (193, 27442), (211, 27406), (243, 27340), (244, 27337), (248, 27292), (249, 27280),

Gene: McFly_40 Start: 26616, Stop: 26224, Start Num: 78

Candidate Starts for McFly_40:

(Start: 78 @26616 has 123 MA's), (138, 26469), (148, 26424), (155, 26382), (160, 26355),

Gene: Medusa_36 Start: 27803, Stop: 27324, Start Num: 96

Candidate Starts for Medusa_36:

(Start: 96 @27803 has 144 MA's), (187, 27452), (193, 27440), (226, 27380), (236, 27368),

Gene: MeeZee_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for MeeZee_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Melvin_37 Start: 27802, Stop: 27323, Start Num: 96

Candidate Starts for Melvin_37:

(Start: 96 @27802 has 144 MA's), (187, 27451), (193, 27439), (226, 27379), (236, 27367),

Gene: Methuselah_39 Start: 28570, Stop: 28187, Start Num: 78

Candidate Starts for Methuselah_39:

(Start: 58 @28597 has 11 MA's), (Start: 78 @28570 has 123 MA's), (107, 28543), (Start: 113 @28525 has 6 MA's), (154, 28354), (155, 28342),

Gene: Micasa_32 Start: 26944, Stop: 26438, Start Num: 83

Candidate Starts for Micasa_32:

(Start: 83 @26944 has 5 MA's),

Gene: Microwolf_41 Start: 28577, Stop: 28194, Start Num: 78

Candidate Starts for Microwolf_41:

(Start: 58 @28604 has 11 MA's), (Start: 78 @28577 has 123 MA's), (Start: 113 @28532 has 6 MA's), (154, 28361), (155, 28349),

Gene: Midas2_32 Start: 27021, Stop: 26512, Start Num: 77

Candidate Starts for Midas2_32:

(Start: 77 @27021 has 61 MA's),

Gene: Milcery_32 Start: 26986, Stop: 26477, Start Num: 77

Candidate Starts for Milcery_32:

(Start: 77 @26986 has 61 MA's),

Gene: Mildred21_226 Start: 106654, Stop: 106920, Start Num: 136

Candidate Starts for Mildred21_226:

(Start: 125 @106606 has 8 MA's), (Start: 130 @106630 has 12 MA's), (Start: 136 @106654 has 1 MA's), (144, 106696), (152, 106717), (156, 106750), (158, 106765), (160, 106771), (177, 106810), (207, 106900),

Gene: Millski_34 Start: 27808, Stop: 27212, Start Num: 96

Candidate Starts for Millski_34:

(Start: 96 @27808 has 144 MA's), (191, 27448), (193, 27445), (211, 27409), (243, 27343), (244, 27340), (248, 27295), (249, 27283),

Gene: MindFlayer_224 Start: 108352, Stop: 108720, Start Num: 108

Candidate Starts for MindFlayer_224:

(Start: 108 @108352 has 25 MA's), (Start: 125 @108412 has 8 MA's), (Start: 130 @108436 has 12 MA's), (141, 108481), (144, 108502), (152, 108523), (156, 108556), (158, 108571), (207, 108706),

Gene: Miramae_35 Start: 28016, Stop: 27537, Start Num: 80

Candidate Starts for Miramae_35:

(Start: 80 @28016 has 8 MA's), (119, 27938), (121, 27929), (142, 27842), (191, 27656), (199, 27638), (218, 27605),

Gene: Misomonster_42 Start: 28573, Stop: 28190, Start Num: 78

Candidate Starts for Misomonster_42:

(Start: 58 @28600 has 11 MA's), (Start: 78 @28573 has 123 MA's), (107, 28546), (Start: 113 @28528 has 6 MA's), (154, 28357), (155, 28345),

Gene: MoneyMay_41 Start: 28602, Stop: 28192, Start Num: 58
Candidate Starts for MoneyMay_41:
(Start: 58 @28602 has 11 MA's), (Start: 78 @28575 has 123 MA's), (Start: 113 @28530 has 6 MA's),
(154, 28359), (155, 28347),

Gene: Morpher26_35 Start: 27858, Stop: 27262, Start Num: 96
Candidate Starts for Morpher26_35:
(Start: 58 @27888 has 11 MA's), (Start: 96 @27858 has 144 MA's), (191, 27498), (193, 27495), (211,
27459), (243, 27393), (244, 27390), (248, 27345), (249, 27333),

Gene: Morrow_36 Start: 27804, Stop: 27328, Start Num: 96
Candidate Starts for Morrow_36:
(Start: 96 @27804 has 144 MA's), (Start: 113 @27759 has 6 MA's), (146, 27621), (187, 27456), (193,
27444), (226, 27384), (236, 27372),

Gene: Mossy_67 Start: 48112, Stop: 48564, Start Num: 66
Candidate Starts for Mossy_67:
(38, 48055), (Start: 66 @48112 has 18 MA's), (Start: 71 @48121 has 10 MA's), (Start: 124 @48250
has 1 MA's), (140, 48316), (143, 48343), (171, 48451),

Gene: MuchMore_43 Start: 28568, Stop: 28185, Start Num: 78
Candidate Starts for MuchMore_43:
(Start: 58 @28595 has 11 MA's), (Start: 78 @28568 has 123 MA's), (Start: 113 @28523 has 6 MA's),
(154, 28352), (155, 28340),

Gene: Mugiwara_243 Start: 111539, Stop: 111907, Start Num: 108
Candidate Starts for Mugiwara_243:
(84, 111488), (95, 111506), (Start: 102 @111524 has 1 MA's), (Start: 108 @111539 has 25 MA's),
(Start: 125 @111599 has 8 MA's), (126, 111605), (Start: 130 @111623 has 12 MA's), (135, 111644),
(144, 111689), (156, 111743), (158, 111758),

Gene: MulchMansion_220 Start: 108481, Stop: 108786, Start Num: 130
Candidate Starts for MulchMansion_220:
(104, 108388), (Start: 125 @108457 has 8 MA's), (Start: 127 @108469 has 15 MA's), (Start: 130
@108481 has 12 MA's), (137, 108508), (144, 108547), (156, 108601), (158, 108616), (189, 108718),
(217, 108769), (219, 108772),

Gene: Mundrea_35 Start: 27726, Stop: 27247, Start Num: 96
Candidate Starts for Mundrea_35:
(Start: 96 @27726 has 144 MA's), (191, 27366),

Gene: Mysticmoon_66 Start: 47638, Stop: 48009, Start Num: 124
Candidate Starts for Mysticmoon_66:
(48, 47476), (Start: 66 @47500 has 18 MA's), (Start: 71 @47509 has 10 MA's), (Start: 124 @47638
has 1 MA's), (129, 47659), (155, 47776), (163, 47815), (191, 47920), (214, 47965),

Gene: Nabi_35 Start: 26571, Stop: 27047, Start Num: 92
Candidate Starts for Nabi_35:
(19, 26373), (23, 26409), (49, 26505), (Start: 87 @26565 has 28 MA's), (Start: 92 @26571 has 36
MA's), (119, 26649), (Start: 124 @26664 has 1 MA's), (166, 26859), (224, 27015), (231, 27030),

Gene: Naca_33 Start: 27224, Stop: 26715, Start Num: 78
Candidate Starts for Naca_33:

(Start: 78 @27224 has 123 MA's),

Gene: Nadmeg_65 Start: 47342, Stop: 47797, Start Num: 66

Candidate Starts for Nadmeg_65:

(38, 47285), (50, 47321), (Start: 66 @47342 has 18 MA's), (Start: 71 @47351 has 10 MA's), (Start: 124 @47480 has 1 MA's), (143, 47573), (171, 47681), (184, 47732),

Gene: Naji_40 Start: 27983, Stop: 27597, Start Num: 81

Candidate Starts for Naji_40:

(Start: 81 @27983 has 15 MA's), (155, 27752),

Gene: Nanodon_36 Start: 26328, Stop: 26813, Start Num: 87

Candidate Starts for Nanodon_36:

(Start: 87 @26328 has 28 MA's), (119, 26412), (Start: 124 @26427 has 1 MA's), (164, 26616), (170, 26637), (176, 26655), (224, 26781), (231, 26796),

Gene: Navo_211 Start: 106571, Stop: 106873, Start Num: 127

Candidate Starts for Navo_211:

(Start: 125 @106559 has 8 MA's), (Start: 127 @106571 has 15 MA's), (Start: 130 @106583 has 12 MA's), (144, 106649), (152, 106670), (158, 106718), (172, 106745), (177, 106763), (207, 106853),

Gene: NearlyHeadless_32 Start: 26237, Stop: 25725, Start Num: 78

Candidate Starts for NearlyHeadless_32:

(Start: 78 @26237 has 123 MA's), (155, 26006), (199, 25856), (220, 25820),

Gene: Nebs_36 Start: 27798, Stop: 27322, Start Num: 96

Candidate Starts for Nebs_36:

(Start: 96 @27798 has 144 MA's), (Start: 113 @27753 has 6 MA's), (146, 27615), (187, 27450), (193, 27438), (226, 27378), (236, 27366),

Gene: Neeharika16_40 Start: 26609, Stop: 26217, Start Num: 78

Candidate Starts for Neeharika16_40:

(Start: 78 @26609 has 123 MA's), (138, 26462), (148, 26417), (155, 26375), (160, 26348),

Gene: Nemo27_35 Start: 27803, Stop: 27207, Start Num: 96

Candidate Starts for Nemo27_35:

(Start: 96 @27803 has 144 MA's), (191, 27443), (193, 27440), (211, 27404), (243, 27338), (244, 27335), (248, 27290), (249, 27278),

Gene: Newrala_40 Start: 26609, Stop: 26217, Start Num: 78

Candidate Starts for Newrala_40:

(Start: 78 @26609 has 123 MA's), (138, 26462), (148, 26417), (155, 26375), (160, 26348),

Gene: Nirvana_240 Start: 137189, Stop: 137701, Start Num: 87

Candidate Starts for Nirvana_240:

(12, 136931), (20, 137006), (Start: 87 @137189 has 28 MA's), (180, 137531), (185, 137543), (186, 137555), (193, 137573), (210, 137606),

Gene: Nishikigoi_36 Start: 26732, Stop: 27217, Start Num: 87

Candidate Starts for Nishikigoi_36:

(Start: 87 @26732 has 28 MA's), (Start: 113 @26783 has 6 MA's), (119, 26816), (Start: 124 @26831 has 1 MA's), (172, 27047), (224, 27185), (231, 27200),

Gene: Nithya_64 Start: 46208, Stop: 46717, Start Num: 66

Candidate Starts for Nithya_64:

(38, 46151), (Start: 66 @46208 has 18 MA's), (Start: 71 @46217 has 10 MA's), (Start: 124 @46349 has 1 MA's), (140, 46415), (143, 46442), (157, 46505), (171, 46550), (197, 46643), (229, 46703), (233, 46709),

Gene: NoPickles_64 Start: 45739, Stop: 46170, Start Num: 107

Candidate Starts for NoPickles_64:

(Start: 60 @45655 has 10 MA's), (107, 45739), (Start: 110 @45745 has 3 MA's), (Start: 124 @45805 has 1 MA's), (129, 45826), (139, 45862), (143, 45898), (163, 45982), (193, 46090), (219, 46138), (221, 46141), (230, 46162),

Gene: Noella_35 Start: 27813, Stop: 27382, Start Num: 94

Candidate Starts for Noella_35:

(Start: 94 @27813 has 9 MA's), (Start: 96 @27810 has 144 MA's), (Start: 113 @27765 has 6 MA's), (146, 27627), (193, 27450),

Gene: Noelle_35 Start: 27902, Stop: 27306, Start Num: 96

Candidate Starts for Noelle_35:

(21, 28055), (Start: 58 @27932 has 11 MA's), (Start: 96 @27902 has 144 MA's), (193, 27539), (211, 27503), (244, 27434), (248, 27389), (249, 27377),

Gene: NootNoot_214 Start: 107088, Stop: 107390, Start Num: 127

Candidate Starts for NootNoot_214:

(Start: 125 @107076 has 8 MA's), (Start: 127 @107088 has 15 MA's), (Start: 130 @107100 has 12 MA's), (144, 107166), (152, 107187), (158, 107235), (177, 107280), (207, 107370),

Gene: Norbert_34 Start: 27812, Stop: 27381, Start Num: 94

Candidate Starts for Norbert_34:

(Start: 94 @27812 has 9 MA's), (Start: 96 @27809 has 144 MA's), (Start: 113 @27764 has 6 MA's), (146, 27626), (193, 27449),

Gene: NorthStar_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for NorthStar_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: NotAPhaseMom_35 Start: 27808, Stop: 27212, Start Num: 96

Candidate Starts for NotAPhaseMom_35:

(Start: 96 @27808 has 144 MA's), (191, 27448), (193, 27445), (211, 27409), (243, 27343), (244, 27340), (248, 27295), (249, 27283),

Gene: Nyxis_35 Start: 27697, Stop: 27224, Start Num: 96

Candidate Starts for Nyxis_35:

(Start: 96 @27697 has 144 MA's), (187, 27346), (193, 27334), (226, 27274), (236, 27262),

Gene: OKCentral2016_35 Start: 27492, Stop: 26965, Start Num: 96

Candidate Starts for OKCentral2016_35:

(Start: 96 @27492 has 144 MA's), (186, 27147), (191, 27132),

Gene: Obama12_37 Start: 28102, Stop: 27662, Start Num: 96

Candidate Starts for Obama12_37:

(Start: 96 @28102 has 144 MA's), (191, 27742), (193, 27739),

Gene: Odesza_64 Start: 46216, Stop: 46686, Start Num: 86

Candidate Starts for Odesza_64:

(46, 46147), (Start: 60 @46171 has 10 MA's), (Start: 86 @46216 has 4 MA's), (107, 46255), (Start: 110 @46261 has 3 MA's), (Start: 124 @46321 has 1 MA's), (129, 46342), (139, 46378), (143, 46414), (163, 46498), (193, 46606), (199, 46621), (219, 46654), (221, 46657), (230, 46678),

Gene: OhMyWard_63 Start: 47880, Stop: 48323, Start Num: 71

Candidate Starts for OhMyWard_63:

(38, 47814), (Start: 66 @47871 has 18 MA's), (Start: 71 @47880 has 10 MA's), (Start: 124 @48009 has 1 MA's), (140, 48075), (143, 48102), (171, 48210), (185, 48264),

Gene: Ohfah_36 Start: 27798, Stop: 27322, Start Num: 96

Candidate Starts for Ohfah_36:

(Start: 96 @27798 has 144 MA's), (Start: 113 @27753 has 6 MA's), (146, 27615), (187, 27450), (193, 27438), (226, 27378), (236, 27366),

Gene: OlanP_40 Start: 28582, Stop: 28199, Start Num: 78

Candidate Starts for OlanP_40:

(Start: 58 @28609 has 11 MA's), (Start: 78 @28582 has 123 MA's), (Start: 113 @28537 has 6 MA's), (154, 28366), (155, 28354),

Gene: OlgasClover_65 Start: 47388, Stop: 47843, Start Num: 66

Candidate Starts for OlgasClover_65:

(Start: 66 @47388 has 18 MA's), (Start: 71 @47397 has 10 MA's), (Start: 124 @47529 has 1 MA's), (143, 47622), (171, 47730), (184, 47781),

Gene: Olicious_54 Start: 29438, Stop: 29022, Start Num: 99

Candidate Starts for Olicious_54:

(Start: 72 @29480 has 6 MA's), (Start: 99 @29438 has 14 MA's), (Start: 124 @29351 has 1 MA's), (134, 29312), (143, 29261), (149, 29246), (151, 29240),

Gene: Oliynyk_35 Start: 26042, Stop: 26530, Start Num: 77

Candidate Starts for Oliynyk_35:

(31, 25937), (49, 25994), (Start: 77 @26042 has 61 MA's), (112, 26114), (121, 26159), (143, 26261), (177, 26378), (224, 26498), (240, 26525),

Gene: Ollie_41 Start: 28447, Stop: 28064, Start Num: 78

Candidate Starts for Ollie_41:

(Start: 58 @28474 has 11 MA's), (Start: 78 @28447 has 123 MA's), (Start: 113 @28402 has 6 MA's), (154, 28231), (155, 28219),

Gene: Omar_37 Start: 26978, Stop: 27451, Start Num: 92

Candidate Starts for Omar_37:

(Start: 92 @26978 has 36 MA's), (116, 27032), (119, 27056), (121, 27065), (Start: 124 @27071 has 1 MA's), (224, 27419), (231, 27434),

Gene: OneUp_130 Start: 77814, Stop: 78209, Start Num: 93

Candidate Starts for OneUp_130:

(55, 77748), (Start: 93 @77814 has 4 MA's), (Start: 136 @77958 has 1 MA's), (202, 78198),

Gene: Ozzie_34 Start: 25668, Stop: 26156, Start Num: 77

Candidate Starts for Ozzie_34:

(49, 25620), (Start: 77 @25668 has 61 MA's), (112, 25740), (121, 25785), (143, 25887), (177, 26004), (224, 26124), (240, 26151),

Gene: OzzyJ_35 Start: 26047, Stop: 26535, Start Num: 77

Candidate Starts for OzzyJ_35:

(19, 25867), (23, 25903), (49, 25999), (Start: 77 @26047 has 61 MA's), (112, 26119), (119, 26155), (121, 26164), (134, 26212), (176, 26377), (177, 26383), (224, 26503), (240, 26530),

Gene: P28Green_41 Start: 28578, Stop: 28195, Start Num: 78

Candidate Starts for P28Green_41:

(Start: 58 @28605 has 11 MA's), (Start: 78 @28578 has 123 MA's), (Start: 113 @28533 has 6 MA's), (154, 28362), (155, 28350),

Gene: PGHhamlin_43 Start: 28568, Stop: 28185, Start Num: 78

Candidate Starts for PGHhamlin_43:

(Start: 58 @28595 has 11 MA's), (Start: 78 @28568 has 123 MA's), (Start: 113 @28523 has 6 MA's), (154, 28352), (155, 28340),

Gene: PHTowN_71 Start: 50512, Stop: 50156, Start Num: 113

Candidate Starts for PHTowN_71:

(Start: 85 @50572 has 2 MA's), (Start: 110 @50524 has 3 MA's), (Start: 113 @50512 has 6 MA's), (115, 50506), (118, 50491), (119, 50479), (160, 50293), (161, 50290), (178, 50248), (201, 50185), (209, 50173),

Gene: Pablito_34 Start: 26313, Stop: 26771, Start Num: 87

Candidate Starts for Pablito_34:

(Start: 87 @26313 has 28 MA's), (119, 26394), (134, 26451), (176, 26616), (177, 26622), (187, 26673), (224, 26739), (231, 26754),

Gene: PacManQ_213 Start: 107235, Stop: 107525, Start Num: 130

Candidate Starts for PacManQ_213:

(Start: 125 @107211 has 8 MA's), (Start: 127 @107223 has 15 MA's), (Start: 130 @107235 has 12 MA's), (144, 107301), (156, 107355), (158, 107370), (207, 107505),

Gene: Paedore_34 Start: 26900, Stop: 27385, Start Num: 87

Candidate Starts for Paedore_34:

(Start: 87 @26900 has 28 MA's), (119, 26984), (Start: 124 @26999 has 1 MA's), (224, 27353), (231, 27368),

Gene: Palestino_34 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Palestino_34:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Panamaxus_34 Start: 27812, Stop: 27381, Start Num: 94

Candidate Starts for Panamaxus_34:

(Start: 94 @27812 has 9 MA's), (Start: 96 @27809 has 144 MA's), (Start: 113 @27764 has 6 MA's), (146, 27626), (193, 27449),

Gene: Paradiddles_209 Start: 109463, Stop: 109765, Start Num: 127

Candidate Starts for Paradiddles_209:

(Start: 125 @109451 has 8 MA's), (Start: 127 @109463 has 15 MA's), (Start: 130 @109475 has 12 MA's), (144, 109541), (152, 109562), (158, 109610), (177, 109655), (207, 109745),

Gene: Pavo_36 Start: 27721, Stop: 28125, Start Num: 92

Candidate Starts for Pavo_36:

(19, 27526), (51, 27661), (Start: 92 @27721 has 36 MA's), (116, 27775), (121, 27808), (132, 27841), (191, 28102), (194, 28108),

Gene: PeaceMeal1_34 Start: 26665, Stop: 26081, Start Num: 96

Candidate Starts for PeaceMeal1_34:

(16, 26860), (Start: 96 @26665 has 144 MA's), (191, 26305), (200, 26287),

Gene: Peaches_35 Start: 27803, Stop: 27207, Start Num: 96

Candidate Starts for Peaches_35:

(Start: 96 @27803 has 144 MA's), (191, 27443), (193, 27440), (211, 27404), (243, 27338), (244, 27335), (248, 27290), (249, 27278),

Gene: Peebs_214 Start: 108319, Stop: 108609, Start Num: 130

Candidate Starts for Peebs_214:

(Start: 125 @108295 has 8 MA's), (Start: 127 @108307 has 15 MA's), (Start: 130 @108319 has 12 MA's), (144, 108385), (156, 108439), (158, 108454), (207, 108589),

Gene: Pembroke_41 Start: 28577, Stop: 28194, Start Num: 78

Candidate Starts for Pembroke_41:

(Start: 58 @28604 has 11 MA's), (Start: 78 @28577 has 123 MA's), (Start: 113 @28532 has 6 MA's), (154, 28361), (155, 28349),

Gene: Penny1_41 Start: 28576, Stop: 28193, Start Num: 78

Candidate Starts for Penny1_41:

(Start: 58 @28603 has 11 MA's), (Start: 78 @28576 has 123 MA's), (Start: 113 @28531 has 6 MA's), (154, 28360), (155, 28348),

Gene: Pepperwood_217 Start: 108551, Stop: 108841, Start Num: 130

Candidate Starts for Pepperwood_217:

(Start: 125 @108527 has 8 MA's), (Start: 127 @108539 has 15 MA's), (Start: 130 @108551 has 12 MA's), (144, 108617), (156, 108671), (158, 108686), (207, 108821),

Gene: Percastrophe_54 Start: 29372, Stop: 28956, Start Num: 99

Candidate Starts for Percastrophe_54:

(Start: 72 @29414 has 6 MA's), (Start: 99 @29372 has 14 MA's), (Start: 124 @29285 has 1 MA's), (145, 29189), (146, 29186), (149, 29180), (167, 29102),

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

Candidate Starts for Peregrin_191:

(Start: 120 @101143 has 2 MA's), (Start: 127 @101167 has 15 MA's), (147, 101254), (157, 101311), (175, 101356), (183, 101395),

Gene: Perkunas_67 Start: 46556, Stop: 47071, Start Num: 60

Candidate Starts for Perkunas_67:

(10, 46325), (14, 46370), (15, 46373), (17, 46400), (22, 46439), (29, 46475), (30, 46478), (32, 46490), (39, 46508), (Start: 60 @46556 has 10 MA's), (65, 46565), (121, 46700), (123, 46703), (Start: 124 @46706 has 1 MA's), (129, 46727), (139, 46763), (149, 46814), (163, 46883), (221, 47042), (230, 47063),

Gene: Perplexer_35 Start: 27834, Stop: 27259, Start Num: 96

Candidate Starts for Perplexer_35:

(Start: 58 @27864 has 11 MA's), (Start: 96 @27834 has 144 MA's), (193, 27471), (211, 27435), (244, 27366), (248, 27321), (249, 27309),

Gene: Persimmon_220 Start: 107589, Stop: 107891, Start Num: 127

Candidate Starts for Persimmon_220:

(Start: 125 @107577 has 8 MA's), (Start: 127 @107589 has 15 MA's), (Start: 130 @107601 has 12 MA's), (144, 107667), (152, 107688), (158, 107736), (172, 107763), (177, 107781), (207, 107871),

Gene: PeterPeter_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for PeterPeter_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: PetiteSangsue_35 Start: 27837, Stop: 27262, Start Num: 96

Candidate Starts for PetiteSangsue_35:

(Start: 58 @27867 has 11 MA's), (Start: 96 @27837 has 144 MA's), (193, 27474), (211, 27438), (244, 27369), (248, 27324), (249, 27312),

Gene: Petito_67 Start: 47726, Stop: 48241, Start Num: 60

Candidate Starts for Petito_67:

(Start: 60 @47726 has 10 MA's), (65, 47735), (Start: 110 @47816 has 3 MA's), (121, 47870), (123, 47873), (Start: 124 @47876 has 1 MA's), (129, 47897), (139, 47933), (163, 48053), (177, 48098), (219, 48209), (221, 48212), (230, 48233),

Gene: PetterN_34 Start: 26587, Stop: 26075, Start Num: 78

Candidate Starts for PetterN_34:

(Start: 78 @26587 has 123 MA's),

Gene: Phacado_35 Start: 27803, Stop: 27207, Start Num: 96

Candidate Starts for Phacado_35:

(Start: 96 @27803 has 144 MA's), (191, 27443), (193, 27440), (211, 27404), (243, 27338), (244, 27335), (248, 27290), (249, 27278),

Gene: Phantastic_36 Start: 27584, Stop: 27198, Start Num: 78

Candidate Starts for Phantastic_36:

(Start: 78 @27584 has 123 MA's),

Gene: Phelipe_36 Start: 27804, Stop: 27325, Start Num: 96

Candidate Starts for Phelipe_36:

(Start: 96 @27804 has 144 MA's), (187, 27453), (193, 27441), (226, 27381), (236, 27369),

Gene: Phendrix_177 Start: 96622, Stop: 96095, Start Num: 70

Candidate Starts for Phendrix_177:

(Start: 70 @96622 has 2 MA's), (74, 96616), (Start: 110 @96547 has 3 MA's), (128, 96469), (171, 96298), (177, 96277), (193, 96214), (216, 96172), (223, 96160), (242, 96118),

Gene: Phepper_65 Start: 46347, Stop: 46808, Start Num: 66

Candidate Starts for Phepper_65:

(38, 46290), (Start: 66 @46347 has 18 MA's), (Start: 71 @46356 has 10 MA's), (Start: 124 @46488 has 1 MA's), (143, 46581), (157, 46644), (171, 46689),

Gene: Pherobrine_66 Start: 47919, Stop: 48428, Start Num: 66

Candidate Starts for Pherobrine_66:

(42, 47871), (48, 47886), (Start: 66 @47919 has 18 MA's), (Start: 71 @47928 has 10 MA's), (Start: 124 @48057 has 1 MA's), (129, 48078), (155, 48195), (163, 48234), (191, 48339), (214, 48384),

Gene: Phettuccine_34 Start: 25684, Stop: 26172, Start Num: 77

Candidate Starts for Phettuccine_34:

(49, 25636), (Start: 77 @25684 has 61 MA's), (112, 25756), (121, 25801), (143, 25903), (177, 26020), (224, 26140), (240, 26167),

Gene: Phighter1804_35 Start: 27846, Stop: 27250, Start Num: 96

Candidate Starts for Phighter1804_35:

(Start: 96 @27846 has 144 MA's), (191, 27486), (193, 27483), (211, 27447), (243, 27381), (244, 27378), (248, 27333), (249, 27321),

Gene: Phillis_32 Start: 26263, Stop: 25784, Start Num: 78

Candidate Starts for Phillis_32:

(Start: 78 @26263 has 123 MA's), (155, 26032), (199, 25882), (237, 25816), (241, 25804),

Gene: PhinkBoden_144 Start: 79554, Stop: 79946, Start Num: 93

Candidate Starts for PhinkBoden_144:

(Start: 93 @79554 has 4 MA's), (Start: 136 @79695 has 1 MA's), (193, 79917), (202, 79935),

Gene: PhishRPhriends_39 Start: 27579, Stop: 27196, Start Num: 78

Candidate Starts for PhishRPhriends_39:

(11, 27807), (Start: 58 @27606 has 11 MA's), (Start: 78 @27579 has 123 MA's), (Start: 113 @27534 has 6 MA's), (154, 27363), (155, 27351),

Gene: Phlorence_32 Start: 27081, Stop: 26572, Start Num: 77

Candidate Starts for Phlorence_32:

(Start: 77 @27081 has 61 MA's),

Gene: Phoebe_41 Start: 28568, Stop: 28185, Start Num: 78

Candidate Starts for Phoebe_41:

(Start: 58 @28595 has 11 MA's), (Start: 78 @28568 has 123 MA's), (Start: 113 @28523 has 6 MA's), (154, 28352), (155, 28340),

Gene: Phontbonne_35 Start: 27698, Stop: 27225, Start Num: 96

Candidate Starts for Phontbonne_35:

(Start: 96 @27698 has 144 MA's), (187, 27347), (193, 27335), (226, 27275), (236, 27263),

Gene: Phoxy_40 Start: 28571, Stop: 28188, Start Num: 78

Candidate Starts for Phoxy_40:

(Start: 58 @28598 has 11 MA's), (Start: 78 @28571 has 123 MA's), (107, 28544), (Start: 113 @28526 has 6 MA's), (154, 28355), (155, 28343),

Gene: Phranny_41 Start: 28387, Stop: 28004, Start Num: 78

Candidate Starts for Phranny_41:

(11, 28615), (Start: 58 @28414 has 11 MA's), (Start: 78 @28387 has 123 MA's), (Start: 113 @28342 has 6 MA's), (154, 28171), (155, 28159),

Gene: PickleBack_32 Start: 26795, Stop: 26286, Start Num: 77

Candidate Starts for PickleBack_32:

(Start: 77 @26795 has 61 MA's),

Gene: PinkiePie_217 Start: 108231, Stop: 108545, Start Num: 125

Candidate Starts for PinkiePie_217:

(Start: 125 @108231 has 8 MA's), (Start: 127 @108243 has 15 MA's), (Start: 130 @108255 has 12 MA's), (144, 108321), (152, 108342), (158, 108390), (172, 108417), (177, 108435), (207, 108525),

Gene: Pipcraft_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Pipcraft_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Pistachio_37 Start: 27346, Stop: 26960, Start Num: 78

Candidate Starts for Pistachio_37:

(Start: 78 @27346 has 123 MA's), (151, 27148),

Gene: Pocahontas_35 Start: 27806, Stop: 27378, Start Num: 96

Candidate Starts for Pocahontas_35:

(Start: 94 @27809 has 9 MA's), (Start: 96 @27806 has 144 MA's), (Start: 113 @27761 has 6 MA's), (146, 27623), (193, 27446),

Gene: POCO6_076 Start: 59210, Stop: 59797, Start Num: 85

Candidate Starts for POCO6_076:

(Start: 85 @59210 has 2 MA's), (107, 59246), (Start: 110 @59252 has 3 MA's), (Start: 124 @59312 has 1 MA's), (163, 59489), (185, 59567), (191, 59594), (193, 59597), (225, 59660), (243, 59699), (246, 59708),

Gene: Polymorphads_36 Start: 27797, Stop: 27321, Start Num: 96

Candidate Starts for Polymorphads_36:

(Start: 96 @27797 has 144 MA's), (Start: 113 @27752 has 6 MA's), (146, 27614), (187, 27449), (193, 27437), (226, 27377), (236, 27365),

Gene: Pomar16_40 Start: 28024, Stop: 27638, Start Num: 81

Candidate Starts for Pomar16_40:

(Start: 81 @28024 has 15 MA's), (155, 27793),

Gene: Ponzi_9 Start: 7221, Stop: 6748, Start Num: 54

Candidate Starts for Ponzi_9:

(5, 7536), (13, 7422), (Start: 54 @7221 has 1 MA's), (129, 7035), (148, 6957), (169, 6879), (193, 6792),

Gene: Poompha_34 Start: 26663, Stop: 26079, Start Num: 96

Candidate Starts for Poompha_34:

(16, 26858), (Start: 96 @26663 has 144 MA's), (191, 26303), (200, 26285),

Gene: Popcicle_35 Start: 27806, Stop: 27378, Start Num: 96

Candidate Starts for Popcicle_35:

(Start: 94 @27809 has 9 MA's), (Start: 96 @27806 has 144 MA's), (Start: 113 @27761 has 6 MA's), (146, 27623), (193, 27446),

Gene: PotatoSplit_42 Start: 28576, Stop: 28193, Start Num: 78

Candidate Starts for PotatoSplit_42:

(Start: 58 @28603 has 11 MA's), (Start: 78 @28576 has 123 MA's), (Start: 113 @28531 has 6 MA's), (154, 28360), (155, 28348),

Gene: Priamo_41 Start: 26652, Stop: 26263, Start Num: 82
Candidate Starts for Priamo_41:
(Start: 82 @26652 has 14 MA's), (138, 26508), (148, 26463), (155, 26421), (160, 26394),

Gene: Provolone_36 Start: 27103, Stop: 27507, Start Num: 92
Candidate Starts for Provolone_36:
(19, 26908), (51, 27043), (Start: 92 @27103 has 36 MA's), (116, 27157), (121, 27190), (132, 27223),
(191, 27484), (194, 27490),

Gene: Pumbaa_35 Start: 27749, Stop: 27276, Start Num: 96
Candidate Starts for Pumbaa_35:
(Start: 96 @27749 has 144 MA's), (187, 27398), (193, 27386), (226, 27326), (236, 27314),

Gene: PumpkinSpice_234 Start: 109573, Stop: 109941, Start Num: 108
Candidate Starts for PumpkinSpice_234:
(Start: 108 @109573 has 25 MA's), (Start: 125 @109633 has 8 MA's), (Start: 130 @109657 has 12 MA's),
(144, 109723), (152, 109744), (156, 109777), (158, 109792), (207, 109927),

Gene: Puppy_37 Start: 27416, Stop: 27030, Start Num: 78
Candidate Starts for Puppy_37:
(Start: 78 @27416 has 123 MA's), (151, 27218),

Gene: PurpleHaze_40 Start: 28400, Stop: 28017, Start Num: 78
Candidate Starts for PurpleHaze_40:
(11, 28628), (Start: 58 @28427 has 11 MA's), (Start: 78 @28400 has 123 MA's), (Start: 113 @28355 has 6 MA's),
(154, 28184), (155, 28172),

Gene: Quantum_211 Start: 129324, Stop: 129833, Start Num: 87
Candidate Starts for Quantum_211:
(20, 129141), (Start: 87 @129324 has 28 MA's), (141, 129498), (173, 129615), (213, 129732), (245, 129798),
(247, 129828),

Gene: Quaran19_231 Start: 109014, Stop: 109382, Start Num: 108
Candidate Starts for Quaran19_231:
(Start: 108 @109014 has 25 MA's), (Start: 125 @109074 has 8 MA's), (Start: 130 @109098 has 12 MA's),
(144, 109164), (152, 109185), (156, 109218), (158, 109233), (207, 109368),

Gene: QuinnKiro_34 Start: 27812, Stop: 27381, Start Num: 94
Candidate Starts for QuinnKiro_34:
(Start: 94 @27812 has 9 MA's), (Start: 96 @27809 has 144 MA's), (Start: 113 @27764 has 6 MA's),
(146, 27626), (193, 27449),

Gene: R4_35 Start: 27055, Stop: 27540, Start Num: 87
Candidate Starts for R4_35:
(Start: 87 @27055 has 28 MA's), (119, 27139), (Start: 124 @27154 has 1 MA's), (138, 27211), (164, 27343),
(176, 27382), (224, 27508), (231, 27523),

Gene: Rana_35 Start: 26571, Stop: 27047, Start Num: 92
Candidate Starts for Rana_35:
(19, 26373), (23, 26409), (49, 26505), (Start: 87 @26565 has 28 MA's), (Start: 92 @26571 has 36 MA's),
(119, 26649), (Start: 124 @26664 has 1 MA's), (166, 26859), (224, 27015), (231, 27030),

Gene: Reba_41 Start: 28060, Stop: 27677, Start Num: 78
Candidate Starts for Reba_41:
(11, 28288), (Start: 58 @28087 has 11 MA's), (Start: 78 @28060 has 123 MA's), (Start: 113 @28015 has 6 MA's), (154, 27844), (155, 27832),

Gene: Rebeuca_37 Start: 28182, Stop: 27643, Start Num: 72
Candidate Starts for Rebeuca_37:
(Start: 72 @28182 has 6 MA's), (186, 27825), (191, 27810),

Gene: RedBear_35 Start: 26236, Stop: 26655, Start Num: 92
Candidate Starts for RedBear_35:
(Start: 92 @26236 has 36 MA's), (112, 26281), (Start: 113 @26284 has 6 MA's), (121, 26326), (135, 26377), (138, 26386), (143, 26428), (168, 26530),

Gene: Relief_35 Start: 27804, Stop: 27208, Start Num: 96
Candidate Starts for Relief_35:
(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: RemusLoopin_46 Start: 34126, Stop: 34542, Start Num: 87
Candidate Starts for RemusLoopin_46:
(Start: 87 @34126 has 28 MA's), (119, 34216), (Start: 124 @34231 has 1 MA's), (128, 34249),

Gene: ResDef_35 Start: 27812, Stop: 27381, Start Num: 94
Candidate Starts for ResDef_35:
(Start: 94 @27812 has 9 MA's), (Start: 96 @27809 has 144 MA's), (Start: 113 @27764 has 6 MA's), (146, 27626), (193, 27449),

Gene: RhynO_36 Start: 27673, Stop: 27197, Start Num: 80
Candidate Starts for RhynO_36:
(Start: 58 @27709 has 11 MA's), (Start: 80 @27673 has 8 MA's), (Start: 113 @27628 has 6 MA's), (119, 27595), (121, 27586), (123, 27583), (186, 27331), (191, 27316), (199, 27298),

Gene: Rickmore_61 Start: 44723, Stop: 45232, Start Num: 66
Candidate Starts for Rickmore_61:
(Start: 36 @44660 has 1 MA's), (45, 44693), (Start: 66 @44723 has 18 MA's), (Start: 124 @44864 has 1 MA's), (140, 44930), (143, 44957), (157, 45020), (171, 45065), (184, 45116), (197, 45158), (202, 45167), (228, 45218), (231, 45224),

Gene: Rifter_40 Start: 26392, Stop: 26003, Start Num: 78
Candidate Starts for Rifter_40:
(Start: 78 @26392 has 123 MA's), (155, 26161), (160, 26134), (191, 26029),

Gene: Roary_32 Start: 26183, Stop: 25671, Start Num: 78
Candidate Starts for Roary_32:
(Start: 78 @26183 has 123 MA's), (155, 25952), (199, 25802), (220, 25766),

Gene: Rockstar_36 Start: 27560, Stop: 27174, Start Num: 78
Candidate Starts for Rockstar_36:
(Start: 78 @27560 has 123 MA's),

Gene: Roksolana_41 Start: 26646, Stop: 26254, Start Num: 78
Candidate Starts for Roksolana_41:

(Start: 78 @26646 has 123 MA's), (138, 26499), (148, 26454), (155, 26412), (160, 26385),

Gene: Romero_54 Start: 29431, Stop: 29015, Start Num: 99

Candidate Starts for Romero_54:

(Start: 72 @29473 has 6 MA's), (Start: 99 @29431 has 14 MA's), (Start: 124 @29344 has 1 MA's), (134, 29305), (143, 29254), (149, 29239), (151, 29233),

Gene: Romney_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Romney_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Roney_65 Start: 46382, Stop: 46852, Start Num: 86

Candidate Starts for Roney_65:

(46, 46313), (Start: 60 @46337 has 10 MA's), (Start: 86 @46382 has 4 MA's), (107, 46421), (Start: 110 @46427 has 3 MA's), (Start: 124 @46487 has 1 MA's), (129, 46508), (139, 46544), (143, 46580), (163, 46664), (193, 46772), (199, 46787), (219, 46820), (221, 46823), (230, 46844),

Gene: Rooney_71 Start: 50674, Stop: 50294, Start Num: 103

Candidate Starts for Rooney_71:

(Start: 85 @50710 has 2 MA's), (Start: 103 @50674 has 2 MA's), (Start: 110 @50662 has 3 MA's), (Start: 113 @50650 has 6 MA's), (115, 50644), (118, 50629), (121, 50608), (156, 50452), (161, 50428), (177, 50389), (178, 50386), (196, 50332), (201, 50323),

Gene: Roosevelt_35 Start: 27806, Stop: 27210, Start Num: 96

Candidate Starts for Roosevelt_35:

(Start: 96 @27806 has 144 MA's), (191, 27446), (193, 27443), (211, 27407), (243, 27341), (244, 27338), (248, 27293), (249, 27281),

Gene: RosePharie_55 Start: 29769, Stop: 29353, Start Num: 99

Candidate Starts for RosePharie_55:

(Start: 90 @29781 has 6 MA's), (Start: 99 @29769 has 14 MA's), (105, 29748), (Start: 124 @29682 has 1 MA's), (169, 29490),

Gene: Rowa_49 Start: 35076, Stop: 35489, Start Num: 87

Candidate Starts for Rowa_49:

(Start: 87 @35076 has 28 MA's), (121, 35175), (128, 35199), (171, 35373), (191, 35454),

Gene: Rowdy_39 Start: 27581, Stop: 27105, Start Num: 80

Candidate Starts for Rowdy_39:

(Start: 58 @27617 has 11 MA's), (Start: 80 @27581 has 8 MA's), (Start: 113 @27536 has 6 MA's), (119, 27503), (121, 27494), (123, 27491), (186, 27239), (191, 27224), (199, 27206),

Gene: Ruin_35 Start: 27800, Stop: 27204, Start Num: 96

Candidate Starts for Ruin_35:

(Start: 96 @27800 has 144 MA's), (191, 27440), (193, 27437), (211, 27401), (243, 27335), (244, 27332), (248, 27287), (249, 27275),

Gene: Rummer_40 Start: 28571, Stop: 28188, Start Num: 78

Candidate Starts for Rummer_40:

(Start: 58 @28598 has 11 MA's), (Start: 78 @28571 has 123 MA's), (107, 28544), (Start: 113 @28526 has 6 MA's), (154, 28355), (155, 28343),

Gene: Runhaar_64 Start: 46158, Stop: 46613, Start Num: 66

Candidate Starts for Runhaar_64:

(38, 46101), (50, 46137), (Start: 66 @46158 has 18 MA's), (Start: 71 @46167 has 10 MA's), (Start: 124 @46299 has 1 MA's), (140, 46365), (143, 46392), (149, 46407), (171, 46500), (184, 46551),

Gene: Rusticus_35 Start: 26042, Stop: 26530, Start Num: 77

Candidate Starts for Rusticus_35:

(31, 25937), (49, 25994), (Start: 77 @26042 has 61 MA's), (112, 26114), (121, 26159), (143, 26261), (177, 26378), (224, 26498), (240, 26525),

Gene: Sabertooth_35 Start: 27803, Stop: 27207, Start Num: 96

Candidate Starts for Sabertooth_35:

(Start: 96 @27803 has 144 MA's), (191, 27443), (193, 27440), (211, 27404), (243, 27338), (244, 27335), (248, 27290), (249, 27278),

Gene: Sabia_41 Start: 28596, Stop: 28186, Start Num: 58

Candidate Starts for Sabia_41:

(Start: 58 @28596 has 11 MA's), (Start: 78 @28569 has 123 MA's), (Start: 113 @28524 has 6 MA's), (154, 28353), (155, 28341),

Gene: Sabinator_40 Start: 28574, Stop: 28191, Start Num: 78

Candidate Starts for Sabinator_40:

(Start: 58 @28601 has 11 MA's), (Start: 78 @28574 has 123 MA's), (Start: 113 @28529 has 6 MA's), (154, 28358), (155, 28346),

Gene: Saftant_35 Start: 27670, Stop: 28074, Start Num: 92

Candidate Starts for Saftant_35:

(Start: 92 @27670 has 36 MA's), (116, 27724), (121, 27757), (132, 27790), (177, 27991), (191, 28051), (194, 28057),

Gene: SaltySpittoon_231 Start: 108556, Stop: 108924, Start Num: 108

Candidate Starts for SaltySpittoon_231:

(Start: 108 @108556 has 25 MA's), (Start: 125 @108616 has 8 MA's), (Start: 130 @108640 has 12 MA's), (144, 108706), (152, 108727), (156, 108760), (158, 108775), (207, 108910),

Gene: Samisti12_221 Start: 110133, Stop: 110435, Start Num: 127

Candidate Starts for Samisti12_221:

(Start: 125 @110121 has 8 MA's), (Start: 127 @110133 has 15 MA's), (Start: 130 @110145 has 12 MA's), (144, 110211), (156, 110265), (158, 110280), (207, 110415),

Gene: Samora_48 Start: 34458, Stop: 34883, Start Num: 87

Candidate Starts for Samora_48:

(Start: 87 @34458 has 28 MA's), (Start: 96 @34470 has 144 MA's), (119, 34548), (Start: 124 @34563 has 1 MA's), (138, 34617), (193, 34839), (198, 34851), (206, 34863), (212, 34875),

Gene: SarahRose_34 Start: 26055, Stop: 26543, Start Num: 77

Candidate Starts for SarahRose_34:

(Start: 77 @26055 has 61 MA's), (112, 26127), (119, 26163), (121, 26172), (134, 26220), (176, 26385), (177, 26391), (224, 26511), (240, 26538),

Gene: Satis_212 Start: 129667, Stop: 130176, Start Num: 87

Candidate Starts for Satis_212:

(20, 129484), (Start: 87 @129667 has 28 MA's), (141, 129841), (173, 129958), (213, 130075), (245, 130141), (247, 130171),

Gene: SaturnRing_36 Start: 27799, Stop: 27413, Start Num: 78
Candidate Starts for SaturnRing_36:
(Start: 78 @27799 has 123 MA's), (151, 27601),

Gene: Scamp_35 Start: 27806, Stop: 27210, Start Num: 96
Candidate Starts for Scamp_35:
(Start: 96 @27806 has 144 MA's), (191, 27446), (193, 27443), (211, 27407), (243, 27341), (244, 27338), (248, 27293), (249, 27281),

Gene: Scheme_220 Start: 109778, Stop: 110080, Start Num: 127
Candidate Starts for Scheme_220:
(Start: 125 @109766 has 8 MA's), (Start: 127 @109778 has 15 MA's), (Start: 130 @109790 has 12 MA's), (144, 109856), (156, 109910), (158, 109925), (207, 110060),

Gene: Schwartz33_66 Start: 46646, Stop: 47134, Start Num: 66
Candidate Starts for Schwartz33_66:
(63, 46640), (Start: 66 @46646 has 18 MA's), (Start: 110 @46724 has 3 MA's), (Start: 124 @46784 has 1 MA's), (155, 46922), (163, 46961),

Gene: Scorpio_34 Start: 26664, Stop: 26152, Start Num: 78
Candidate Starts for Scorpio_34:
(Start: 78 @26664 has 123 MA's),

Gene: Scout_36 Start: 27106, Stop: 26720, Start Num: 78
Candidate Starts for Scout_36:
(Start: 78 @27106 has 123 MA's), (151, 26908),

Gene: Sebastisaurus_45 Start: 34670, Stop: 34981, Start Num: 124
Candidate Starts for Sebastisaurus_45:
(Start: 87 @34565 has 28 MA's), (119, 34655), (Start: 124 @34670 has 1 MA's),

Gene: Secretariat_64 Start: 45608, Stop: 46093, Start Num: 66
Candidate Starts for Secretariat_64:
(17, 45440), (22, 45479), (26, 45497), (48, 45575), (53, 45584), (Start: 66 @45608 has 18 MA's), (Start: 110 @45683 has 3 MA's), (Start: 124 @45743 has 1 MA's), (139, 45800), (155, 45881), (162, 45917), (163, 45920),

Gene: Severus_34 Start: 26663, Stop: 26079, Start Num: 96
Candidate Starts for Severus_34:
(16, 26858), (Start: 96 @26663 has 144 MA's), (191, 26303), (200, 26285), (221, 26249),

Gene: ShaggyRogers_67 Start: 46127, Stop: 46597, Start Num: 66
Candidate Starts for ShaggyRogers_67:
(Start: 66 @46127 has 18 MA's), (Start: 71 @46136 has 10 MA's), (Start: 124 @46265 has 1 MA's), (143, 46358), (171, 46466), (197, 46559),

Gene: Shaka_35 Start: 27804, Stop: 27208, Start Num: 96
Candidate Starts for Shaka_35:
(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: ShakeNBake_71 Start: 50539, Stop: 50183, Start Num: 113

Candidate Starts for ShakeNBake_71:

(Start: 85 @50599 has 2 MA's), (Start: 110 @50551 has 3 MA's), (Start: 113 @50539 has 6 MA's), (115, 50533), (118, 50518), (119, 50506), (160, 50320), (161, 50317), (178, 50275), (201, 50212), (209, 50200),

Gene: Shapes_39 Start: 27581, Stop: 27105, Start Num: 80

Candidate Starts for Shapes_39:

(Start: 58 @27617 has 11 MA's), (Start: 80 @27581 has 8 MA's), (Start: 113 @27536 has 6 MA's), (119, 27503), (121, 27494), (123, 27491), (186, 27239), (191, 27224), (199, 27206),

Gene: Shawty_45 Start: 33157, Stop: 33510, Start Num: 113

Candidate Starts for Shawty_45:

(67, 33064), (73, 33076), (Start: 85 @33097 has 2 MA's), (Start: 113 @33157 has 6 MA's), (Start: 124 @33205 has 1 MA's), (193, 33481), (206, 33502),

Gene: Sheen_36 Start: 29802, Stop: 29311, Start Num: 80

Candidate Starts for Sheen_36:

(24, 29925), (27, 29916), (52, 29838), (Start: 80 @29802 has 8 MA's), (148, 29616), (160, 29547), (191, 29442), (193, 29439), (199, 29424), (235, 29361), (238, 29358),

Gene: SheldonCooper_37 Start: 28101, Stop: 27661, Start Num: 96

Candidate Starts for SheldonCooper_37:

(Start: 96 @28101 has 144 MA's), (191, 27741), (193, 27738),

Gene: Shygu2_35 Start: 27798, Stop: 27202, Start Num: 96

Candidate Starts for Shygu2_35:

(Start: 96 @27798 has 144 MA's), (191, 27438), (193, 27435), (211, 27399), (243, 27333), (244, 27330), (248, 27285), (249, 27273),

Gene: Sixama_175 Start: 101856, Stop: 101392, Start Num: 110

Candidate Starts for Sixama_175:

(Start: 91 @101895 has 3 MA's), (Start: 110 @101856 has 3 MA's), (161, 101619), (171, 101598), (187, 101526), (189, 101520), (197, 101505), (223, 101457), (240, 101427),

Gene: Skipitt_35 Start: 27801, Stop: 27205, Start Num: 96

Candidate Starts for Skipitt_35:

(Start: 96 @27801 has 144 MA's), (191, 27441), (193, 27438), (211, 27402), (243, 27336), (244, 27333), (248, 27288), (249, 27276),

Gene: SmellyB_40 Start: 26616, Stop: 26224, Start Num: 78

Candidate Starts for SmellyB_40:

(Start: 78 @26616 has 123 MA's), (138, 26469), (148, 26424), (155, 26382), (160, 26355),

Gene: Smoothie_147 Start: 79538, Stop: 79933, Start Num: 93

Candidate Starts for Smoothie_147:

(1, 78968), (2, 79082), (3, 79109), (4, 79139), (9, 79232), (18, 79331), (25, 79382), (28, 79394), (41, 79445), (49, 79466), (Start: 58 @79481 has 11 MA's), (Start: 93 @79538 has 4 MA's), (Start: 136 @79682 has 1 MA's), (193, 79904), (202, 79922),

Gene: Snorlax_34 Start: 26059, Stop: 26547, Start Num: 77

Candidate Starts for Snorlax_34:

(19, 25879), (23, 25915), (49, 26011), (Start: 77 @26059 has 61 MA's), (112, 26131), (119, 26167), (121, 26176), (134, 26224), (176, 26389), (177, 26395), (224, 26515), (240, 26542),

Gene: SoYo_41 Start: 28514, Stop: 28104, Start Num: 58

Candidate Starts for SoYo_41:

(Start: 58 @28514 has 11 MA's), (Start: 78 @28487 has 123 MA's), (Start: 113 @28442 has 6 MA's), (154, 28271), (155, 28259),

Gene: SoilDragon_40 Start: 28021, Stop: 27638, Start Num: 78

Candidate Starts for SoilDragon_40:

(Start: 58 @28048 has 11 MA's), (Start: 78 @28021 has 123 MA's), (Start: 113 @27976 has 6 MA's), (154, 27805), (155, 27793),

Gene: Sollertia_229 Start: 109154, Stop: 109522, Start Num: 108

Candidate Starts for Sollertia_229:

(95, 109121), (Start: 102 @109139 has 1 MA's), (Start: 108 @109154 has 25 MA's), (Start: 125 @109214 has 8 MA's), (Start: 130 @109238 has 12 MA's), (135, 109259), (144, 109304), (156, 109358), (158, 109373),

Gene: Soshari_42 Start: 28570, Stop: 28187, Start Num: 78

Candidate Starts for Soshari_42:

(Start: 58 @28597 has 11 MA's), (Start: 78 @28570 has 123 MA's), (107, 28543), (Start: 113 @28525 has 6 MA's), (154, 28354), (155, 28342),

Gene: South40_34 Start: 26236, Stop: 26655, Start Num: 92

Candidate Starts for South40_34:

(Start: 92 @26236 has 36 MA's), (112, 26281), (Start: 113 @26284 has 6 MA's), (121, 26326), (135, 26377), (138, 26386), (143, 26428), (168, 26530),

Gene: Sparxx_36 Start: 27799, Stop: 27323, Start Num: 96

Candidate Starts for Sparxx_36:

(Start: 96 @27799 has 144 MA's), (Start: 113 @27754 has 6 MA's), (146, 27616), (187, 27451), (193, 27439), (226, 27379), (236, 27367),

Gene: Speedwell_40 Start: 28980, Stop: 29384, Start Num: 92

Candidate Starts for Speedwell_40:

(Start: 92 @28980 has 36 MA's), (116, 29034), (119, 29058), (121, 29067), (135, 29118), (143, 29169), (177, 29301), (191, 29361), (194, 29367),

Gene: Spelly_236 Start: 108485, Stop: 108853, Start Num: 108

Candidate Starts for Spelly_236:

(Start: 108 @108485 has 25 MA's), (Start: 125 @108545 has 8 MA's), (Start: 130 @108569 has 12 MA's), (144, 108635), (152, 108656), (156, 108689), (158, 108704), (207, 108839),

Gene: Spike509_40 Start: 28571, Stop: 28188, Start Num: 78

Candidate Starts for Spike509_40:

(Start: 58 @28598 has 11 MA's), (Start: 78 @28571 has 123 MA's), (107, 28544), (Start: 113 @28526 has 6 MA's), (154, 28355), (155, 28343),

Gene: Spilled_238 Start: 109689, Stop: 110057, Start Num: 108

Candidate Starts for Spilled_238:

(Start: 108 @109689 has 25 MA's), (Start: 125 @109749 has 8 MA's), (Start: 130 @109773 has 12 MA's), (144, 109839), (152, 109860), (156, 109893), (158, 109908), (207, 110043),

Gene: Spino_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Spino_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: SqueakyClean_34 Start: 26829, Stop: 27302, Start Num: 92

Candidate Starts for SqueakyClean_34:

(Start: 92 @26829 has 36 MA's), (Start: 113 @26874 has 6 MA's), (116, 26883), (119, 26907), (121, 26916), (132, 26949), (162, 27099), (224, 27270), (231, 27285),

Gene: Squillium_220 Start: 108257, Stop: 108547, Start Num: 130

Candidate Starts for Squillium_220:

(Start: 125 @108233 has 8 MA's), (Start: 127 @108245 has 15 MA's), (Start: 130 @108257 has 12 MA's), (144, 108323), (152, 108344), (158, 108392), (172, 108419), (177, 108437), (207, 108527),

Gene: Stagni_41 Start: 28578, Stop: 28195, Start Num: 78

Candidate Starts for Stagni_41:

(Start: 58 @28605 has 11 MA's), (Start: 78 @28578 has 123 MA's), (Start: 113 @28533 has 6 MA's), (154, 28362), (155, 28350),

Gene: Stanimal_228 Start: 109526, Stop: 109894, Start Num: 108

Candidate Starts for Stanimal_228:

(95, 109493), (Start: 102 @109511 has 1 MA's), (Start: 108 @109526 has 25 MA's), (Start: 125 @109586 has 8 MA's), (Start: 130 @109610 has 12 MA's), (135, 109631), (144, 109676), (156, 109730), (158, 109745),

Gene: StarPlatinum_238 Start: 111486, Stop: 111854, Start Num: 108

Candidate Starts for StarPlatinum_238:

(95, 111453), (Start: 102 @111471 has 1 MA's), (Start: 108 @111486 has 25 MA's), (Start: 125 @111546 has 8 MA's), (126, 111552), (Start: 130 @111570 has 12 MA's), (144, 111636), (156, 111690), (158, 111705), (207, 111840),

Gene: StarStuff_40 Start: 27986, Stop: 27600, Start Num: 81

Candidate Starts for StarStuff_40:

(Start: 81 @27986 has 15 MA's), (155, 27755),

Gene: Starbow_228 Start: 108529, Stop: 108897, Start Num: 108

Candidate Starts for Starbow_228:

(Start: 108 @108529 has 25 MA's), (Start: 125 @108589 has 8 MA's), (Start: 130 @108613 has 12 MA's), (144, 108679), (152, 108700), (156, 108733), (158, 108748), (207, 108883),

Gene: Stasia_36 Start: 28128, Stop: 27649, Start Num: 80

Candidate Starts for Stasia_36:

(Start: 58 @28158 has 11 MA's), (Start: 80 @28128 has 8 MA's), (191, 27768), (199, 27750),

Gene: StepMih_41 Start: 28569, Stop: 28186, Start Num: 78

Candidate Starts for StepMih_41:

(Start: 58 @28596 has 11 MA's), (Start: 78 @28569 has 123 MA's), (Start: 113 @28524 has 6 MA's), (154, 28353), (155, 28341),

Gene: Stephig9_32 Start: 26211, Stop: 25699, Start Num: 78

Candidate Starts for Stephig9_32:

(Start: 78 @26211 has 123 MA's), (155, 25980), (199, 25830), (220, 25794),

Gene: Stink_36 Start: 28296, Stop: 27874, Start Num: 96

Candidate Starts for Stink_36:

(Start: 96 @28296 has 144 MA's), (Start: 113 @28251 has 6 MA's),

Gene: Success_13 Start: 8706, Stop: 8326, Start Num: 113

Candidate Starts for Success_13:

(50, 8814), (57, 8802), (Start: 113 @8706 has 6 MA's), (131, 8634), (133, 8625), (159, 8496), (182, 8421), (190, 8388), (192, 8385), (220, 8337),

Gene: Sujidade_35 Start: 26794, Stop: 27273, Start Num: 90

Candidate Starts for Sujidade_35:

(Start: 90 @26794 has 6 MA's), (119, 26875), (Start: 124 @26890 has 1 MA's), (166, 27085), (224, 27241), (231, 27256),

Gene: SunsetPointe_34 Start: 25675, Stop: 26163, Start Num: 77

Candidate Starts for SunsetPointe_34:

(49, 25627), (Start: 77 @25675 has 61 MA's), (112, 25747), (121, 25792), (143, 25894), (177, 26011), (224, 26131), (240, 26158),

Gene: SuperAwesome_40 Start: 26609, Stop: 26217, Start Num: 78

Candidate Starts for SuperAwesome_40:

(Start: 78 @26609 has 123 MA's), (138, 26462), (148, 26417), (155, 26375), (160, 26348),

Gene: Superstar_38 Start: 27847, Stop: 28332, Start Num: 87

Candidate Starts for Superstar_38:

(Start: 87 @27847 has 28 MA's), (119, 27931), (Start: 124 @27946 has 1 MA's), (164, 28135), (224, 28300), (231, 28315),

Gene: Sushi23_217 Start: 109173, Stop: 109475, Start Num: 127

Candidate Starts for Sushi23_217:

(Start: 125 @109161 has 8 MA's), (Start: 127 @109173 has 15 MA's), (Start: 130 @109185 has 12 MA's), (144, 109251), (156, 109305), (158, 109320), (207, 109455),

Gene: Swirley_32 Start: 26951, Stop: 26445, Start Num: 83

Candidate Starts for Swirley_32:

(Start: 83 @26951 has 5 MA's),

Gene: SydNat_32 Start: 27230, Stop: 26724, Start Num: 83

Candidate Starts for SydNat_32:

(Start: 83 @27230 has 5 MA's),

Gene: TMaxx_46 Start: 30765, Stop: 30397, Start Num: 121

Candidate Starts for TMaxx_46:

(Start: 87 @30861 has 28 MA's), (107, 30822), (Start: 113 @30804 has 6 MA's), (121, 30765), (179, 30534),

Gene: TNguyen7_36 Start: 27763, Stop: 27377, Start Num: 78

Candidate Starts for TNguyen7_36:

(Start: 78 @27763 has 123 MA's), (151, 27565),

Gene: TagePhighter_36 Start: 26059, Stop: 26547, Start Num: 77

Candidate Starts for TagePhighter_36:

(19, 25879), (23, 25915), (49, 26011), (Start: 77 @26059 has 61 MA's), (112, 26131), (119, 26167), (121, 26176), (134, 26224), (176, 26389), (177, 26395), (224, 26515), (240, 26542),

Gene: Tanis_65 Start: 46157, Stop: 46672, Start Num: 60

Candidate Starts for Tanis_65:

(46, 46133), (Start: 60 @46157 has 10 MA's), (Start: 86 @46202 has 4 MA's), (107, 46241), (Start: 110 @46247 has 3 MA's), (Start: 124 @46307 has 1 MA's), (129, 46328), (139, 46364), (143, 46400), (150, 46418), (163, 46484), (193, 46592), (199, 46607), (219, 46640), (221, 46643), (230, 46664),

Gene: Taquarus_35 Start: 27807, Stop: 27211, Start Num: 96

Candidate Starts for Taquarus_35:

(Start: 96 @27807 has 144 MA's), (191, 27447), (193, 27444), (211, 27408), (243, 27342), (244, 27339), (248, 27294), (249, 27282),

Gene: Targaryen_216 Start: 109330, Stop: 109644, Start Num: 125

Candidate Starts for Targaryen_216:

(Start: 125 @109330 has 8 MA's), (Start: 127 @109342 has 15 MA's), (Start: 130 @109354 has 12 MA's), (144, 109420), (156, 109474), (158, 109489), (207, 109624),

Gene: Tarynearal_31 Start: 26979, Stop: 26470, Start Num: 77

Candidate Starts for Tarynearal_31:

(Start: 77 @26979 has 61 MA's),

Gene: Taurus_41 Start: 28575, Stop: 28192, Start Num: 78

Candidate Starts for Taurus_41:

(Start: 58 @28602 has 11 MA's), (Start: 78 @28575 has 123 MA's), (Start: 113 @28530 has 6 MA's), (154, 28359), (155, 28347),

Gene: Tefunt_36 Start: 26734, Stop: 27219, Start Num: 87

Candidate Starts for Tefunt_36:

(Start: 87 @26734 has 28 MA's), (Start: 113 @26785 has 6 MA's), (119, 26818), (Start: 124 @26833 has 1 MA's), (172, 27049), (224, 27187), (231, 27202),

Gene: TenaciousP_64 Start: 47760, Stop: 48215, Start Num: 66

Candidate Starts for TenaciousP_64:

(Start: 36 @47697 has 1 MA's), (45, 47730), (Start: 66 @47760 has 18 MA's), (Start: 71 @47769 has 10 MA's), (Start: 124 @47901 has 1 MA's), (143, 47994), (171, 48102), (184, 48153),

Gene: Teutsch_216 Start: 108974, Stop: 109264, Start Num: 130

Candidate Starts for Teutsch_216:

(Start: 125 @108950 has 8 MA's), (Start: 127 @108962 has 15 MA's), (Start: 130 @108974 has 12 MA's), (144, 109040), (156, 109094), (158, 109109), (207, 109244),

Gene: Texage_34 Start: 27813, Stop: 27382, Start Num: 94

Candidate Starts for Texage_34:

(Start: 94 @27813 has 9 MA's), (Start: 96 @27810 has 144 MA's), (Start: 113 @27765 has 6 MA's), (146, 27627), (193, 27450),

Gene: Thanksgivukkah_35 Start: 27805, Stop: 27209, Start Num: 96

Candidate Starts for Thanksgivukkah_35:

(Start: 96 @27805 has 144 MA's), (191, 27445), (193, 27442), (211, 27406), (243, 27340), (244, 27337), (248, 27292), (249, 27280),

Gene: Theia_30 Start: 27003, Stop: 26494, Start Num: 77

Candidate Starts for Theia_30:

(Start: 77 @27003 has 61 MA's),

Gene: Thestral_36 Start: 26939, Stop: 27412, Start Num: 92

Candidate Starts for Thestral_36:

(Start: 92 @26939 has 36 MA's), (Start: 113 @26984 has 6 MA's), (116, 26993), (119, 27017), (132, 27059), (143, 27128), (224, 27380), (231, 27395),

Gene: Tiffany_41 Start: 28461, Stop: 28078, Start Num: 78

Candidate Starts for Tiffany_41:

(Start: 58 @28488 has 11 MA's), (Start: 78 @28461 has 123 MA's), (Start: 113 @28416 has 6 MA's), (154, 28245), (155, 28233),

Gene: Tiger_32 Start: 26872, Stop: 26363, Start Num: 77

Candidate Starts for Tiger_32:

(Start: 77 @26872 has 61 MA's),

Gene: Timshel_36 Start: 30226, Stop: 29732, Start Num: 77

Candidate Starts for Timshel_36:

(75, 30229), (Start: 77 @30226 has 61 MA's), (142, 30049), (191, 29863), (193, 29860), (235, 29782), (238, 29779),

Gene: TinaBelcher_35 Start: 26886, Stop: 27359, Start Num: 92

Candidate Starts for TinaBelcher_35:

(Start: 92 @26886 has 36 MA's), (Start: 113 @26931 has 6 MA's), (116, 26940), (119, 26964), (132, 27006), (143, 27075), (224, 27327), (231, 27342),

Gene: TinaFeyge_36 Start: 27799, Stop: 27320, Start Num: 96

Candidate Starts for TinaFeyge_36:

(Start: 96 @27799 has 144 MA's), (187, 27448), (193, 27436), (226, 27376), (236, 27364),

Gene: TiroTheta9_35 Start: 27801, Stop: 27205, Start Num: 96

Candidate Starts for TiroTheta9_35:

(Start: 96 @27801 has 144 MA's), (191, 27441), (193, 27438), (211, 27402), (243, 27336), (244, 27333), (248, 27288), (249, 27276),

Gene: Todacoro_35 Start: 27812, Stop: 27381, Start Num: 94

Candidate Starts for Todacoro_35:

(Start: 94 @27812 has 9 MA's), (Start: 96 @27809 has 144 MA's), (Start: 113 @27764 has 6 MA's), (146, 27626), (193, 27449),

Gene: TomSawyer_235 Start: 111000, Stop: 111368, Start Num: 108

Candidate Starts for TomSawyer_235:

(Start: 108 @111000 has 25 MA's), (Start: 125 @111060 has 8 MA's), (Start: 130 @111084 has 12 MA's), (144, 111150), (152, 111171), (156, 111204), (158, 111219), (207, 111354),

Gene: Toma_34 Start: 26511, Stop: 26990, Start Num: 90

Candidate Starts for Toma_34:

(Start: 90 @26511 has 6 MA's), (119, 26592), (Start: 124 @26607 has 1 MA's), (166, 26802), (224, 26958), (231, 26973),

Gene: Tomas_229 Start: 109990, Stop: 110343, Start Num: 114
Candidate Starts for Tomas_229:
(Start: 114 @109990 has 1 MA's), (Start: 125 @110035 has 8 MA's), (Start: 130 @110059 has 12 MA's), (135, 110080), (144, 110125), (156, 110179), (158, 110194),

Gene: Tomathan_40 Start: 27983, Stop: 27597, Start Num: 81
Candidate Starts for Tomathan_40:
(Start: 81 @27983 has 15 MA's), (155, 27752),

Gene: ToneTone_37 Start: 26318, Stop: 25929, Start Num: 82
Candidate Starts for ToneTone_37:
(Start: 82 @26318 has 14 MA's), (138, 26174), (148, 26129), (155, 26087), (160, 26060),

Gene: Toniann_146 Start: 79300, Stop: 79689, Start Num: 97
Candidate Starts for Toniann_146:
(Start: 97 @79300 has 4 MA's), (Start: 136 @79438 has 1 MA's), (193, 79660), (202, 79678),

Gene: Topanga_36 Start: 28017, Stop: 27481, Start Num: 72
Candidate Starts for Topanga_36:
(Start: 72 @28017 has 6 MA's), (Start: 113 @27960 has 6 MA's), (119, 27927), (121, 27918), (186, 27663), (191, 27648),

Gene: ToriToki_54 Start: 29434, Stop: 29018, Start Num: 99
Candidate Starts for ToriToki_54:
(Start: 72 @29476 has 6 MA's), (Start: 99 @29434 has 14 MA's), (Start: 124 @29347 has 1 MA's), (145, 29251), (146, 29248), (149, 29242), (167, 29164),

Gene: Treat_54 Start: 29375, Stop: 28959, Start Num: 99
Candidate Starts for Treat_54:
(Start: 72 @29417 has 6 MA's), (Start: 99 @29375 has 14 MA's), (Start: 124 @29288 has 1 MA's), (134, 29249), (143, 29198), (149, 29183), (151, 29177),

Gene: Tribute_213 Start: 109127, Stop: 109429, Start Num: 127
Candidate Starts for Tribute_213:
(Start: 125 @109115 has 8 MA's), (Start: 127 @109127 has 15 MA's), (Start: 130 @109139 has 12 MA's), (144, 109205), (156, 109259), (158, 109274), (207, 109409),

Gene: Trike_33 Start: 26496, Stop: 25912, Start Num: 96
Candidate Starts for Trike_33:
(Start: 96 @26496 has 144 MA's), (191, 26136), (200, 26118),

Gene: Triste_34 Start: 26047, Stop: 26535, Start Num: 77
Candidate Starts for Triste_34:
(19, 25867), (23, 25903), (49, 25999), (Start: 77 @26047 has 61 MA's), (112, 26119), (119, 26155), (121, 26164), (134, 26212), (176, 26377), (177, 26383), (224, 26503), (240, 26530),

Gene: Triumph_36 Start: 26636, Stop: 27115, Start Num: 88
Candidate Starts for Triumph_36:
(Start: 64 @26600 has 2 MA's), (Start: 88 @26636 has 1 MA's), (112, 26687), (119, 26723), (121, 26732), (Start: 124 @26738 has 1 MA's), (128, 26756), (224, 27083), (231, 27098),

Gene: TroyPia_36 Start: 27802, Stop: 27323, Start Num: 96
Candidate Starts for TroyPia_36:

(Start: 96 @27802 has 144 MA's), (187, 27451), (193, 27439), (226, 27379), (236, 27367),

Gene: TrvxScott_34 Start: 26932, Stop: 27405, Start Num: 92

Candidate Starts for TrvxScott_34:

(Start: 92 @26932 has 36 MA's), (Start: 113 @26977 has 6 MA's), (116, 26986), (119, 27010), (132, 27052), (143, 27121), (224, 27373), (231, 27388),

Gene: TuanPN_33 Start: 25988, Stop: 26476, Start Num: 77

Candidate Starts for TuanPN_33:

(20, 25820), (47, 25937), (Start: 77 @25988 has 61 MA's), (112, 26060), (119, 26096), (121, 26105), (134, 26153), (176, 26318), (177, 26324), (224, 26444), (240, 26471),

Gene: Tucker_40 Start: 26404, Stop: 26015, Start Num: 82

Candidate Starts for Tucker_40:

(Start: 82 @26404 has 14 MA's), (107, 26377), (138, 26260), (148, 26215), (155, 26173), (160, 26146),

Gene: Twigg_32 Start: 26952, Stop: 26443, Start Num: 77

Candidate Starts for Twigg_32:

(Start: 77 @26952 has 61 MA's),

Gene: Twister_36 Start: 27928, Stop: 27389, Start Num: 72

Candidate Starts for Twister_36:

(Start: 72 @27928 has 6 MA's), (186, 27571), (191, 27556),

Gene: TygerBlood_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for TygerBlood_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Ulysses_34 Start: 27484, Stop: 27011, Start Num: 96

Candidate Starts for Ulysses_34:

(Start: 96 @27484 has 144 MA's), (187, 27133), (193, 27121), (226, 27061), (236, 27049),

Gene: UnionJack_33 Start: 26328, Stop: 25807, Start Num: 69

Candidate Starts for UnionJack_33:

(43, 26370), (Start: 69 @26328 has 1 MA's), (Start: 77 @26316 has 61 MA's),

Gene: Unstoppable_34 Start: 25679, Stop: 26167, Start Num: 77

Candidate Starts for Unstoppable_34:

(49, 25631), (Start: 77 @25679 has 61 MA's), (112, 25751), (121, 25796), (143, 25898), (177, 26015), (224, 26135), (240, 26162),

Gene: Untouchable_66 Start: 47269, Stop: 47808, Start Num: 71

Candidate Starts for Untouchable_66:

(38, 47203), (Start: 66 @47260 has 18 MA's), (Start: 71 @47269 has 10 MA's), (Start: 124 @47401 has 1 MA's), (143, 47494), (157, 47557), (171, 47602), (184, 47653), (214, 47725),

Gene: VA6_37 Start: 28094, Stop: 27678, Start Num: 81

Candidate Starts for VA6_37:

(7, 28382), (Start: 81 @28094 has 15 MA's), (155, 27863), (191, 27731), (203, 27710), (212, 27692),

Gene: VC3_40 Start: 28082, Stop: 27666, Start Num: 81

Candidate Starts for VC3_40:

(7, 28370), (Start: 81 @28082 has 15 MA's), (155, 27851), (191, 27719), (203, 27698), (212, 27680),

Gene: Vanseggelen_40 Start: 27232, Stop: 27636, Start Num: 92

Candidate Starts for Vanseggelen_40:

(19, 27037), (51, 27172), (Start: 92 @27232 has 36 MA's), (Start: 113 @27277 has 6 MA's), (116, 27286), (119, 27310), (121, 27319), (132, 27352), (191, 27613), (194, 27619),

Gene: Vardy_63 Start: 46057, Stop: 46503, Start Num: 71

Candidate Starts for Vardy_63:

(38, 45991), (50, 46027), (Start: 66 @46048 has 18 MA's), (Start: 71 @46057 has 10 MA's), (Start: 124 @46189 has 1 MA's), (140, 46255), (143, 46282), (149, 46297), (171, 46390), (184, 46441),

Gene: Vash_45 Start: 33403, Stop: 33828, Start Num: 87

Candidate Starts for Vash_45:

(Start: 87 @33403 has 28 MA's), (Start: 96 @33415 has 144 MA's), (119, 33493), (Start: 124 @33508 has 1 MA's), (128, 33526), (176, 33715), (193, 33784), (198, 33796), (206, 33808), (212, 33820),

Gene: Verabelle_38 Start: 27616, Stop: 28023, Start Num: 92

Candidate Starts for Verabelle_38:

(19, 27421), (31, 27496), (51, 27556), (Start: 92 @27616 has 36 MA's), (116, 27673), (121, 27706), (135, 27757), (143, 27808), (149, 27823), (177, 27940), (191, 28000), (194, 28006),

Gene: Veracruz_34 Start: 27812, Stop: 27381, Start Num: 94

Candidate Starts for Veracruz_34:

(Start: 94 @27812 has 9 MA's), (Start: 96 @27809 has 144 MA's), (Start: 113 @27764 has 6 MA's), (146, 27626), (193, 27449),

Gene: Verse_35 Start: 28380, Stop: 28784, Start Num: 92

Candidate Starts for Verse_35:

(51, 28317), (Start: 92 @28380 has 36 MA's), (Start: 113 @28425 has 6 MA's), (116, 28434), (119, 28458), (135, 28518), (177, 28701), (191, 28761), (194, 28767),

Gene: Vix_41 Start: 28658, Stop: 28275, Start Num: 78

Candidate Starts for Vix_41:

(Start: 58 @28685 has 11 MA's), (Start: 78 @28658 has 123 MA's), (Start: 113 @28613 has 6 MA's), (154, 28442), (155, 28430),

Gene: VohminGhazi_40 Start: 26617, Stop: 26225, Start Num: 78

Candidate Starts for VohminGhazi_40:

(Start: 78 @26617 has 123 MA's), (138, 26470), (148, 26425), (155, 26383), (160, 26356),

Gene: Vorvolakos_54 Start: 29094, Stop: 28675, Start Num: 99

Candidate Starts for Vorvolakos_54:

(Start: 99 @29094 has 14 MA's), (109, 29067), (119, 29022), (169, 28812),

Gene: WRightOn_58 Start: 29613, Stop: 29197, Start Num: 99

Candidate Starts for WRightOn_58:

(34, 29736), (Start: 88 @29628 has 1 MA's), (Start: 99 @29613 has 14 MA's), (155, 29385),

Gene: WalterMcMickey_36 Start: 27928, Stop: 27389, Start Num: 72

Candidate Starts for WalterMcMickey_36:

(Start: 72 @27928 has 6 MA's), (186, 27571), (191, 27556),

Gene: Wander_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Wander_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Warpy_220 Start: 108239, Stop: 108553, Start Num: 125

Candidate Starts for Warpy_220:

(Start: 125 @108239 has 8 MA's), (Start: 127 @108251 has 15 MA's), (Start: 130 @108263 has 12 MA's), (144, 108329), (156, 108383), (158, 108398), (207, 108533),

Gene: Watermoore_216 Start: 109485, Stop: 109787, Start Num: 127

Candidate Starts for Watermoore_216:

(Start: 125 @109473 has 8 MA's), (Start: 127 @109485 has 15 MA's), (Start: 130 @109497 has 12 MA's), (144, 109563), (156, 109617), (158, 109632), (207, 109767),

Gene: Watson_41 Start: 28595, Stop: 28185, Start Num: 58

Candidate Starts for Watson_41:

(Start: 58 @28595 has 11 MA's), (Start: 78 @28568 has 123 MA's), (Start: 113 @28523 has 6 MA's), (154, 28352), (155, 28340),

Gene: Weasels2_199 Start: 104456, Stop: 104812, Start Num: 117

Candidate Starts for Weasels2_199:

(Start: 117 @104456 has 1 MA's), (Start: 120 @104483 has 2 MA's), (Start: 127 @104507 has 15 MA's), (147, 104594), (183, 104735),

Gene: Wentworth_71 Start: 50670, Stop: 50269, Start Num: 103

Candidate Starts for Wentworth_71:

(Start: 85 @50700 has 2 MA's), (Start: 103 @50670 has 2 MA's), (Start: 110 @50658 has 3 MA's), (Start: 113 @50646 has 6 MA's), (121, 50604), (Start: 124 @50598 has 1 MA's), (156, 50448), (160, 50427), (171, 50397), (177, 50376),

Gene: Werner_34 Start: 26057, Stop: 26545, Start Num: 77

Candidate Starts for Werner_34:

(19, 25877), (23, 25913), (49, 26009), (Start: 77 @26057 has 61 MA's), (112, 26129), (119, 26165), (121, 26174), (134, 26222), (143, 26276), (161, 26351), (176, 26387), (177, 26393), (224, 26513), (240, 26540),

Gene: Whatever_34 Start: 26057, Stop: 26545, Start Num: 77

Candidate Starts for Whatever_34:

(19, 25877), (23, 25913), (49, 26009), (Start: 77 @26057 has 61 MA's), (112, 26129), (119, 26165), (134, 26222), (176, 26387), (177, 26393), (224, 26513), (240, 26540),

Gene: WhereRU_216 Start: 107768, Stop: 108070, Start Num: 127

Candidate Starts for WhereRU_216:

(Start: 125 @107756 has 8 MA's), (Start: 127 @107768 has 15 MA's), (Start: 130 @107780 has 12 MA's), (144, 107846), (152, 107867), (158, 107915), (172, 107942), (177, 107960), (207, 108050),

Gene: Wiks_39 Start: 26386, Stop: 25997, Start Num: 82

Candidate Starts for Wiks_39:

(Start: 82 @26386 has 14 MA's), (138, 26242), (148, 26197), (155, 26155), (160, 26128),

Gene: Wilbur_35 Start: 27804, Stop: 27208, Start Num: 96

Candidate Starts for Wilbur_35:

(Start: 96 @27804 has 144 MA's), (191, 27444), (193, 27441), (211, 27405), (243, 27339), (244, 27336), (248, 27291), (249, 27279),

Gene: Wile_35 Start: 27868, Stop: 27272, Start Num: 96

Candidate Starts for Wile_35:

(Start: 58 @27898 has 11 MA's), (Start: 96 @27868 has 144 MA's), (191, 27508), (193, 27505), (211, 27469), (243, 27403), (244, 27400), (248, 27355), (249, 27343),

Gene: Wilkos_73 Start: 50809, Stop: 50432, Start Num: 113

Candidate Starts for Wilkos_73:

(Start: 85 @50863 has 2 MA's), (Start: 113 @50809 has 6 MA's), (Start: 124 @50761 has 1 MA's), (160, 50590), (171, 50560), (177, 50539), (178, 50536),

Gene: Wipeout_221 Start: 109952, Stop: 110320, Start Num: 108

Candidate Starts for Wipeout_221:

(Start: 108 @109952 has 25 MA's), (Start: 125 @110012 has 8 MA's), (Start: 130 @110036 has 12 MA's), (144, 110102), (152, 110123), (156, 110156), (158, 110171), (207, 110306),

Gene: Wizard007_35 Start: 27809, Stop: 27213, Start Num: 96

Candidate Starts for Wizard007_35:

(Start: 96 @27809 has 144 MA's), (191, 27449), (193, 27446), (211, 27410), (243, 27344), (244, 27341), (248, 27296), (249, 27284),

Gene: Wofford_231 Start: 112242, Stop: 112598, Start Num: 111

Candidate Starts for Wofford_231:

(Start: 60 @112140 has 10 MA's), (65, 112149), (68, 112155), (76, 112170), (Start: 82 @112176 has 14 MA's), (101, 112212), (Start: 102 @112218 has 1 MA's), (Start: 111 @112242 has 1 MA's), (Start: 125 @112290 has 8 MA's), (Start: 130 @112314 has 12 MA's), (135, 112335), (144, 112380), (156, 112434), (158, 112449), (205, 112581),

Gene: Wooldri_43 Start: 28514, Stop: 28104, Start Num: 58

Candidate Starts for Wooldri_43:

(Start: 58 @28514 has 11 MA's), (Start: 78 @28487 has 123 MA's), (Start: 113 @28442 has 6 MA's), (154, 28271), (155, 28259),

Gene: WunderPhul_40 Start: 26384, Stop: 25995, Start Num: 82

Candidate Starts for WunderPhul_40:

(Start: 82 @26384 has 14 MA's), (138, 26240), (148, 26195), (155, 26153), (160, 26126),

Gene: Xena_35 Start: 27834, Stop: 27259, Start Num: 96

Candidate Starts for Xena_35:

(Start: 58 @27864 has 11 MA's), (Start: 96 @27834 has 144 MA's), (193, 27471), (211, 27435), (244, 27366), (248, 27321), (249, 27309),

Gene: Yaboi_233 Start: 109149, Stop: 109457, Start Num: 125

Candidate Starts for Yaboi_233:

(95, 109056), (Start: 102 @109074 has 1 MA's), (Start: 108 @109089 has 25 MA's), (Start: 125 @109149 has 8 MA's), (Start: 130 @109173 has 12 MA's), (135, 109194), (144, 109239), (156, 109293), (158, 109308),

Gene: Yara_67 Start: 49527, Stop: 49126, Start Num: 85

Candidate Starts for Yara_67:

(Start: 85 @49527 has 2 MA's), (119, 49440), (165, 49254), (177, 49221), (209, 49143),

Gene: Yasdnil_34 Start: 26106, Stop: 26594, Start Num: 77

Candidate Starts for Yasdnil_34:

(19, 25926), (49, 26058), (Start: 77 @26106 has 61 MA's), (112, 26178), (119, 26214), (121, 26223), (134, 26271), (176, 26436), (177, 26442), (224, 26562), (240, 26589),

Gene: YoSam321_35 Start: 27801, Stop: 27205, Start Num: 96

Candidate Starts for YoSam321_35:

(Start: 96 @27801 has 144 MA's), (191, 27441), (193, 27438), (211, 27402), (243, 27336), (244, 27333), (248, 27288), (249, 27276),

Gene: Yokurt_40 Start: 26386, Stop: 25997, Start Num: 82

Candidate Starts for Yokurt_40:

(Start: 82 @26386 has 14 MA's), (138, 26242), (148, 26197), (155, 26155), (160, 26128),

Gene: Yosif_37 Start: 28173, Stop: 28583, Start Num: 92

Candidate Starts for Yosif_37:

(Start: 92 @28173 has 36 MA's), (116, 28227), (119, 28251), (177, 28494), (191, 28554), (194, 28560),

Gene: Zainub_37 Start: 27276, Stop: 27749, Start Num: 92

Candidate Starts for Zainub_37:

(Start: 92 @27276 has 36 MA's), (Start: 113 @27321 has 6 MA's), (116, 27330), (119, 27354), (121, 27363), (Start: 124 @27369 has 1 MA's), (143, 27465), (177, 27597), (224, 27717), (231, 27732),

Gene: Zaka_40 Start: 26386, Stop: 25997, Start Num: 82

Candidate Starts for Zaka_40:

(Start: 82 @26386 has 14 MA's), (138, 26242), (148, 26197), (155, 26155), (160, 26128),

Gene: Zeigle_54 Start: 29457, Stop: 29041, Start Num: 99

Candidate Starts for Zeigle_54:

(34, 29580), (Start: 88 @29472 has 1 MA's), (Start: 99 @29457 has 14 MA's), (155, 29229),

Gene: Zemlya_36 Start: 26609, Stop: 27091, Start Num: 87

Candidate Starts for Zemlya_36:

(33, 26504), (49, 26549), (Start: 87 @26609 has 28 MA's), (Start: 92 @26615 has 36 MA's), (119, 26693), (Start: 124 @26708 has 1 MA's), (166, 26903), (193, 27002), (224, 27059), (231, 27074), (240, 27086),

Gene: Zeph_66 Start: 47186, Stop: 47647, Start Num: 66

Candidate Starts for Zeph_66:

(38, 47129), (Start: 66 @47186 has 18 MA's), (Start: 71 @47195 has 10 MA's), (Start: 124 @47327 has 1 MA's), (140, 47393), (143, 47420), (157, 47483), (171, 47528),

Gene: Zetzy_40 Start: 28139, Stop: 27756, Start Num: 78

Candidate Starts for Zetzy_40:

(Start: 58 @28166 has 11 MA's), (Start: 78 @28139 has 123 MA's), (Start: 113 @28094 has 6 MA's), (154, 27923), (155, 27911),

Gene: Zolita_31 Start: 27234, Stop: 26728, Start Num: 83

Candidate Starts for Zolita_31:

(Start: 83 @27234 has 5 MA's),

Gene: ZooBear_54 Start: 29438, Stop: 29022, Start Num: 99

Candidate Starts for ZooBear_54:

(Start: 72 @29480 has 6 MA's), (Start: 99 @29438 has 14 MA's), (Start: 124 @29351 has 1 MA's),
(145, 29255), (146, 29252), (149, 29246), (167, 29168),

Gene: Zulu_40 Start: 26385, Stop: 25996, Start Num: 82

Candidate Starts for Zulu_40:

(Start: 82 @26385 has 14 MA's), (107, 26358), (138, 26241), (148, 26196), (155, 26154), (160,
26127),

Gene: phiBT1_20 Start: 34511, Stop: 34861, Start Num: 113

Candidate Starts for phiBT1_20:

(Start: 113 @34511 has 6 MA's), (121, 34553), (Start: 124 @34559 has 1 MA's), (128, 34577), (138,
34613), (193, 34835),

Gene: phiHau3_36 Start: 26164, Stop: 26676, Start Num: 64

Candidate Starts for phiHau3_36:

(44, 26128), (Start: 64 @26164 has 2 MA's), (Start: 92 @26200 has 36 MA's), (Start: 113 @26245 has
6 MA's), (119, 26278), (121, 26287), (128, 26311), (224, 26644),