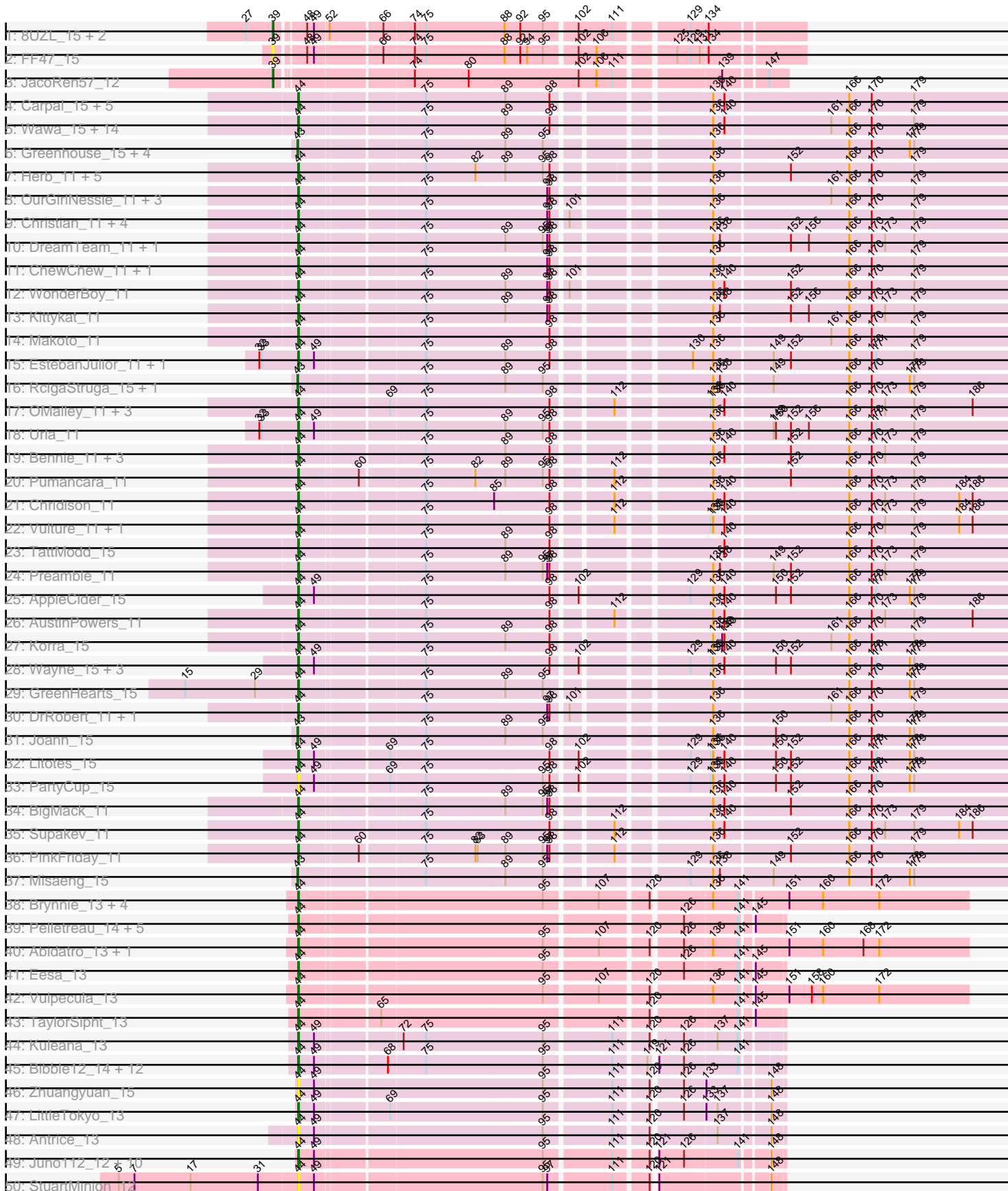
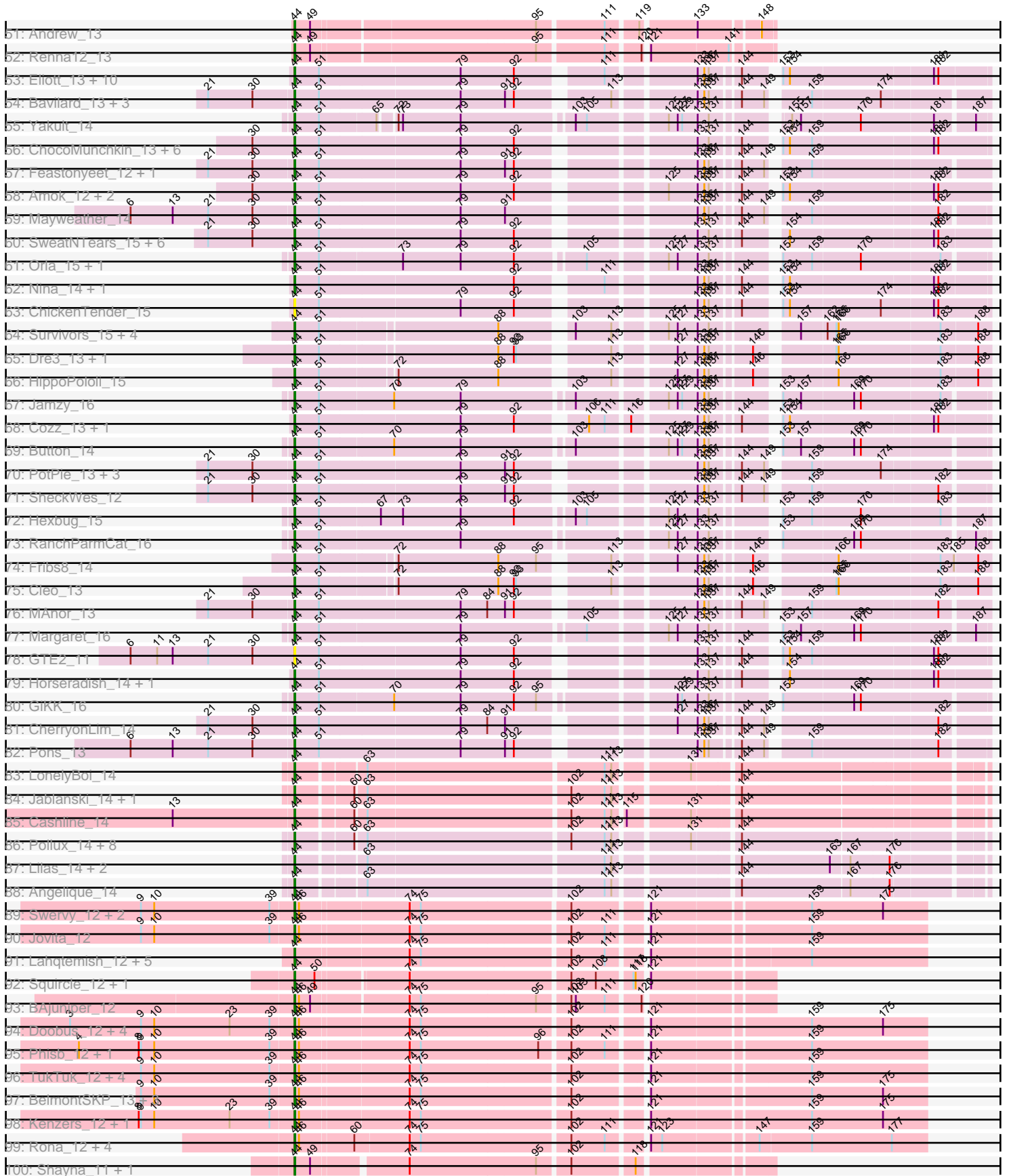


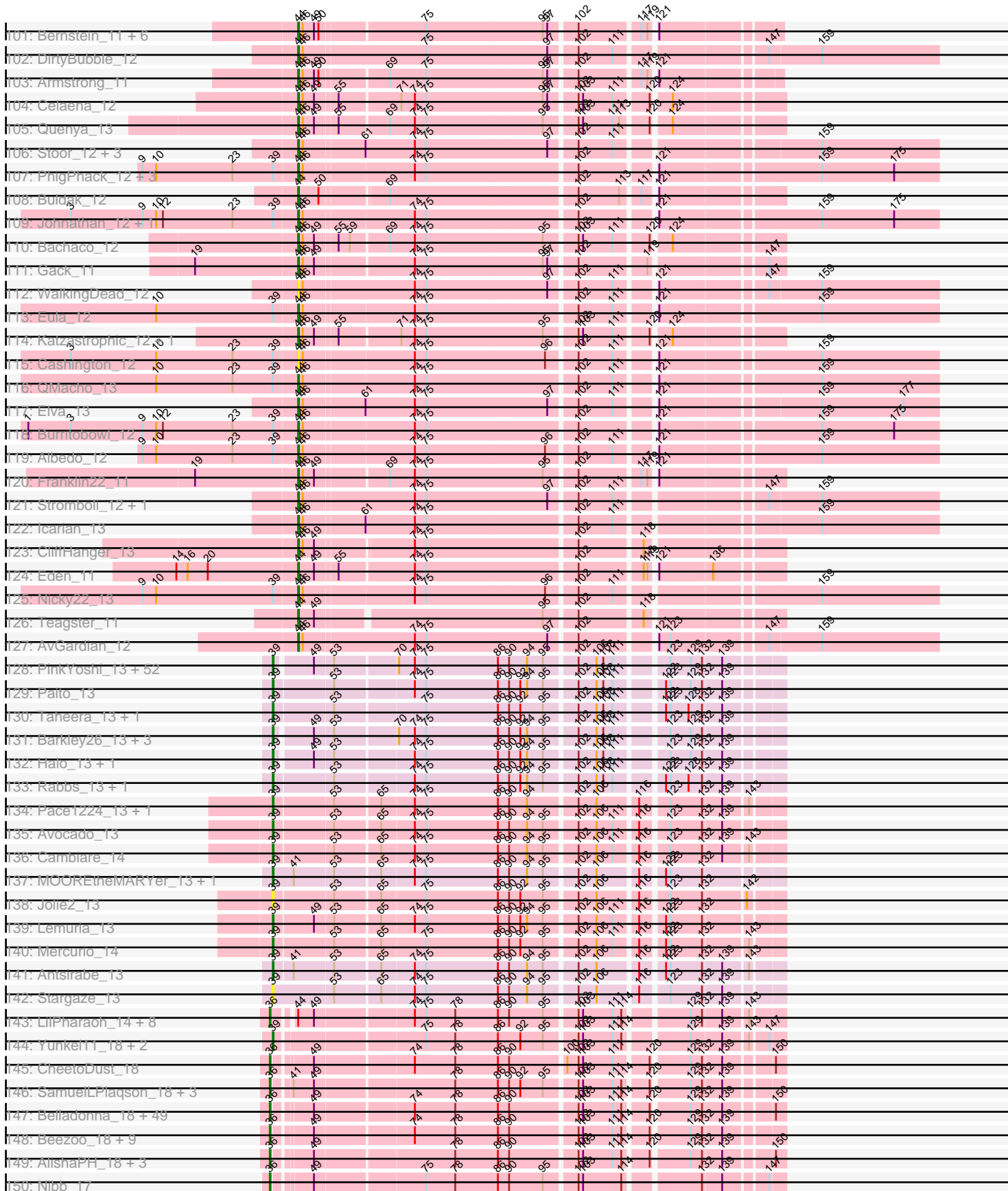
Pham 202550



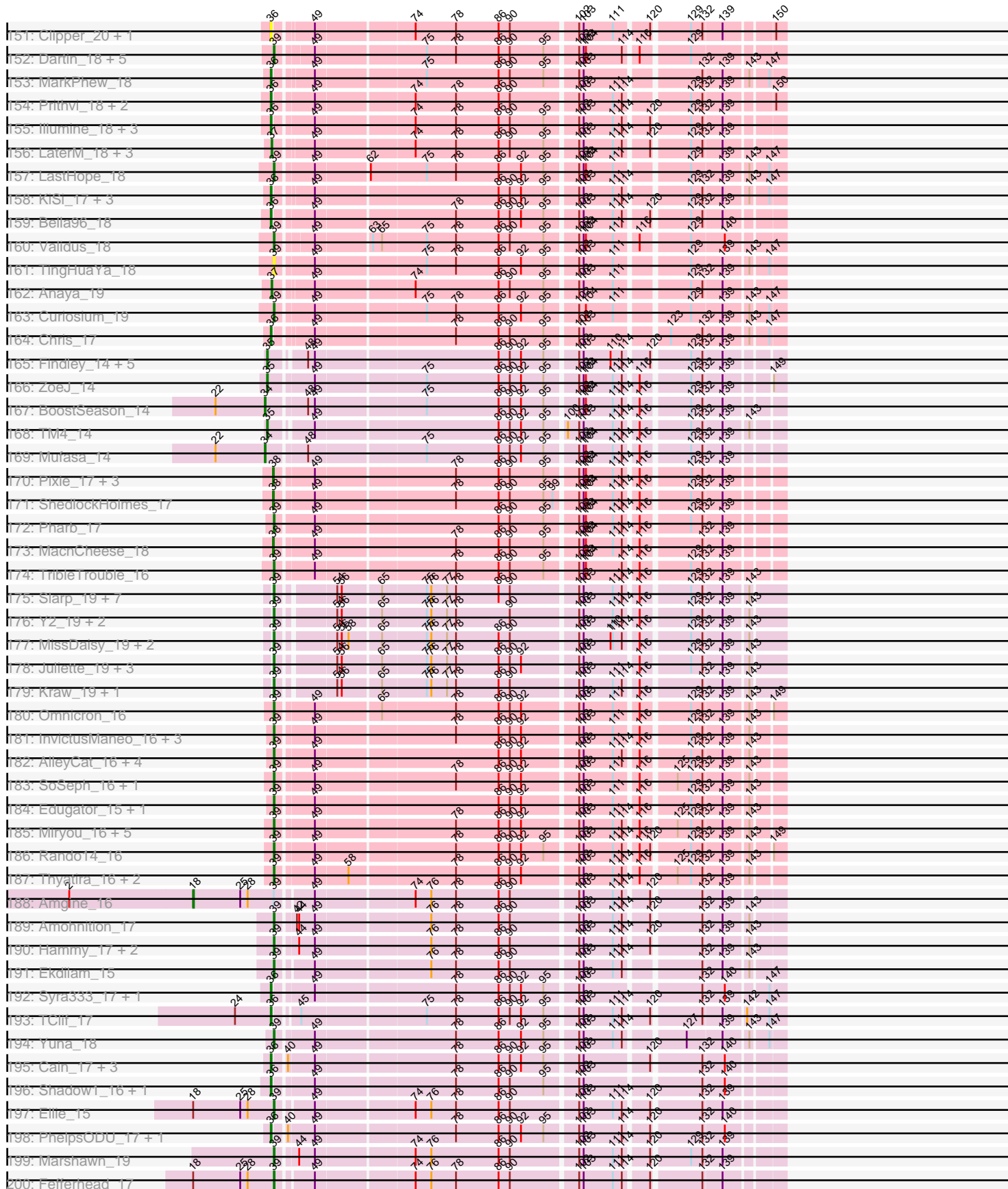
Pham 202550



Pham 202550



Pham 202550



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 202550 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202550 has 581 members, 70 are drafts.

Phages represented in each track:

- Track 1 : 8UZL_15, Maco6_13, Muddy_15
- Track 2 : FF47_15
- Track 3 : JacoRen57_12
- Track 4 : Carpal_15, Fluke_15, MrGloopy_15, Riverdale_15, Scuttle_15, Beethoven_15
- Track 5 : Wawa_15, Glenn_15, Kalizoi_15, Dino_15, Vallejo_15, MeganNoll_15, BrotherBLo_15, Zorro_15, Cholula_15, RAP15_15, Jumboset_15, Rozby_15, Potatoes_15, Immaculata_15, Savage2526_15
- Track 6 : Greenhouse_15, Lakshmi_15, Nubia_15, Oxyntrius_15, Albanese_15
- Track 7 : Herb_11, Daiboju_11, Maria1952_11, Sergei_11, KingBob_11, Temper16_11
- Track 8 : OurGirlNessie_11, PitaDog_11, Lucy_11, Lennox_11
- Track 9 : Christian_11, Lasagna_11, CristinaYang_11, Nancia_11, LilStuart_11
- Track 10 : DreamTeam_11, Gisselle_11
- Track 11 : ChewChew_11, Bodacious_11
- Track 12 : WonderBoy_11
- Track 13 : Kittykat_11
- Track 14 : Makoto_11
- Track 15 : EstebanJulior_11, MamaPearl_11
- Track 16 : RcigaStruga_15, Huntingdon_15
- Track 17 : OMalley_11, Aledel_11, Eunoia_11, Riovina_11
- Track 18 : Urla_11
- Track 19 : Bennie_11, Huckleberry_11, HeadNerd_11, Moki_11
- Track 20 : Pumancara_11
- Track 21 : Chridison_11
- Track 22 : Vulture_11, HunterDalle_11
- Track 23 : TattModd_15
- Track 24 : Preamble_11
- Track 25 : AppleCider_15
- Track 26 : AustinPowers_11
- Track 27 : Korra_15
- Track 28 : Wayne_15, Suppi_15, CallieOMalley_15, Canowicakte_15
- Track 29 : GreenHearts_15
- Track 30 : DrRobert_11, Pterodactyl_11
- Track 31 : Joann_15
- Track 32 : Litotes_15
- Track 33 : PartyCup_15

- Track 34 : BigMack_11
- Track 35 : Supakev_11
- Track 36 : PinkFriday_11
- Track 37 : Misaeng_15
- Track 38 : Brynnie_13, Chickaboom_12, Ruchi_13, Jamun_13, Basilisk_13
- Track 39 : Pelletreau_14, Toad24_14, Orcanus_13, KendraB23_14, Westrich_14, Gravel_14
- Track 40 : Abidatro_13, Galaxy_13
- Track 41 : Eesa_13
- Track 42 : Vulpecula_13
- Track 43 : TaylorSipht_13
- Track 44 : Kuleana_13
- Track 45 : Bible12_14, Jerole_14, Polka_13, Daob_14, Coral_13, Colusalem_13, HannahPhantana_14, Melons_14, Bedetta_14, Kepler_13, Amelia_14, Cote_14, Lunar_14
- Track 46 : Zhuangyuan_15
- Track 47 : LittleTokyo_13
- Track 48 : Antrice_13
- Track 49 : Juno112_12, HamCheese_12, Glotell_12, PhluffyCoco_12, Atlantica_12, RedFox_12, Rattail_12, Leona_12, AmiCi24_12, Camara_12, KHumphrey_12
- Track 50 : StuartMinion_12
- Track 51 : Andrew_13
- Track 52 : Renna12_13
- Track 53 : Elliott_13, Starburst_14, RedBaron_14, Burnsey_13, Agatha_13, PsychoKiller_13, Typhonmarchy_14, Carsonalex_14, GoldHunter_14, MunkgeeRoachy_13, Sopespian_13
- Track 54 : Bavidard_13, Yucky_15, KayGee_13, Elinal_14
- Track 55 : Yakult_14
- Track 56 : ChocoMunchkin_13, Tolls_15, CanesSauce_13, AndPeggy_12, SteamedHams_15, Yarn_12, BillDoor_15
- Track 57 : Feastonyeet_12, BigChungus_12
- Track 58 : Amok_12, AikoCarson_12, Emalyn_12
- Track 59 : Mayweather_14
- Track 60 : SweatNTears_15, MScarn_15, SketchMex_12, Troje_13, Blondies_13, Biskit_14, Buttrmlkdreams_13
- Track 61 : Orla_15, Nodigi_15
- Track 62 : Nina_14, Quasar_13
- Track 63 : ChickenTender_15
- Track 64 : Survivors_15, MaVan_15, Zareef_17, Azira_15, Nibbles_15
- Track 65 : Dre3_13, Gibbous_13
- Track 66 : HippoPololi_15
- Track 67 : Jamzy_16
- Track 68 : Cozz_13, Axym_13
- Track 69 : Button_14
- Track 70 : PotPie_13, Lauer_12, Vine_14, SummitAcademy_12
- Track 71 : SheckWes_12
- Track 72 : Hexbug_15
- Track 73 : RanchParmCat_16
- Track 74 : Fribs8_14
- Track 75 : Cleo_13
- Track 76 : MAnor_13
- Track 77 : Margaret_16
- Track 78 : GTE2_11

- Track 79 : Horseradish_14, Yummy_14
- Track 80 : GiKK_16
- Track 81 : CherryonLim_14
- Track 82 : Pons_13
- Track 83 : LonelyBoi_14
- Track 84 : Jablanski_14, Pytheas_14
- Track 85 : Cashline_14
- Track 86 : Pollux_14, BritBrat_14, EMSquaredA_14, Posh_14, BeeGee_14, Wrigley_14, Floral_14, Confidence_14, Marteena_14
- Track 87 : Lilas_14, EnalisNailo_14, Bradissa_14
- Track 88 : Angelique_14
- Track 89 : Swervy_12, Slay_12, SarBear_12
- Track 90 : Jovita_12
- Track 91 : Lahqtemish_12, Didgeridoo_13, IndyLu_12, PastaFagioli_12, BabyDaisy_13, Kate33_12
- Track 92 : Squircl_12, Olliecat_12
- Track 93 : BAjuniper_12
- Track 94 : Doobus_12, Albright_12, LimaBean_12, Abigail_12, Avacadoman_12
- Track 95 : Phisb_12, BubbaBear_12
- Track 96 : TukTuk_12, CupcakePrincess_12, Jabb_12, MsUbiquitous_12, Finalfrontier_13
- Track 97 : BelmontSKP_13, CroZenni_12, DickRichards_12, AnnaLie_13
- Track 98 : Kenzers_12, Lynlen_12
- Track 99 : Rona_12, Sharkboy_12, Kieran_12, ChiliPepper_12, Dismas_12
- Track 100 : Shayna_11, SunnyD_11
- Track 101 : Bernstein_11, Coltrane_11, Clayda5_11, Rollins_11, Vitas_11, Skylord_11, Brahms_11
- Track 102 : DirtyBubble_12
- Track 103 : Armstrong_11
- Track 104 : Celaena_12
- Track 105 : Quenya_13
- Track 106 : Stoor_12, Akino08_20, SanaSana_13, Loviatar_20
- Track 107 : PhigPhack_12, Softsoap_12, Arroyo_13, SansAfet_12
- Track 108 : Buldak_12
- Track 109 : Johnathan_12, Bengal_12
- Track 110 : Bachaco_12
- Track 111 : Gack_11
- Track 112 : WalkingDead_12
- Track 113 : Eula_12
- Track 114 : Katzastrophic_12, FlameThrower_12
- Track 115 : Cashington_12
- Track 116 : QMacho_13
- Track 117 : Elva_13
- Track 118 : Burritobowl_12
- Track 119 : Albedo_12
- Track 120 : Franklin22_11
- Track 121 : Stromboli_12, BabyYoda_12
- Track 122 : Icarian_13
- Track 123 : CliffHanger_13
- Track 124 : Eden_11
- Track 125 : Nicky22_13
- Track 126 : Teagster_11
- Track 127 : AvGardian_12

- Track 128 : PinkYoshi_13, Jolene_13, CassieYates_13, Angel_13, TomBrady_13, ECartman_13, OctaviousRex_13, Gomashi_13, Periodt_13, Schiebel_13, Hope_13, Hotshotbaby7_13, Marmie_13, Cedasite_13, Renaissance_13, Gideon_13, AzulaCat_13, BPs_13, ZoMa_13, LouisV14_13, BQuat_13, Coleslaw_13, DMoney_13, Avrafan_13, DNAll_0013, Maliketh_13, Plagueis_13, Aroostook_13, Mowgli_13, Kareem_13, Chance64_13, BruceB_13, Crespo_13, Darionha_13, Frosty24_13, CLED96_13, Remy19_13, Sweets_13, Kasen3_13, Olga_13, Zombie_13, Camri_13, Cherrybomb426_13, Annihilator_13, Phreak_13, ShaboiShabazz_13, JorRay_13, Jane_13, Wendigo_13, GoldenAsh_13, Jonghyun_13, Phish_13, Sizemore_13
- Track 129 : Paito_13
- Track 130 : Taheera_13, Terror_13
- Track 131 : Barkley26_13, Peeb_13, Liefie_13, Grizzly_13
- Track 132 : Halo_13, TinaBug_13
- Track 133 : Rabbs_13, Sneeze_13
- Track 134 : Pace1224_13, FlagStaff_13
- Track 135 : Avocado_13
- Track 136 : Cambiare_14
- Track 137 : MOOREtheMARYer_13, Pinnie_14
- Track 138 : Jolie2_13
- Track 139 : Lemuria_13
- Track 140 : Mercurio_14
- Track 141 : Antsirabe_13
- Track 142 : Stargaze_13
- Track 143 : LilPharaoh_14, Nutello_14, SgtBeansprout_14, Enkosi_14, Amelie_14, Binglebops_14, Mdavu_14, Torres_14, Nikao_14
- Track 144 : Yunkel11_18, Efra2_18, Guanica15_18
- Track 145 : CheetoDust_18
- Track 146 : SamuelLPlaqson_18, Urkel_18, TiniBug_18, DrHayes_18
- Track 147 : Belladonna_18, Angelica_18, Rosmarinus_18, Peel_18, CREW_18, Ramen_18, Inky_18, BaghaKamala_18, Zavala_18, Capricorn_18, Lunahalos_18, Adephegia_18, CrimD_18, Deby_18, Durfee_18, Mynx_18, YoureAdopted_17, Rapunzel97_18, Jarvi_18, BGlluviae_18, Piatt_18, Megsy_18, Boiii_18, Hyperbowlee_18, Zabiza_18, Twitch_18, Slimphazie_18, Spock_18, Llorens_18, Jayhawk_18, BarrelRoll_18, CaseJules_18, Asayake_18, Apocalypse_18, Topper_18, ActinUp_18, Joy99_18, JAWS_18, Blizzard_18, BEEST_18, HedwigODU_18, Homura_18, TaiwanKao_19, MeaningOfLife_18, ShiaSurprise_18, Sulley_18, TruffulaTree_18, Dalmuri_18, Padfoot_18, Jeckyll_18
- Track 148 : Beezoo_18, Atiba_18, CallaLilly_19, Tachez_18, Geraldini_18, Pokerus_17, Ganymede_19, QuincyRose_17, Tiri_18, Adonis_18
- Track 149 : AlishaPH_18, Emerson_18, Padpat_18, Veliki_18
- Track 150 : Nibb_17
- Track 151 : Clipper_20, MacKat_19
- Track 152 : Dartin_18, Peanam_18, Shaobing_18, McMater_18, Niklas_18, Richo_18
- Track 153 : MarkPhew_18
- Track 154 : Prithvi_18, TreyKay_18, LindNT_18
- Track 155 : Illumine_18, Devera_18, Dole_18, Bern_20
- Track 156 : LaterM_18, Stinson_18, Murucutumbu_18, Ageofdapage_18
- Track 157 : LastHope_18
- Track 158 : KiSi_17, Oscar_17, LeMond_17, Scarlett_17
- Track 159 : Bella96_18
- Track 160 : Validus_18

- Track 161 : TingHuaYa_18
- Track 162 : Anaya_19
- Track 163 : Curiosium_19
- Track 164 : Chris_17
- Track 165 : Findley_14, Milly_14, DismalFunk_14, Strobilo_14, DismalStressor_14, Marcoliusprime_14
- Track 166 : ZoeJ_14
- Track 167 : BoostSeason_14
- Track 168 : TM4_14
- Track 169 : Mufasa_14
- Track 170 : Pixie_17, Keshu_17, TBond007_17, Hurricane_17
- Track 171 : ShedlockHolmes_17
- Track 172 : Pharb_17
- Track 173 : MacnCheese_18
- Track 174 : TripleTrouble_16
- Track 175 : Slarp_19, OmniCritical_19, Fionnbharth_19, Wintermute_19, Mitti_19, Cheetobro_19, Chancellor_19, SamScheppers_17
- Track 176 : Y2_19, Y10_19, JF1_19
- Track 177 : MissDaisy_19, Reptar3000_19, Patt_19
- Track 178 : Juliette_19, Taquito_17, Eponine_19, Ruthiejr_18
- Track 179 : Kraw_19, Malthus_19
- Track 180 : Omnicron_16
- Track 181 : InvictusManeo_16, ViviJ_15, Agent47_16, Collard_16
- Track 182 : AlleyCat_16, Larva_16, Neighly_16, Psycho_16, Dadosky_16
- Track 183 : SoSeph_16, Heftyboy_16
- Track 184 : Edugator_15, Kratio_15
- Track 185 : Miryou_16, Guillsminger_16, Leston_16, Paola_16, OkiRoe_16, Gengar_16
- Track 186 : Rando14_16
- Track 187 : Thyatira_16, Feyre_16, Waterfoul_16
- Track 188 : Amgine_16
- Track 189 : Amohnition_17
- Track 190 : Hammy_17, November_16, DarthP_17
- Track 191 : Ekdilam_15
- Track 192 : Syra333_17, Krueger_17
- Track 193 : TClif_17
- Track 194 : Yuna_18
- Track 195 : Cain_17, Tierra_17, Phrank_17, Bryler_17
- Track 196 : Shadow1_16, Sunflower1121_16
- Track 197 : Ellie_15
- Track 198 : PhelpsODU_17, Unicorn_17
- Track 199 : Marshawn_19
- Track 200 : Fefferhead_17
- Track 201 : Ximenita_18
- Track 202 : SirPhilip_17
- Track 203 : Aminay_16
- Track 204 : Boilgate_15
- Track 205 : Juicebox_14
- Track 206 : LilSpotty_12
- Track 207 : Sleepyhead_13

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

The start number called the most often in the published annotations is 44, it was called in 243 of the 511 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_13, Abigail_12, Agatha_13, AikoCarson_12, Akino08_20, Albedo_12, Albright_12, Aledel_11, Amelia_14, AmiCi24_12, Amok_12, AndPeggy_12, Andrew_13, Angelique_14, AnnaLie_13, Antrice_13, AppleCider_15, Armstrong_11, Arroyo_13, Atlantica_12, AustinPowers_11, AvGardian_12, Avocadoman_12, Axym_13, Azira_15, BAjuniper_12, BabyDaisy_13, BabyYoda_12, Bachaco_12, Basilisk_13, Bavidard_13, Bedetta_14, BeeGee_14, Beethoven_15, BelmontSKP_13, Bengal_12, Bennie_11, Bernstein_11, Bibble12_14, BigChungus_12, BigMack_11, BillDoor_15, Biskit_14, Blondies_13, Bodacious_11, Bradissa_14, Brahms_11, BritBrat_14, BrotherBLo_15, Brynnie_13, BubbaBear_12, Buldak_12, Burnsey_13, Burritobowl_12, Button_14, Buttrmlkdreams_13, CallieOMalley_15, Camara_12, CanesSauce_13, Canowicakte_15, Carpal_15, Carsonalex_14, Cashington_12, Cashline_14, Celaena_12, CherryonLim_14, ChewChew_11, Chickaboom_12, ChickenTender_15, ChiliPepper_12, ChocoMunchkin_13, Cholula_15, Chridison_11, Christian_11, Clayda5_11, Cleo_13, CliffHanger_13, Coltrane_11, Colusalem_13, Confidence_14, Coral_13, Cote_14, Cozz_13, CristinaYang_11, CroZenni_12, CupcakePrincess_12, Daiboju_11, Daob_14, DickRichards_12, Didgeridoo_13, Dino_15, DirtyBubble_12, Dismas_12, Doobus_12, DrRobert_11, Dre3_13, DreamTeam_11, EMSquaredA_14, Eden_11, Eesa_13, Elinal_14, Elliott_13, Elva_13, Emalyn_12, EnalisNailo_14, EstebanJulior_11, Eula_12, Eunoia_11, Feastonyeet_12, Finalfrontier_13, FlameThrower_12, Floral_14, Fluke_15, Franklin22_11, Fribs8_14, GTE2_11, Gack_11, Galaxy_13, GiKK_16, Gibbous_13, Gisselle_11, Glenn_15, Glotell_12, GoldHunter_14, Gravel_14, GreenHearts_15, HamCheese_12, HannahPhantana_14, HeadNerd_11, Herb_11, Hexbug_15, HippoPololi_15, Horseradish_14, Huckleberry_11, HunterDalle_11, Icarian_13, Immaculata_15, IndyLu_12, Jabb_12, Jablanski_14, Jamun_13, Jamzy_16, Jerole_14, Johnathan_12, Jovita_12, Jumboset_15, Juno112_12, KHumphrey_12, Kalizoi_15, Kate33_12, Katzastrophic_12, KayGee_13, KendraB23_14, Kenzers_12, Kepler_13, Kieran_12, KingBob_11, Kittykat_11, Korra_15, Kuleana_13, Lahqtemish_12, Lasagna_11, Lauer_12, Lennox_11, Leona_12, LilStuart_11, Lilas_14, LimaBean_12, Litotes_15, LittleTokyo_13, LonelyBoi_14, Loviatar_20, Lucy_11, Lunar_14, Lynlen_12, MAnor_13, MScarn_15, MaVan_15, Makoto_11, MamaPearl_11, Margaret_16, Maria1952_11, Marteena_14, Mayweather_14, MeganNoll_15, Melons_14, Moki_11, MrGloopy_15, MsUbiquitous_12, MunkgeeRoachy_13, Nancia_11, Nibbles_15, Nicky22_13, Nina_14, Nodigi_15, OMalley_11, Olliecat_12, Orcanus_13, Orla_15, OurGirlNessie_11, PartyCup_15, PastaFagioli_12, Pelletreau_14, PhigPhack_12, Phisb_12, PhluffyCoco_12, PinkFriday_11, PitaDog_11, Polka_13, Pollux_14, Pons_13, Posh_14, PotPie_13, Potatoes_15, Preamble_11, PsychoKiller_13, Pterodactyl_11, Pumancara_11, Pytheas_14, QMacho_13, Quasar_13, Quenya_13, RAP15_15, RanchParmCat_16, Rattail_12, RedBaron_14, RedFox_12, Renna12_13, Riovina_11, Riverdale_15, Rollins_11, Rona_12, Rozby_15, Ruchi_13, SanaSana_13, SansAfet_12, SarBear_12, Savage2526_15, Scuttle_15, Sergei_11, Sharkboy_12, Shayna_11, SheckWes_12, SketchMex_12, Skylord_11, Slay_12, Sleepyhead_13, Softsoap_12, Sopespian_13, Squircle_12, Starburst_14, SteamedHams_15, Stoor_12, Stromboli_12, StuartMinion_12, SummitAcademy_12, SunnyD_11, Supakev_11, Suppi_15, Survivors_15, SweatNTears_15, Swervy_12, TattModd_15,

TaylorSipht_13, Teagster_11, Temper16_11, Toad24_14, Tolls_15, Troje_13, TukTuk_12, Typhonmarchy_14, Urla_11, Vallejo_15, Vine_14, Vitas_11, Vulpecula_13, Vulture_11, WalkingDead_12, Wawa_15, Wayne_15, Westrich_14, WonderBoy_11, Wrigley_14, Yakult_14, Yarn_12, Yucky_15, Yummy_14, Zareef_17, Zhuangyuan_15, Zorro_15,

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

- Amelie_14, Amohndition_17, Binglebops_14, DarthP_17, Enkosi_14, Hammy_17, LilPharaoh_14, Marshawn_19, Mdavu_14, Nikao_14, November_16, Nutello_14, SgtBeansprout_14, Torres_14,

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

- 8UZL_15, ActinUp_18, Adephagia_18, Adonis_18, Agent47_16, Ageofdapage_18, Albanese_15, AlishaPH_18, AlleyCat_16, Amgine_16, Aminay_16, Anaya_19, Angel_13, Angelica_18, Annihilator_13, Antsirabe_13, Apocalypse_18, Aroostook_13, Asayake_18, Atiba_18, Avocado_13, Avrafan_13, AzulaCat_13, BEEST_18, BGIlluviae_18, BPs_13, BQuat_13, BaghaKamala_18, Barkley26_13, BarrelRoll_18, Beezoo_18, Bella96_18, Belladonna_18, Bern_20, Blizzard_18, Boiiii_18, Boilgate_15, BoostSeason_14, BruceB_13, Bryler_17, CLED96_13, CREW_18, Cain_17, CallaLilly_19, Cambiare_14, Camri_13, Capricorn_18, CaseJules_18, CassieYates_13, Cedasite_13, Chance64_13, Chancellor_19, CheetoDust_18, Cheetobro_19, Cherrybomb426_13, Chris_17, Clipper_20, Coleslaw_13, Collard_16, Crespo_13, CrimD_18, Curiosium_19, DMoney_13, DNAIII_0013, Dadosky_16, Dalmuri_18, Darionha_13, Dartin_18, Deby_18, Devera_18, DismalFunk_14, DismalStressor_14, Dole_18, DrHayes_18, Durfee_18, ECartman_13, Edugator_15, Efra2_18, Ekdilam_15, Ellie_15, Emerson_18, Eponine_19, FF47_15, Fefferhead_17, Feyre_16, Findley_14, Fionnbharth_19, FlagStaff_13, Frosty24_13, Ganymede_19, Gengar_16, Geraldini_18, Gideon_13, GoldenAsh_13, Gomashi_13, Greenhouse_15, Grizzly_13, Guanica15_18, Guillsminger_16, Halo_13, HedwigODU_18, Heftyboy_16, Homura_18, Hope_13, Hotshotbaby7_13, Huntingdon_15, Hurricane_17, Hyperbowlee_18, Illumine_18, Inky_18, InvictusManeo_16, JAWS_18, JF1_19, JacoRen57_12, Jane_13, Jarvi_18, Jayhawk_18, Jeckyll_18, Joann_15, Jolene_13, Jolie2_13, Jonghyun_13, JorRay_13, Joy99_18, Juicebox_14, Juliette_19, Kareem_13, Kasen3_13, Keshu_17, KiSi_17, Kratio_15, Kraw_19, Krueger_17, Lakshmi_15, Larva_16, LastHope_18, LaterM_18, LeMond_17, Lemuria_13, Leston_16, Liefie_13, LilSpotty_12, LindNT_18, Llorens_18, LouisV14_13, Lunahalos_18, MOOREtheMARYer_13, MacKat_19, MacnCheese_18, Maco6_13, Maliketh_13, Malthus_19, Marcoliusprime_14, MarkPhew_18, Marmie_13, McMater_18, MeaningOfLife_18, Megsy_18, Mercurio_14, Milly_14, Miryou_16, Misaeng_15, MissDaisy_19, Mitti_19, Mowgli_13, Muddy_15, Mufasa_14, Murucutumbu_18, Mynx_18, Neighly_16, Nibb_17, Niklas_18, Nubia_15, OctaviousRex_13, OkiRoe_16, Olga_13, OmniCritical_19, Omnicon_16, Oscar_17, Oxynfriuus_15, Pace1224_13, Padfoot_18, Padpat_18, Paito_13, Paola_16, Patt_19, Peanam_18, Peeb_13, Peel_18, Periodt_13, Pharb_17, PhelpsODU_17, Phish_13, Phrank_17, Phreak_13, Piatt_18, PinkYoshi_13, Pinnie_14, Pixie_17, Plagueis_13, Pokerus_17, Prithvi_18, Psycho_16, QuincyRose_17, Rabbs_13, Ramen_18, Rando14_16, Rapunzel97_18, RcigaStruga_15, Remy19_13, Renaissance_13, Reptar3000_19, Richo_18, Rosmarinus_18, Ruthiejr_18, SamScheppers_17, SamuelLPlaqson_18, Scarlett_17, Schiebel_13, ShaboiShabazz_13, Shadow1_16, Shaobing_18, ShedlockHolmes_17, ShiaSurprise_18, SirPhilip_17, Sizemore_13, Slarp_19, Slimphazie_18, Sneeze_13, SoSeph_16, Spock_18, Stargaze_13, Stinson_18, Strobilo_14, Sulley_18, Sunflower1121_16, Sweets_13, Syra333_17, TBond007_17, TClif_17, TM4_14,

Tachez_18, Taheera_13, TaiwanKao_19, Taquito_17, Terror_13, Thyatira_16, Tierra_17, TinaBug_13, TingHuaYa_18, TiniBug_18, Tiri_18, TomBrady_13, Topper_18, TreyKay_18, TribbleTrouble_16, TruffulaTree_18, Twitch_18, Unicorn_17, Urkel_18, Validus_18, Veliki_18, ViviJ_15, Waterfoul_16, Wendigo_13, Wintermute_19, Ximenita_18, Y10_19, Y2_19, YoureAdopted_17, Yuna_18, Yunkel11_18, Zabiza_18, Zavala_18, ZoMa_13, ZoeJ_14, Zombie_13,

Summary by start number:

Start 18:

- Found in 3 of 581 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 511
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Amgine_16 (K6),

Start 34:

- Found in 2 of 581 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 511
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_14 (K2), Mufasa_14 (K2),

Start 35:

- Found in 8 of 581 (1.4%) of genes in pham
- Manual Annotations of this start: 8 of 511
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DismalFunk_14 (K2), DismalStressor_14 (K2), Findley_14 (K2), Marcoliusprime_14 (K2), Milly_14 (K2), Strobilo_14 (K2), TM4_14 (K2), ZoeJ_14 (K2),

Start 36:

- Found in 108 of 581 (18.6%) of genes in pham
- Manual Annotations of this start: 102 of 511
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_18 (K1), Adephegia_18 (K1), Adonis_18 (K1), AlishaPH_18 (K1), Amelie_14 (K1), Angelica_18 (K1), Apocalypse_18 (K1), Asayake_18 (K1), Atiba_18 (K1), BEEST_18 (K1), BGIlluviae_18 (K1), BaghaKamala_18 (K1), BarrelRoll_18 (K1), Beezoo_18 (K1), Bella96_18 (K1), Belladonna_18 (K1), Bern_20 (K1), Binglebops_14 (K1), Blizzard_18 (K1), Boiiii_18 (K1), Bryler_17 (K6), CREW_18 (K1), Cain_17 (K6), CallaLilly_19 (K1), Capricorn_18 (K1), CaseJules_18 (K1), CheetoDust_18 (K1), Chris_17 (K1), Clipper_20 (K1), CrimD_18 (K1), Dalmuri_18 (K1), Deby_18 (K1), Devera_18 (K1), Dole_18 (K1), DrHayes_18 (K1), Durfee_18 (K1), Emerson_18 (K1), Enkosi_14 (K1), Ganymede_19 (K1), Geraldini_18 (K1), HedwigODU_18 (K1), Homura_18 (K1), Hyperbowlee_18 (K1), Illumine_18 (K1), Inky_18 (K1), JAWS_18 (K1), Jarvi_18 (K1), Jayhawk_18 (K1), Jeckyll_18 (K1), Joy99_18 (K1), KiSi_17 (K1), Krueger_17 (K6), LeMond_17 (K1), LilPharaoh_14 (K1), LindNT_18 (K1), Llorens_18 (K1), Lunahalos_18 (K1), MackKat_19 (K1), MarkPhew_18 (K1), Mdavu_14 (K1), MeaningOfLife_18 (K1), Megsy_18 (K1), Mynx_18 (K1), Nibb_17 (K1), Nikao_14 (K1), Nutello_14 (K1), Oscar_17 (K1), Padfoot_18 (K1), Padpat_18 (K1), Peel_18 (K1), PhelpsODU_17 (K6), Phrank_17 (K6), Piatt_18 (K1), Pokerus_17 (K1), Prithvi_18 (K1), QuincyRose_17 (K1), Ramen_18 (K1), Rapunzel97_18 (K1), Rosmarinus_18 (K1), SamuelLPlaqson_18 (K1), Scarlett_17 (K1), SgtBeansprout_14 (K1), Shadow1_16 (K6), ShiaSurprise_18 (K1), SirPhilip_17 (K6), Slimphazie_18 (K1), Spock_18 (K1),

Sulley_18 (K1), Sunflower1121_16 (K6), Syra333_17 (K6), TClif_17 (K6), Tachez_18 (K1), TaiwanKao_19 (K1), Tierra_17 (K6), TiniBug_18 (K1), Tiri_18 (K1), Topper_18 (K1), Torres_14 (K1), TreyKay_18 (K1), TruffulaTree_18 (K1), Twitch_18 (K1), Unicorn_17 (K6), Urkel_18 (K1), Veliki_18 (K1), Ximenita_18 (K6), YoureAdopted_17 (K1), Zabiza_18 (K1), Zavala_18 (K1),

Start 37:

- Found in 5 of 581 (0.9%) of genes in pham
- Manual Annotations of this start: 5 of 511
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ageofdapage_18 (K1), Anaya_19 (K1), LaterM_18 (K1), Murucutumbu_18 (K1), Stinson_18 (K1),

Start 38:

- Found in 6 of 581 (1.0%) of genes in pham
- Manual Annotations of this start: 6 of 511
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hurricane_17 (K3), Keshu_17 (K3), MacnCheese_18 (K3), Pixie_17 (K3), ShedlockHolmes_17 (K3), TBond007_17 (K3),

Start 39:

- Found in 185 of 581 (31.8%) of genes in pham
- Manual Annotations of this start: 133 of 511
- Called 81.1% of time when present
- Phage (with cluster) where this start called: 8UZL_15 (AB), Agent47_16 (K5), AlleyCat_16 (K5), Aminay_16 (K7), Amohntion_17 (K6), Angel_13 (G1), Annihilator_13 (G1), Antsirabe_13 (G5), Aroostook_13 (G1), Avocado_13 (G2), Avrafan_13 (G1), AzulaCat_13 (G1), BPs_13 (G1), BQuat_13 (G1), Barkley26_13 (G1), Boilgate_15 (K8), BruceB_13 (G1), CLED96_13 (G1), Cambiare_14 (G2), Camri_13 (G1), CassieYates_13 (G1), Cedasite_13 (G1), Chance64_13 (G1), Chancellor_19 (K4), Cheetobro_19 (K4), Cherrybomb426_13 (G1), Coleslaw_13 (G1), Collard_16 (K5), Crespo_13 (G1), Curiosium_19 (K1), DMoney_13 (G1), DNAIII_0013 (G1), Dadosky_16 (K5), Darionha_13 (G1), DARTH_17 (K6), Dartin_18 (K1), ECartman_13 (G1), Edugator_15 (K5), Efra2_18 (K1), Ekdilam_15 (K6), Ellie_15 (K6), Eponine_19 (K4), FF47_15 (AB), Fefferhead_17 (K6), Feyre_16 (K5), Fionnbharth_19 (K4), FlagStaff_13 (G2), Frosty24_13 (G1), Gengar_16 (K5), Gideon_13 (G1), GoldenAsh_13 (G1), Gomashi_13 (G1), Grizzly_13 (G1), Guanica15_18 (K1), Guillsminger_16 (K5), Halo_13 (G1), Hammy_17 (K6), Heftyboy_16 (K5), Hope_13 (G1), Hotshotbaby7_13 (G1), InvictusManeo_16 (K5), JF1_19 (K4), JacoRen57_12 (AB), Jane_13 (G1), Jolene_13 (G1), Jolie2_13 (G4), Jonghyun_13 (G1), JorRay_13 (G1), Juliette_19 (K4), Kareem_13 (G1), Kasen3_13 (G1), Kratio_15 (K5), Kraw_19 (K4), Larva_16 (K5), LastHope_18 (K1), Lemuria_13 (G4), Leston_16 (K5), Liefie_13 (G1), LouisV14_13 (G1), MOOREtheMARYer_13 (G3), Maco6_13 (AB), Maliketh_13 (G1), Malthus_19 (K4), Marmie_13 (G1), Marshawn_19 (K6), McMater_18 (K1), Mercurio_14 (G4), Miryou_16 (K5), MissDaisy_19 (K4), Mitti_19 (K4), Mowgli_13 (G1), Muddy_15 (AB), Neighly_16 (K3), Niklas_18 (K1), November_16 (K6), OctaviousRex_13 (G1), OkiRoe_16 (K5), Olga_13 (G1), OmniCritical_19 (K4), Omnicron_16 (K5), Pace1224_13 (G2), Paito_13 (G1), Paola_16 (K5), Patt_19 (K4), Peanam_18 (K1), Peeb_13 (G1), Periodt_13 (G1), Pharb_17 (K3), Phish_13 (G1), Phreak_13 (G1), PinkYoshi_13 (G1), Pinnie_14 (G3), Plagueis_13 (G1), Psycho_16 (K5), Rabbs_13 (G1), Rando14_16 (K5), Remy19_13 (G1), Renaissance_13 (G1), Reptar3000_19 (K4), Richo_18 (K1), Ruthiejr_18 (K4), SamScheppers_17 (K4), Schiebel_13 (G1), ShaboiShabazz_13

(G1), Shaobing_18 (K1), Sizemore_13 (G1), Slarp_19 (K4), Sneeze_13 (G1), SoSeph_16 (K5), Stargaze_13 (G5), Sweets_13 (G1), Taheera_13 (G1), Taquito_17 (K4), Terror_13 (G1), Thyatira_16 (K5), TinaBug_13 (G1), TingHuaYa_18 (K1), TomBrady_13 (G1), TribbleTrouble_16 (K3), Validus_18 (K1), ViviJ_15 (K5), Waterfoul_16 (K5), Wendigo_13 (G1), Wintermute_19 (K4), Y10_19 (K4), Y2_19 (K4), Yuna_18 (K6), Yunkel11_18 (K1), ZoMa_13 (G1), Zombie_13 (G1),

Start 43:

- Found in 9 of 581 (1.5%) of genes in pham
- Manual Annotations of this start: 9 of 511
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese_15 (AK), Greenhouse_15 (AK), Huntingdon_15 (AK), Joann_15 (AK), Lakshmi_15 (AK), Misaeng_15 (AK), Nubia_15 (AK), Oxynfrius_15 (AK), RcigaStruga_15 (AK),

Start 44:

- Found in 304 of 581 (52.3%) of genes in pham
- Manual Annotations of this start: 243 of 511
- Called 95.4% of time when present
- Phage (with cluster) where this start called: Abidatro_13 (AS1), Abigail_12 (EB), Agatha_13 (CT), AikoCarson_12 (CT), Akino08_20 (EB), Albedo_12 (EB), Albright_12 (EB), Aledel_11 (AK), Amelia_14 (AS2), AmiCi24_12 (AS3), Amok_12 (CT), AndPeggy_12 (CT), Andrew_13 (AS3), Angelique_14 (CY1), AnnaLie_13 (EB), Antrice_13 (AS2), AppleCider_15 (AK), Armstrong_11 (EB), Arroyo_13 (EB), Atlantica_12 (AS3), AustinPowers_11 (AK), AvGardian_12 (EB), Avocadoman_12 (EB), Axym_13 (CT), Azira_15 (CT), BAjuniper_12 (EB), BabyDaisy_13 (EB), BabyYoda_12 (EB), Bachaco_12 (EB), Basilisk_13 (AS1), Bavilard_13 (CT), Bedetta_14 (AS2), BeeGee_14 (CY), Beethoven_15 (AK), BelmontSKP_13 (EB), Bengal_12 (EB), Bennie_11 (AK), Bernstein_11 (EB), Bibble12_14 (AS2), BigChungus_12 (CT), BigMack_11 (AK), BillDoor_15 (CT), Biskit_14 (CT), Blondies_13 (CT), Bodacious_11 (AK), Bradissa_14 (CY1), Brahms_11 (EB), BritBrat_14 (CY2), BrotherBlo_15 (AK), Brynnie_13 (AS1), BubbaBear_12 (EB), Buldak_12 (EB), Burnsey_13 (CT), Burritobowl_12 (EB), Button_14 (CT), Buttrmilkdreams_13 (CT), CallieOMalley_15 (AK), Camara_12 (AS3), CanesSauce_13 (CT), Canowicakte_15 (AK), Carpal_15 (AK), Carsonalex_14 (CT), Cashington_12 (EB), Cashline_14 (CY), Celaena_12 (EB), CherryonLim_14 (CT), ChewChew_11 (AK), Chickaboom_12 (AS1), ChickenTender_15 (CT), ChiliPepper_12 (EB), ChocoMunchkin_13 (CT), Cholula_15 (AK), Chridison_11 (AK), Christian_11 (AK), Clayda5_11 (EB), Cleo_13 (CT), CliffHanger_13 (EB), Coltrane_11 (EB), Colusalem_13 (AS2), Confidence_14 (CY1), Coral_13 (AS2), Cote_14 (AS2), Cozz_13 (CT), CristinaYang_11 (AK), CroZenni_12 (EB), CupcakePrincess_12 (EB), Daiboju_11 (AK), Daob_14 (AS2), DickRichards_12 (EB), Didgeridoo_13 (EB), Dino_15 (AK), DirtyBubble_12 (EB), Dismas_12 (EB), Doobus_12 (EB), DrRobert_11 (AK), Dre3_13 (CT), DreamTeam_11 (AK), EMSquaredA_14 (CY1), Eden_11 (EB), Eesa_13 (AS1), Elinal_14 (CT), Elliott_13 (CT), Elva_13 (EB), Emalyn_12 (CT), EnalisNailo_14 (CY1), EstebanJulior_11 (AK), Eula_12 (EB), Eunoia_11 (AK), Feastonyeet_12 (CT), Finalfrontier_13 (EB), FlameThrower_12 (EB), Floral_14 (CY1), Fluke_15 (AK), Franklin22_11 (EB), Frib8_14 (CT), GTE2_11 (CT), Gack_11 (EB), Galaxy_13 (AS1), GiKK_16 (CT), Gibbous_13 (CT), Gisselle_11 (AK), Glenn_15 (AK), Glotell_12 (AS3), GoldHunter_14 (CT), Gravel_14 (AS1), GreenHearts_15 (AK), HamCheese_12 (AS3), HannahPhantana_14 (AS2), HeadNerd_11 (AK), Herb_11 (AK), Hexbug_15 (CT), HippoPololi_15 (CT), Horseradish_14 (CT), Huckleberry_11 (AK),

HunterDalle_11 (AK), Icarian_13 (EB), Immaculata_15 (AK), IndyLu_12 (EB), Jabb_12 (EB), Jablanski_14 (CY), Jamun_13 (AS1), Jamzy_16 (CT), Jerole_14 (AS2), Johnathan_12 (EB), Jovita_12 (EB), Jumboset_15 (AK), Juno112_12 (AS3), KHumphrey_12 (AS3), Kalizoi_15 (AK), Kate33_12 (EB), Katzastrophic_12 (EB), KayGee_13 (CT), KendraB23_14 (AS1), Kenzers_12 (EB), Kepler_13 (AS2), Kieran_12 (EB), KingBob_11 (AK), Kittykat_11 (AK), Korra_15 (AK), Kuleana_13 (AS2), Lahqtemish_12 (EB), Lasagna_11 (AK), Lauer_12 (CT), Lennox_11 (AK), Leona_12 (AS3), LilStuart_11 (AK), Lilas_14 (CY1), LimaBean_12 (EB), Litotes_15 (AK), LittleTokyo_13 (AS2), LonelyBoi_14 (CY), Loviatar_20 (EB), Lucy_11 (AK), Lunar_14 (AS2), Lynlen_12 (EB), MAnor_13 (CT), MScarn_15 (CT), MaVan_15 (CT), Makoto_11 (AK), MamaPearl_11 (AK), Margaret_16 (CT), Maria1952_11 (AK), Marteena_14 (CY1), Mayweather_14 (CT), MeganNoll_15 (AK), Melons_14 (AS2), Moki_11 (AK), MrGloopy_15 (AK), MsUbiquitous_12 (EB), MunkgeeRoachy_13 (CT), Nancia_11 (AK), Nibbles_15 (CT), Nicky22_13 (EB), Nina_14 (CT), Nodigi_15 (CT), OMalley_11 (AK), Olliecat_12 (EB), Orcanus_13 (AS1), Orla_15 (CT), OurGirlNessie_11 (AK), PartyCup_15 (AK), PastaFagioli_12 (EB), Pelletreau_14 (AS1), PhigPhack_12 (EB), Phisb_12 (EB), PhluffyCoco_12 (AS3), PinkFriday_11 (AK), PitaDog_11 (AK), Polka_13 (AS2), Pollux_14 (CY1), Pons_13 (CT), Posh_14 (CY), PotPie_13 (CT), Potatoes_15 (AK), Preamble_11 (AK), PsychoKiller_13 (CT), Pterodactyl_11 (AK), Pumancara_11 (AK), Pytheas_14 (CY), QMacho_13 (EB), Quasar_13 (CT), Quenya_13 (EB), RAP15_15 (AK), RanchParmCat_16 (CT), Rattail_12 (AS3), RedBaron_14 (CT), RedFox_12 (AS3), Renna12_13 (AS3), Rivovina_11 (AK), Riverdale_15 (AK), Rollins_11 (EB), Rona_12 (EB), Rozby_15 (AK), Ruchi_13 (AS1), SanaSana_13 (EB), SansAfet_12 (EB), SarBear_12 (EB), Savage2526_15 (AK), Scuttle_15 (AK), Sergei_11 (AK), Sharkboy_12 (EB), Shayna_11 (EB), SheckWes_12 (CT), SketchMex_12 (CT), Skylord_11 (EB), Slay_12 (EB), Sleepyhead_13 (singleton), Softsoap_12 (EB), Sopespian_13 (CT), Squircle_12 (EB), Starburst_14 (CT), SteamedHams_15 (CT), Stoor_12 (EB), Stromboli_12 (EB), StuartMinion_12 (AS3), SummitAcademy_12 (CT), SunnyD_11 (EB), Supakev_11 (AK), Suppi_15 (AK), Survivors_15 (CT), SweatNTears_15 (CT), Swervy_12 (EB), TattModd_15 (AK), TaylorSipht_13 (AS1), Teagster_11 (EB), Temper16_11 (AK), Toad24_14 (AS1), Tolls_15 (CT), Troje_13 (CT), TukTuk_12 (EB), Typhonmarchy_14 (CT), Urla_11 (AK), Vallejo_15 (AK), Vine_14 (CT), Vitas_11 (EB), Vulpecula_13 (AS1), Vulture_11 (AK), WalkingDead_12 (EB), Wawa_15 (AK), Wayne_15 (AK), Westrich_14 (AS1), WonderBoy_11 (AK), Wrigley_14 (CY), Yakult_14 (CT), Yarn_12 (CT), Yucky_15 (CT), Yummy_14 (CT), Zareef_17 (CT), Zhuangyuan_15 (AS2), Zorro_15 (AK),

Start 45:

- Found in 2 of 581 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 511
- Called 50.0% of time when present
- Phage (with cluster) where this start called: LilSpotty_12 (singleton),

Start 47:

- Found in 1 of 581 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 511
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Juicebox_14 (singleton),

Summary by clusters:

There are 24 clusters represented in this pham: singleton, AS2, CY1, K3, K2, K1, K7, K6, K5, K4, K8, G5, G4, G3, G2, G1, AS3, CY2, AS1, AB, AK, EB, CY, CT,

Info for manual annotations of cluster AB:

- Start number 39 was manually annotated 3 times for cluster AB.

Info for manual annotations of cluster AK:

- Start number 43 was manually annotated 9 times for cluster AK.
- Start number 44 was manually annotated 74 times for cluster AK.

Info for manual annotations of cluster AS1:

- Start number 44 was manually annotated 11 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 44 was manually annotated 11 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 44 was manually annotated 7 times for cluster AS3.

Info for manual annotations of cluster CT:

- Start number 44 was manually annotated 54 times for cluster CT.

Info for manual annotations of cluster CY:

- Start number 44 was manually annotated 7 times for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 44 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 44 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster EB:

- Start number 44 was manually annotated 68 times for cluster EB.

Info for manual annotations of cluster G1:

- Start number 39 was manually annotated 60 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 39 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 39 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 39 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 39 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster K1:

- Start number 36 was manually annotated 89 times for cluster K1.
- Start number 37 was manually annotated 5 times for cluster K1.
- Start number 39 was manually annotated 9 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 34 was manually annotated 2 times for cluster K2.
- Start number 35 was manually annotated 8 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 38 was manually annotated 6 times for cluster K3.
- Start number 39 was manually annotated 2 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 39 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 39 was manually annotated 22 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 18 was manually annotated 1 time for cluster K6.
- Start number 36 was manually annotated 13 times for cluster K6.
- Start number 39 was manually annotated 8 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 39 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 39 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: 8UZL_15 Start: 9344, Stop: 9985, Start Num: 39

Candidate Starts for 8UZL_15:

(27, 9311), (Start: 39 @9344 has 133 MA's), (48, 9377), (49, 9386), (52, 9404), (66, 9470), (74, 9509), (75, 9524), (88, 9629), (92, 9650), (95, 9680), (102, 9719), (111, 9764), (129, 9848), (134, 9869),

Gene: Abidatro_13 Start: 8801, Stop: 9631, Start Num: 44

Candidate Starts for Abidatro_13:

(Start: 44 @8801 has 243 MA's), (95, 9110), (107, 9176), (120, 9233), (126, 9269), (136, 9305), (141, 9338), (151, 9392), (160, 9437), (168, 9491), (172, 9512),

Gene: Abigail_12 Start: 8439, Stop: 9236, Start Num: 44

Candidate Starts for Abigail_12:

(3, 8139), (9, 8235), (10, 8253), (23, 8355), (Start: 39 @8409 has 133 MA's), (Start: 44 @8439 has 243 MA's), (46, 8445), (74, 8586), (75, 8601), (102, 8793), (121, 8880), (159, 9081), (175, 9177),

Gene: ActinUp_18 Start: 10504, Stop: 11118, Start Num: 36

Candidate Starts for ActinUp_18:

(Start: 36 @10504 has 102 MA's), (49, 10549), (74, 10672), (78, 10726), (86, 10783), (90, 10798), (102, 10882), (103, 10888), (111, 10927), (114, 10939), (120, 10966), (129, 11011), (132, 11026), (139, 11050), (150, 11107),

Gene: Adephagia_18 Start: 10504, Stop: 11118, Start Num: 36

Candidate Starts for Adephagia_18:

(Start: 36 @10504 has 102 MA's), (49, 10549), (74, 10672), (78, 10726), (86, 10783), (90, 10798), (102, 10882), (103, 10888), (111, 10927), (114, 10939), (120, 10966), (129, 11011), (132, 11026), (139, 11050), (150, 11107),

Gene: Adonis_18 Start: 10513, Stop: 11127, Start Num: 36

Candidate Starts for Adonis_18:

(Start: 36 @10513 has 102 MA's), (49, 10558), (74, 10681), (78, 10735), (86, 10792), (90, 10807), (102, 10891), (103, 10897), (111, 10936), (114, 10948), (120, 10975), (129, 11020), (132, 11035), (139, 11059),

Gene: Agatha_13 Start: 7939, Stop: 8781, Start Num: 44

Candidate Starts for Agatha_13:

(Start: 44 @7939 has 243 MA's), (51, 7972), (79, 8158), (92, 8230), (111, 8329), (133, 8431), (136, 8440), (137, 8446), (144, 8479), (153, 8515), (154, 8524), (181, 8710), (182, 8716),

Gene: Agent47_16 Start: 10624, Stop: 11235, Start Num: 39

Candidate Starts for Agent47_16:

(Start: 39 @10624 has 133 MA's), (49, 10669), (78, 10846), (86, 10903), (90, 10918), (92, 10933), (102, 11002), (103, 11008), (111, 11047), (116, 11074), (129, 11131), (132, 11146), (139, 11170), (143, 11200),

Gene: Ageofdapage_18 Start: 10435, Stop: 11046, Start Num: 37

Candidate Starts for Ageofdapage_18:

(Start: 37 @10435 has 5 MA's), (49, 10477), (74, 10600), (78, 10654), (86, 10711), (90, 10726), (95, 10771), (102, 10810), (103, 10816), (111, 10855), (114, 10867), (120, 10894), (129, 10939), (132, 10954), (139, 10978),

Gene: AikoCarson_12 Start: 7662, Stop: 8510, Start Num: 44

Candidate Starts for AikoCarson_12:

(30, 7605), (Start: 44 @7662 has 243 MA's), (51, 7695), (79, 7881), (92, 7953), (125, 8118), (133, 8154), (136, 8163), (137, 8169), (144, 8202), (153, 8238), (154, 8247), (181, 8433), (182, 8439),

Gene: Akino08_20 Start: 8625, Stop: 9422, Start Num: 44

Candidate Starts for Akino08_20:

(Start: 44 @8625 has 243 MA's), (46, 8631), (61, 8709), (74, 8775), (75, 8790), (97, 8949), (102, 8982), (111, 9027), (159, 9267),

Gene: Albanese_15 Start: 10902, Stop: 11810, Start Num: 43

Candidate Starts for Albanese_15:

(Start: 43 @10902 has 9 MA's), (75, 11058), (89, 11163), (95, 11211), (136, 11400), (166, 11574), (170, 11604), (178, 11655), (179, 11661),

Gene: Albedo_12 Start: 8314, Stop: 9111, Start Num: 44

Candidate Starts for Albedo_12:

(9, 8110), (10, 8128), (23, 8230), (Start: 39 @8284 has 133 MA's), (Start: 44 @8314 has 243 MA's), (46, 8320), (74, 8461), (75, 8476), (96, 8632), (102, 8668), (111, 8713), (121, 8755), (159, 8956),

Gene: Albright_12 Start: 8320, Stop: 9117, Start Num: 44

Candidate Starts for Albright_12:

(3, 8020), (9, 8116), (10, 8134), (23, 8236), (Start: 39 @8290 has 133 MA's), (Start: 44 @8320 has 243 MA's), (46, 8326), (74, 8467), (75, 8482), (102, 8674), (121, 8761), (159, 8962), (175, 9058),

Gene: Aledel_11 Start: 7979, Stop: 8884, Start Num: 44

Candidate Starts for Aledel_11:

(Start: 44 @7979 has 243 MA's), (69, 8090), (75, 8135), (98, 8297), (112, 8366), (135, 8471), (136, 8474), (140, 8489), (166, 8648), (170, 8678), (173, 8696), (179, 8735), (186, 8813),

Gene: AlishaPH_18 Start: 10503, Stop: 11114, Start Num: 36

Candidate Starts for AlishaPH_18:

(Start: 36 @10503 has 102 MA's), (49, 10545), (78, 10722), (86, 10779), (90, 10794), (102, 10878), (103, 10884), (111, 10923), (114, 10935), (120, 10962), (129, 11007), (132, 11022), (139, 11046), (150, 11103),

Gene: AlleyCat_16 Start: 10500, Stop: 11111, Start Num: 39

Candidate Starts for AlleyCat_16:

(Start: 39 @10500 has 133 MA's), (49, 10545), (86, 10779), (90, 10794), (92, 10809), (102, 10878), (103, 10884), (111, 10923), (114, 10935), (116, 10950), (129, 11007), (132, 11022), (139, 11046), (143, 11076),

Gene: Amelia_14 Start: 8964, Stop: 9545, Start Num: 44

Candidate Starts for Amelia_14:

(Start: 44 @8964 has 243 MA's), (49, 8985), (68, 9072), (75, 9120), (95, 9273), (111, 9357), (119, 9393), (121, 9399), (126, 9432), (141, 9501),

Gene: Amelie_14 Start: 9777, Stop: 10388, Start Num: 36

Candidate Starts for Amelie_14:

(Start: 36 @9777 has 102 MA's), (Start: 44 @9798 has 243 MA's), (49, 9819), (74, 9942), (75, 9957), (78, 9996), (86, 10053), (90, 10068), (95, 10113), (102, 10152), (103, 10158), (111, 10197), (114, 10209), (129, 10281), (132, 10296), (139, 10320), (143, 10350),

Gene: Amgine_16 Start: 10111, Stop: 10827, Start Num: 18

Candidate Starts for Amgine_16:

(2, 9946), (Start: 18 @10111 has 1 MA's), (25, 10174), (28, 10183), (Start: 39 @10216 has 133 MA's), (49, 10258), (74, 10381), (76, 10402), (78, 10435), (86, 10492), (90, 10507), (102, 10591), (103, 10597), (111, 10636), (114, 10648), (120, 10675), (132, 10735), (139, 10759),

Gene: AmiCi24_12 Start: 8378, Stop: 8959, Start Num: 44

Candidate Starts for AmiCi24_12:

(Start: 44 @8378 has 243 MA's), (49, 8399), (95, 8687), (111, 8771), (120, 8810), (121, 8813), (126, 8846), (141, 8915), (148, 8945),

Gene: Aminay_16 Start: 10358, Stop: 10966, Start Num: 39

Candidate Starts for Aminay_16:

(Start: 39 @10358 has 133 MA's), (56, 10433), (65, 10481), (75, 10538), (76, 10544), (86, 10634), (92, 10664), (95, 10694), (99, 10706), (102, 10733), (103, 10739), (116, 10805), (129, 10862), (132, 10877), (139, 10901),

Gene: Amohnition_17 Start: 10531, Stop: 11145, Start Num: 39

Candidate Starts for Amohnition_17:

(Start: 39 @10531 has 133 MA's), (42, 10552), (Start: 44 @10555 has 243 MA's), (49, 10576), (76, 10720), (78, 10753), (86, 10810), (90, 10825), (102, 10909), (103, 10915), (111, 10954), (114, 10966), (120, 10993), (132, 11053), (139, 11077), (143, 11107),

Gene: Amok_12 Start: 7662, Stop: 8510, Start Num: 44

Candidate Starts for Amok_12:

(30, 7605), (Start: 44 @7662 has 243 MA's), (51, 7695), (79, 7881), (92, 7953), (125, 8118), (133, 8154), (136, 8163), (137, 8169), (144, 8202), (153, 8238), (154, 8247), (181, 8433), (182, 8439),

Gene: Anaya_19 Start: 10513, Stop: 11124, Start Num: 37

Candidate Starts for Anaya_19:

(Start: 37 @10513 has 5 MA's), (49, 10555), (74, 10678), (86, 10789), (90, 10804), (95, 10849), (102, 10888), (103, 10894), (111, 10933), (129, 11017), (132, 11032), (139, 11056),

Gene: AndPeggy_12 Start: 7953, Stop: 8798, Start Num: 44

Candidate Starts for AndPeggy_12:

(30, 7896), (Start: 44 @7953 has 243 MA's), (51, 7986), (79, 8172), (92, 8244), (133, 8445), (137, 8460), (144, 8493), (153, 8529), (154, 8538), (159, 8568), (181, 8724), (182, 8730),

Gene: Andrew_13 Start: 8753, Stop: 9334, Start Num: 44

Candidate Starts for Andrew_13:

(Start: 44 @8753 has 243 MA's), (49, 8774), (95, 9062), (111, 9146), (119, 9182), (133, 9248), (148, 9320),

Gene: Angel_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Angel_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Angelica_18 Start: 10475, Stop: 11089, Start Num: 36

Candidate Starts for Angelica_18:

(Start: 36 @10475 has 102 MA's), (49, 10520), (74, 10643), (78, 10697), (86, 10754), (90, 10769), (102, 10853), (103, 10859), (111, 10898), (114, 10910), (120, 10937), (129, 10982), (132, 10997), (139, 11021), (150, 11078),

Gene: Angelique_14 Start: 8715, Stop: 9560, Start Num: 44

Candidate Starts for Angelique_14:

(Start: 44 @8715 has 243 MA's), (63, 8796), (111, 9105), (113, 9114), (144, 9255), (167, 9396), (176, 9447),

Gene: AnnaLie_13 Start: 8729, Stop: 9526, Start Num: 44

Candidate Starts for AnnaLie_13:

(9, 8525), (10, 8543), (Start: 39 @8699 has 133 MA's), (Start: 44 @8729 has 243 MA's), (46, 8735), (74, 8876), (75, 8891), (102, 9083), (121, 9170), (159, 9371), (175, 9467),

Gene: Annihilator_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Annihilator_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Antrice_13 Start: 8717, Stop: 9298, Start Num: 44

Candidate Starts for Antrice_13:

(Start: 44 @8717 has 243 MA's), (49, 8738), (95, 9026), (111, 9110), (120, 9149), (137, 9227), (148, 9284),

Gene: Antsirabe_13 Start: 10190, Stop: 10810, Start Num: 39

Candidate Starts for Antsirabe_13:

(Start: 39 @10190 has 133 MA's), (41, 10214), (53, 10265), (65, 10322), (74, 10364), (75, 10379), (86, 10475), (90, 10490), (94, 10514), (95, 10535), (102, 10574), (106, 10598), (116, 10646), (122, 10670), (123, 10676), (132, 10718), (139, 10742), (143, 10772),

Gene: Apocalypse_18 Start: 10479, Stop: 11093, Start Num: 36

Candidate Starts for Apocalypse_18:

(Start: 36 @10479 has 102 MA's), (49, 10524), (74, 10647), (78, 10701), (86, 10758), (90, 10773), (102, 10857), (103, 10863), (111, 10902), (114, 10914), (120, 10941), (129, 10986), (132, 11001), (139, 11025), (150, 11082),

Gene: AppleCider_15 Start: 10835, Stop: 11743, Start Num: 44

Candidate Starts for AppleCider_15:

(Start: 44 @10835 has 243 MA's), (49, 10856), (75, 10991), (98, 11153), (102, 11183), (129, 11303), (136, 11333), (140, 11348), (150, 11411), (152, 11429), (166, 11507), (170, 11537), (171, 11543), (178, 11588), (179, 11594),

Gene: Armstrong_11 Start: 8096, Stop: 8680, Start Num: 44

Candidate Starts for Armstrong_11:

(Start: 44 @8096 has 243 MA's), (46, 8102), (49, 8117), (50, 8123), (69, 8207), (75, 8255), (95, 8408), (97, 8414), (102, 8447), (117, 8522), (119, 8528), (121, 8534),

Gene: Aroostook_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Aroostook_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Arroyo_13 Start: 8790, Stop: 9587, Start Num: 44

Candidate Starts for Arroyo_13:

(9, 8586), (10, 8604), (23, 8706), (Start: 39 @8760 has 133 MA's), (Start: 44 @8790 has 243 MA's), (46, 8796), (74, 8937), (75, 8952), (102, 9144), (121, 9231), (159, 9432), (175, 9528),

Gene: Asayake_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Asayake_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Atiba_18 Start: 10467, Stop: 11081, Start Num: 36

Candidate Starts for Atiba_18:

(Start: 36 @10467 has 102 MA's), (49, 10512), (74, 10635), (78, 10689), (86, 10746), (90, 10761), (102, 10845), (103, 10851), (111, 10890), (114, 10902), (120, 10929), (129, 10974), (132, 10989), (139, 11013),

Gene: Atlantica_12 Start: 8378, Stop: 8959, Start Num: 44

Candidate Starts for Atlantica_12:

(Start: 44 @8378 has 243 MA's), (49, 8399), (95, 8687), (111, 8771), (120, 8810), (121, 8813), (126, 8846), (141, 8915), (148, 8945),

Gene: AustinPowers_11 Start: 7980, Stop: 8885, Start Num: 44

Candidate Starts for AustinPowers_11:

(Start: 44 @7980 has 243 MA's), (75, 8136), (98, 8298), (112, 8367), (136, 8475), (140, 8490), (166, 8649), (170, 8679), (173, 8697), (179, 8736), (186, 8814),

Gene: AvGardian_12 Start: 8379, Stop: 9176, Start Num: 44

Candidate Starts for AvGardian_12:

(Start: 44 @8379 has 243 MA's), (46, 8385), (74, 8529), (75, 8544), (97, 8703), (102, 8736), (121, 8823), (123, 8838), (147, 8955), (159, 9021),

Gene: Avocado_13 Start: 10012, Stop: 10632, Start Num: 39

Candidate Starts for Avocado_13:

(Start: 39 @10012 has 133 MA's), (53, 10087), (65, 10144), (74, 10186), (75, 10201), (86, 10297), (90, 10312), (94, 10336), (95, 10357), (102, 10396), (106, 10420), (111, 10441), (116, 10468), (123, 10498), (132, 10540), (139, 10564),

Gene: Avocadoman_12 Start: 8378, Stop: 9175, Start Num: 44

Candidate Starts for Avocadoman_12:

(3, 8078), (9, 8174), (10, 8192), (23, 8294), (Start: 39 @8348 has 133 MA's), (Start: 44 @8378 has 243 MA's), (46, 8384), (74, 8525), (75, 8540), (102, 8732), (121, 8819), (159, 9020), (175, 9116),

Gene: Avrafan_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Avrafan_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Axym_13 Start: 7939, Stop: 8781, Start Num: 44

Candidate Starts for Axym_13:

(Start: 44 @7939 has 243 MA's), (51, 7972), (79, 8158), (92, 8230), (106, 8308), (111, 8329), (116, 8356), (133, 8431), (136, 8440), (137, 8446), (144, 8479), (153, 8515), (154, 8524), (181, 8710), (182, 8716),

Gene: Azira_15 Start: 8878, Stop: 9717, Start Num: 44

Candidate Starts for Azira_15:

(Start: 44 @8878 has 243 MA's), (51, 8911), (88, 9139), (103, 9220), (113, 9268), (125, 9325), (127, 9337), (133, 9361), (137, 9376), (157, 9469), (162, 9502), (165, 9514), (166, 9517), (183, 9652), (188, 9700),

Gene: AzulaCat_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for AzulaCat_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: BAjuniper_12 Start: 8258, Stop: 8848, Start Num: 44

Candidate Starts for BAjuniper_12:

(Start: 44 @8258 has 243 MA's), (46, 8264), (49, 8279), (74, 8402), (75, 8417), (95, 8570), (102, 8609), (103, 8615), (111, 8654), (120, 8693),

Gene: BEEST_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for BEEST_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: BGilluviae_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for BGlluviae_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: BPs_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for BPs_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: BQuat_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for BQuat_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: BabyDaisy_13 Start: 8547, Stop: 9341, Start Num: 44

Candidate Starts for BabyDaisy_13:

(Start: 44 @8547 has 243 MA's), (74, 8694), (75, 8709), (102, 8901), (111, 8946), (121, 8988), (159, 9186),

Gene: BabyYoda_12 Start: 8571, Stop: 9368, Start Num: 44

Candidate Starts for BabyYoda_12:

(Start: 44 @8571 has 243 MA's), (46, 8577), (74, 8721), (75, 8736), (97, 8895), (102, 8928), (111, 8973), (147, 9147), (159, 9213),

Gene: Bachaco_12 Start: 8464, Stop: 9054, Start Num: 44

Candidate Starts for Bachaco_12:

(Start: 44 @8464 has 243 MA's), (46, 8470), (49, 8485), (55, 8512), (59, 8527), (69, 8575), (74, 8608), (75, 8623), (95, 8776), (102, 8815), (103, 8821), (111, 8860), (120, 8899), (124, 8920),

Gene: BaghaKamala_18 Start: 10470, Stop: 11084, Start Num: 36

Candidate Starts for BaghaKamala_18:

(Start: 36 @10470 has 102 MA's), (49, 10515), (74, 10638), (78, 10692), (86, 10749), (90, 10764), (102, 10848), (103, 10854), (111, 10893), (114, 10905), (120, 10932), (129, 10977), (132, 10992), (139, 11016), (150, 11073),

Gene: Barkley26_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Barkley26_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (92, 10163), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: BarrelRoll_18 Start: 10496, Stop: 11107, Start Num: 36

Candidate Starts for BarrelRoll_18:

(Start: 36 @10496 has 102 MA's), (49, 10538), (74, 10661), (78, 10715), (86, 10772), (90, 10787), (102, 10871), (103, 10877), (111, 10916), (114, 10928), (120, 10955), (129, 11000), (132, 11015), (139, 11039), (150, 11096),

Gene: Basilisk_13 Start: 9125, Stop: 9955, Start Num: 44

Candidate Starts for Basilisk_13:

(Start: 44 @9125 has 243 MA's), (95, 9434), (107, 9500), (120, 9557), (136, 9629), (141, 9662), (151, 9716), (160, 9761), (172, 9836),

Gene: Bavilard_13 Start: 8481, Stop: 9320, Start Num: 44

Candidate Starts for Bavilard_13:

(21, 8367), (30, 8427), (Start: 44 @8481 has 243 MA's), (51, 8514), (79, 8700), (91, 8760), (92, 8772), (113, 8880), (133, 8973), (136, 8982), (137, 8988), (144, 9021), (149, 9051), (159, 9096), (174, 9186),

Gene: Bedetta_14 Start: 8964, Stop: 9545, Start Num: 44

Candidate Starts for Bedetta_14:

(Start: 44 @8964 has 243 MA's), (49, 8985), (68, 9072), (75, 9120), (95, 9273), (111, 9357), (119, 9393), (121, 9399), (126, 9432), (141, 9501),

Gene: BeeGee_14 Start: 8711, Stop: 9556, Start Num: 44

Candidate Starts for BeeGee_14:

(Start: 44 @8711 has 243 MA's), (60, 8780), (63, 8792), (102, 9056), (111, 9101), (113, 9110), (131, 9197), (144, 9251),

Gene: Beethoven_15 Start: 10796, Stop: 11704, Start Num: 44

Candidate Starts for Beethoven_15:

(Start: 44 @10796 has 243 MA's), (75, 10952), (89, 11057), (98, 11114), (136, 11294), (140, 11309), (166, 11468), (170, 11498), (179, 11555),

Gene: Beezoo_18 Start: 10524, Stop: 11135, Start Num: 36

Candidate Starts for Beezoo_18:

(Start: 36 @10524 has 102 MA's), (49, 10566), (74, 10689), (78, 10743), (86, 10800), (90, 10815), (102, 10899), (103, 10905), (111, 10944), (114, 10956), (120, 10983), (129, 11028), (132, 11043), (139, 11067),

Gene: Bella96_18 Start: 10425, Stop: 11039, Start Num: 36

Candidate Starts for Bella96_18:

(Start: 36 @10425 has 102 MA's), (49, 10470), (78, 10647), (86, 10704), (90, 10719), (92, 10734), (95, 10764), (102, 10803), (103, 10809), (111, 10848), (114, 10860), (120, 10887), (129, 10932), (132, 10947), (139, 10971),

Gene: Belladonna_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Belladonna_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: BelmontSKP_13 Start: 8729, Stop: 9526, Start Num: 44

Candidate Starts for BelmontSKP_13:

(9, 8525), (10, 8543), (Start: 39 @8699 has 133 MA's), (Start: 44 @8729 has 243 MA's), (46, 8735), (74, 8876), (75, 8891), (102, 9083), (121, 9170), (159, 9371), (175, 9467),

Gene: Bengal_12 Start: 8320, Stop: 9117, Start Num: 44

Candidate Starts for Bengal_12:

(3, 8020), (9, 8116), (10, 8134), (12, 8143), (23, 8236), (Start: 39 @8290 has 133 MA's), (Start: 44 @8320 has 243 MA's), (46, 8326), (74, 8467), (75, 8482), (102, 8674), (121, 8761), (159, 8962), (175, 9058),

Gene: Bennie_11 Start: 7938, Stop: 8846, Start Num: 44

Candidate Starts for Bennie_11:

(Start: 44 @7938 has 243 MA's), (75, 8094), (89, 8199), (98, 8256), (136, 8436), (140, 8451), (152, 8532), (166, 8610), (170, 8640), (173, 8658), (179, 8697),

Gene: Bern_20 Start: 10456, Stop: 11070, Start Num: 36

Candidate Starts for Bern_20:

(Start: 36 @10456 has 102 MA's), (49, 10501), (74, 10624), (78, 10678), (86, 10735), (90, 10750), (95, 10795), (102, 10834), (103, 10840), (111, 10879), (114, 10891), (120, 10918), (129, 10963), (132, 10978), (139, 11002),

Gene: Bernstein_11 Start: 8156, Stop: 8740, Start Num: 44

Candidate Starts for Bernstein_11:

(Start: 44 @8156 has 243 MA's), (46, 8162), (49, 8177), (50, 8183), (75, 8315), (95, 8468), (97, 8474), (102, 8507), (117, 8582), (119, 8588), (121, 8594),

Gene: Bible12_14 Start: 8967, Stop: 9548, Start Num: 44

Candidate Starts for Bible12_14:

(Start: 44 @8967 has 243 MA's), (49, 8988), (68, 9075), (75, 9123), (95, 9276), (111, 9360), (119, 9396), (121, 9402), (126, 9435), (141, 9504),

Gene: BigChungus_12 Start: 7726, Stop: 8565, Start Num: 44

Candidate Starts for BigChungus_12:

(21, 7612), (30, 7672), (Start: 44 @7726 has 243 MA's), (51, 7759), (79, 7945), (91, 8005), (92, 8017), (133, 8218), (136, 8227), (137, 8233), (144, 8266), (149, 8296), (159, 8341),

Gene: BigMack_11 Start: 7938, Stop: 8846, Start Num: 44

Candidate Starts for BigMack_11:

(Start: 44 @7938 has 243 MA's), (75, 8094), (89, 8199), (95, 8247), (97, 8253), (98, 8256), (136, 8436), (140, 8451), (152, 8532), (166, 8610), (170, 8640),

Gene: Biglebops_14 Start: 9777, Stop: 10388, Start Num: 36

Candidate Starts for Biglebops_14:

(Start: 36 @9777 has 102 MA's), (Start: 44 @9798 has 243 MA's), (49, 9819), (74, 9942), (75, 9957), (78, 9996), (86, 10053), (90, 10068), (95, 10113), (102, 10152), (103, 10158), (111, 10197), (114, 10209), (129, 10281), (132, 10296), (139, 10320), (143, 10350),

Gene: BillDoor_15 Start: 7918, Stop: 8763, Start Num: 44

Candidate Starts for BillDoor_15:

(30, 7861), (Start: 44 @7918 has 243 MA's), (51, 7951), (79, 8137), (92, 8209), (133, 8410), (137, 8425), (144, 8458), (153, 8494), (154, 8503), (159, 8533), (181, 8689), (182, 8695),

Gene: Biskit_14 Start: 7925, Stop: 8770, Start Num: 44

Candidate Starts for Biskit_14:

(21, 7808), (30, 7868), (Start: 44 @7925 has 243 MA's), (51, 7958), (79, 8144), (92, 8216), (133, 8417), (137, 8432), (144, 8465), (154, 8510), (181, 8696), (182, 8702),

Gene: Blizzard_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Blizzard_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Blondies_13 Start: 7911, Stop: 8756, Start Num: 44

Candidate Starts for Blondies_13:

(21, 7794), (30, 7854), (Start: 44 @7911 has 243 MA's), (51, 7944), (79, 8130), (92, 8202), (133, 8403), (137, 8418), (144, 8451), (154, 8496), (181, 8682), (182, 8688),

Gene: Bodacious_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for Bodacious_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (97, 8251), (98, 8254), (136, 8434), (166, 8608), (170, 8638), (179, 8695),

Gene: Boiiii_18 Start: 10546, Stop: 11157, Start Num: 36

Candidate Starts for Boiiii_18:

(Start: 36 @10546 has 102 MA's), (49, 10588), (74, 10711), (78, 10765), (86, 10822), (90, 10837), (102, 10921), (103, 10927), (111, 10966), (114, 10978), (120, 11005), (129, 11050), (132, 11065), (139, 11089), (150, 11146),

Gene: Boilgate_15 Start: 10475, Stop: 11086, Start Num: 39

Candidate Starts for Boilgate_15:

(26, 10436), (Start: 39 @10475 has 133 MA's), (54, 10541), (76, 10658), (77, 10679), (78, 10691), (86, 10748), (90, 10763), (92, 10778), (95, 10808), (102, 10847), (111, 10892), (114, 10904), (116, 10919), (129, 10976), (132, 10991), (139, 11015), (140, 11018),

Gene: BoostSeason_14 Start: 8528, Stop: 9151, Start Num: 34

Candidate Starts for BoostSeason_14:

(22, 8462), (Start: 34 @8528 has 2 MA's), (48, 8576), (49, 8585), (75, 8723), (86, 8819), (90, 8834), (92, 8849), (95, 8879), (102, 8918), (103, 8924), (104, 8927), (111, 8963), (114, 8975), (116, 8990), (129, 9047), (132, 9062), (139, 9086),

Gene: Bradissa_14 Start: 8715, Stop: 9560, Start Num: 44

Candidate Starts for Bradissa_14:

(Start: 44 @8715 has 243 MA's), (63, 8796), (111, 9105), (113, 9114), (144, 9255), (163, 9372), (167, 9396), (176, 9447),

Gene: Brahms_11 Start: 8096, Stop: 8680, Start Num: 44

Candidate Starts for Brahms_11:

(Start: 44 @8096 has 243 MA's), (46, 8102), (49, 8117), (50, 8123), (75, 8255), (95, 8408), (97, 8414), (102, 8447), (117, 8522), (119, 8528), (121, 8534),

Gene: BritBrat_14 Start: 8717, Stop: 9562, Start Num: 44

Candidate Starts for BritBrat_14:

(Start: 44 @8717 has 243 MA's), (60, 8786), (63, 8798), (102, 9062), (111, 9107), (113, 9116), (131, 9203), (144, 9257),

Gene: BrotherBLo_15 Start: 10803, Stop: 11711, Start Num: 44

Candidate Starts for BrotherBLo_15:

(Start: 44 @10803 has 243 MA's), (75, 10959), (89, 11064), (98, 11121), (136, 11301), (140, 11316), (161, 11451), (166, 11475), (170, 11505), (179, 11562),

Gene: BruceB_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for BruceB_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Bryler_17 Start: 9523, Stop: 10137, Start Num: 36

Candidate Starts for Bryler_17:

(Start: 36 @9523 has 102 MA's), (40, 9535), (49, 9568), (78, 9745), (86, 9802), (90, 9817), (92, 9832), (95, 9862), (102, 9901), (103, 9907), (120, 9985), (132, 10045), (140, 10072),

Gene: Brynnie_13 Start: 8937, Stop: 9767, Start Num: 44

Candidate Starts for Brynnie_13:

(Start: 44 @8937 has 243 MA's), (95, 9246), (107, 9312), (120, 9369), (136, 9441), (141, 9474), (151, 9528), (160, 9573), (172, 9648),

Gene: BubbaBear_12 Start: 8314, Stop: 9111, Start Num: 44

Candidate Starts for BubbaBear_12:

(4, 8026), (8, 8107), (9, 8110), (10, 8128), (Start: 39 @8284 has 133 MA's), (Start: 44 @8314 has 243 MA's), (46, 8320), (74, 8461), (75, 8476), (96, 8632), (102, 8668), (111, 8713), (121, 8755), (159, 8956),

Gene: Buldak_12 Start: 8598, Stop: 9185, Start Num: 44

Candidate Starts for Buldak_12:

(Start: 44 @8598 has 243 MA's), (50, 8625), (69, 8706), (102, 8946), (113, 9000), (117, 9021), (121, 9033),

Gene: Burnsey_13 Start: 7940, Stop: 8782, Start Num: 44

Candidate Starts for Burnsey_13:

(Start: 44 @7940 has 243 MA's), (51, 7973), (79, 8159), (92, 8231), (111, 8330), (133, 8432), (136, 8441), (137, 8447), (144, 8480), (153, 8516), (154, 8525), (181, 8711), (182, 8717),

Gene: Burritobowl_12 Start: 8347, Stop: 9144, Start Num: 44

Candidate Starts for Burritobowl_12:

(1, 7990), (3, 8047), (9, 8143), (10, 8161), (12, 8170), (23, 8263), (Start: 39 @8317 has 133 MA's), (Start: 44 @8347 has 243 MA's), (46, 8353), (74, 8494), (75, 8509), (102, 8701), (121, 8788), (159, 8989), (175, 9085),

Gene: Button_14 Start: 7947, Stop: 8795, Start Num: 44

Candidate Starts for Button_14:

(Start: 44 @7947 has 243 MA's), (51, 7980), (70, 8076), (79, 8166), (103, 8307), (125, 8412), (127, 8424), (129, 8430), (133, 8448), (136, 8457), (137, 8463), (153, 8532), (157, 8556), (169, 8625), (170, 8634),

Gene: Buttrmlkdreams_13 Start: 7910, Stop: 8755, Start Num: 44

Candidate Starts for Buttrmlkdreams_13:

(21, 7793), (30, 7853), (Start: 44 @7910 has 243 MA's), (51, 7943), (79, 8129), (92, 8201), (133, 8402), (137, 8417), (144, 8450), (154, 8495), (181, 8681), (182, 8687),

Gene: CLED96_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for CLED96_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: CREW_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for CREW_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063),

(139, 11087), (150, 11144),

Gene: Cain_17 Start: 9511, Stop: 10125, Start Num: 36

Candidate Starts for Cain_17:

(Start: 36 @9511 has 102 MA's), (40, 9523), (49, 9556), (78, 9733), (86, 9790), (90, 9805), (92, 9820), (95, 9850), (102, 9889), (103, 9895), (120, 9973), (132, 10033), (140, 10060),

Gene: CallaLilly_19 Start: 10471, Stop: 11082, Start Num: 36

Candidate Starts for CallaLilly_19:

(Start: 36 @10471 has 102 MA's), (49, 10513), (74, 10636), (78, 10690), (86, 10747), (90, 10762), (102, 10846), (103, 10852), (111, 10891), (114, 10903), (120, 10930), (129, 10975), (132, 10990), (139, 11014),

Gene: CallieOMalley_15 Start: 10835, Stop: 11743, Start Num: 44

Candidate Starts for CallieOMalley_15:

(Start: 44 @10835 has 243 MA's), (49, 10856), (75, 10991), (98, 11153), (102, 11183), (129, 11303), (135, 11330), (136, 11333), (140, 11348), (150, 11411), (152, 11429), (166, 11507), (170, 11537), (171, 11543), (178, 11588), (179, 11594),

Gene: Camara_12 Start: 8379, Stop: 8960, Start Num: 44

Candidate Starts for Camara_12:

(Start: 44 @8379 has 243 MA's), (49, 8400), (95, 8688), (111, 8772), (120, 8811), (121, 8814), (126, 8847), (141, 8916), (148, 8946),

Gene: Cambiare_14 Start: 10474, Stop: 11094, Start Num: 39

Candidate Starts for Cambiare_14:

(Start: 39 @10474 has 133 MA's), (53, 10549), (65, 10606), (74, 10648), (75, 10663), (86, 10759), (90, 10774), (94, 10798), (95, 10819), (102, 10858), (106, 10882), (111, 10903), (116, 10930), (123, 10960), (132, 11002), (139, 11026), (143, 11056),

Gene: Camri_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Camri_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: CanesSauce_13 Start: 7954, Stop: 8799, Start Num: 44

Candidate Starts for CanesSauce_13:

(30, 7897), (Start: 44 @7954 has 243 MA's), (51, 7987), (79, 8173), (92, 8245), (133, 8446), (137, 8461), (144, 8494), (153, 8530), (154, 8539), (159, 8569), (181, 8725), (182, 8731),

Gene: Canowicakte_15 Start: 10870, Stop: 11778, Start Num: 44

Candidate Starts for Canowicakte_15:

(Start: 44 @10870 has 243 MA's), (49, 10891), (75, 11026), (98, 11188), (102, 11218), (129, 11338), (135, 11365), (136, 11368), (140, 11383), (150, 11446), (152, 11464), (166, 11542), (170, 11572), (171, 11578), (178, 11623), (179, 11629),

Gene: Capricorn_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Capricorn_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Carpal_15 Start: 10803, Stop: 11711, Start Num: 44

Candidate Starts for Carpal_15:

(Start: 44 @10803 has 243 MA's), (75, 10959), (89, 11064), (98, 11121), (136, 11301), (140, 11316), (166, 11475), (170, 11505), (179, 11562),

Gene: Carsonalex_14 Start: 7996, Stop: 8838, Start Num: 44

Candidate Starts for Carsonalex_14:

(Start: 44 @7996 has 243 MA's), (51, 8029), (79, 8215), (92, 8287), (111, 8386), (133, 8488), (136, 8497), (137, 8503), (144, 8536), (153, 8572), (154, 8581), (181, 8767), (182, 8773),

Gene: CaseJules_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for CaseJules_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Cashington_12 Start: 8337, Stop: 9134, Start Num: 44

Candidate Starts for Cashington_12:

(3, 8037), (10, 8151), (23, 8253), (Start: 39 @8307 has 133 MA's), (Start: 44 @8337 has 243 MA's), (46, 8343), (74, 8484), (75, 8499), (96, 8655), (102, 8691), (111, 8736), (121, 8778), (159, 8979),

Gene: Cashline_14 Start: 8571, Stop: 9416, Start Num: 44

Candidate Starts for Cashline_14:

(13, 8409), (Start: 44 @8571 has 243 MA's), (60, 8640), (63, 8652), (102, 8916), (111, 8961), (113, 8970), (115, 8982), (131, 9057), (144, 9111),

Gene: CassieYates_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for CassieYates_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Cedasite_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Cedasite_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Celaena_12 Start: 8400, Stop: 8990, Start Num: 44

Candidate Starts for Celaena_12:

(Start: 44 @8400 has 243 MA's), (46, 8406), (49, 8421), (55, 8448), (71, 8526), (74, 8544), (75, 8559), (95, 8712), (97, 8718), (102, 8751), (103, 8757), (111, 8796), (120, 8835), (124, 8856),

Gene: Chance64_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Chance64_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Chancellor_19 Start: 11727, Stop: 12338, Start Num: 39

Candidate Starts for Chancellor_19:

(Start: 39 @11727 has 133 MA's), (54, 11793), (56, 11799), (65, 11847), (75, 11904), (76, 11910), (77, 11931), (78, 11943), (86, 12000), (90, 12015), (102, 12099), (103, 12105), (111, 12144), (114, 12156),

(116, 12171), (129, 12228), (132, 12243), (139, 12267), (143, 12297),

Gene: CheetoDust_18 Start: 10521, Stop: 11132, Start Num: 36

Candidate Starts for CheetoDust_18:

(Start: 36 @10521 has 102 MA's), (49, 10563), (74, 10686), (78, 10740), (86, 10797), (90, 10812), (100, 10881), (102, 10896), (103, 10902), (111, 10941), (120, 10980), (129, 11025), (132, 11040), (139, 11064), (150, 11121),

Gene: Cheetobro_19 Start: 11727, Stop: 12338, Start Num: 39

Candidate Starts for Cheetobro_19:

(Start: 39 @11727 has 133 MA's), (54, 11793), (56, 11799), (65, 11847), (75, 11904), (76, 11910), (77, 11931), (78, 11943), (86, 12000), (90, 12015), (102, 12099), (103, 12105), (111, 12144), (114, 12156), (116, 12171), (129, 12228), (132, 12243), (139, 12267), (143, 12297),

Gene: Cherrybomb426_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Cherrybomb426_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: CherryonLim_14 Start: 8452, Stop: 9291, Start Num: 44

Candidate Starts for CherryonLim_14:

(21, 8338), (30, 8398), (Start: 44 @8452 has 243 MA's), (51, 8485), (79, 8671), (84, 8707), (91, 8731), (127, 8920), (133, 8944), (136, 8953), (137, 8959), (144, 8992), (149, 9022), (182, 9229),

Gene: ChewChew_11 Start: 7935, Stop: 8843, Start Num: 44

Candidate Starts for ChewChew_11:

(Start: 44 @7935 has 243 MA's), (75, 8091), (97, 8250), (98, 8253), (136, 8433), (166, 8607), (170, 8637), (179, 8694),

Gene: Chickaboom_12 Start: 8482, Stop: 9312, Start Num: 44

Candidate Starts for Chickaboom_12:

(Start: 44 @8482 has 243 MA's), (95, 8791), (107, 8857), (120, 8914), (136, 8986), (141, 9019), (151, 9073), (160, 9118), (172, 9193),

Gene: ChickenTender_15 Start: 7982, Stop: 8830, Start Num: 44

Candidate Starts for ChickenTender_15:

(Start: 44 @7982 has 243 MA's), (51, 8015), (79, 8201), (92, 8273), (133, 8474), (136, 8483), (137, 8489), (144, 8522), (153, 8558), (154, 8567), (174, 8687), (181, 8756), (182, 8762),

Gene: ChiliPepper_12 Start: 8556, Stop: 9350, Start Num: 44

Candidate Starts for ChiliPepper_12:

(Start: 44 @8556 has 243 MA's), (46, 8562), (60, 8631), (74, 8703), (75, 8718), (102, 8910), (111, 8955), (121, 8997), (123, 9012), (147, 9129), (159, 9195), (177, 9303),

Gene: ChocoMunchkin_13 Start: 7954, Stop: 8799, Start Num: 44

Candidate Starts for ChocoMunchkin_13:

(30, 7897), (Start: 44 @7954 has 243 MA's), (51, 7987), (79, 8173), (92, 8245), (133, 8446), (137, 8461), (144, 8494), (153, 8530), (154, 8539), (159, 8569), (181, 8725), (182, 8731),

Gene: Cholula_15 Start: 10848, Stop: 11756, Start Num: 44

Candidate Starts for Cholula_15:

(Start: 44 @10848 has 243 MA's), (75, 11004), (89, 11109), (98, 11166), (136, 11346), (140, 11361), (161, 11496), (166, 11520), (170, 11550), (179, 11607),

Gene: Chridison_11 Start: 7980, Stop: 8885, Start Num: 44

Candidate Starts for Chridison_11:

(Start: 44 @7980 has 243 MA's), (75, 8136), (85, 8226), (98, 8298), (112, 8367), (136, 8475), (140, 8490), (166, 8649), (170, 8679), (173, 8697), (179, 8736), (184, 8796), (186, 8814),

Gene: Chris_17 Start: 9487, Stop: 10098, Start Num: 36

Candidate Starts for Chris_17:

(Start: 36 @9487 has 102 MA's), (49, 9529), (78, 9706), (86, 9763), (90, 9778), (95, 9823), (102, 9862), (103, 9868), (123, 9964), (132, 10006), (139, 10030), (143, 10060), (147, 10081),

Gene: Christian_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for Christian_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (97, 8251), (98, 8254), (101, 8272), (136, 8434), (166, 8608), (170, 8638), (179, 8695),

Gene: Clayda5_11 Start: 8096, Stop: 8680, Start Num: 44

Candidate Starts for Clayda5_11:

(Start: 44 @8096 has 243 MA's), (46, 8102), (49, 8117), (50, 8123), (75, 8255), (95, 8408), (97, 8414), (102, 8447), (117, 8522), (119, 8528), (121, 8534),

Gene: Cleo_13 Start: 8168, Stop: 9007, Start Num: 44

Candidate Starts for Cleo_13:

(Start: 44 @8168 has 243 MA's), (51, 8201), (72, 8294), (88, 8429), (92, 8450), (93, 8453), (113, 8558), (133, 8651), (136, 8660), (137, 8666), (146, 8714), (165, 8804), (166, 8807), (183, 8942), (188, 8990),

Gene: CliffHanger_13 Start: 8293, Stop: 8880, Start Num: 44

Candidate Starts for CliffHanger_13:

(Start: 44 @8293 has 243 MA's), (46, 8299), (49, 8314), (74, 8434), (75, 8449), (102, 8641), (118, 8719),

Gene: Clipper_20 Start: 10521, Stop: 11132, Start Num: 36

Candidate Starts for Clipper_20:

(Start: 36 @10521 has 102 MA's), (49, 10563), (74, 10686), (78, 10740), (86, 10797), (90, 10812), (102, 10896), (103, 10902), (111, 10941), (120, 10980), (129, 11025), (132, 11040), (139, 11064), (150, 11121),

Gene: Coleslaw_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Coleslaw_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Collard_16 Start: 10585, Stop: 11196, Start Num: 39

Candidate Starts for Collard_16:

(Start: 39 @10585 has 133 MA's), (49, 10630), (78, 10807), (86, 10864), (90, 10879), (92, 10894), (102, 10963), (103, 10969), (111, 11008), (116, 11035), (129, 11092), (132, 11107), (139, 11131), (143, 11161),

Gene: Coltrane_11 Start: 8096, Stop: 8680, Start Num: 44

Candidate Starts for Coltrane_11:

(Start: 44 @8096 has 243 MA's), (46, 8102), (49, 8117), (50, 8123), (75, 8255), (95, 8408), (97, 8414), (102, 8447), (117, 8522), (119, 8528), (121, 8534),

Gene: Colusalem_13 Start: 8803, Stop: 9384, Start Num: 44

Candidate Starts for Colusalem_13:

(Start: 44 @8803 has 243 MA's), (49, 8824), (68, 8911), (75, 8959), (95, 9112), (111, 9196), (119, 9232), (121, 9238), (126, 9271), (141, 9340),

Gene: Confidence_14 Start: 8711, Stop: 9556, Start Num: 44

Candidate Starts for Confidence_14:

(Start: 44 @8711 has 243 MA's), (60, 8780), (63, 8792), (102, 9056), (111, 9101), (113, 9110), (131, 9197), (144, 9251),

Gene: Coral_13 Start: 8803, Stop: 9384, Start Num: 44

Candidate Starts for Coral_13:

(Start: 44 @8803 has 243 MA's), (49, 8824), (68, 8911), (75, 8959), (95, 9112), (111, 9196), (119, 9232), (121, 9238), (126, 9271), (141, 9340),

Gene: Cote_14 Start: 8964, Stop: 9545, Start Num: 44

Candidate Starts for Cote_14:

(Start: 44 @8964 has 243 MA's), (49, 8985), (68, 9072), (75, 9120), (95, 9273), (111, 9357), (119, 9393), (121, 9399), (126, 9432), (141, 9501),

Gene: Cozz_13 Start: 7940, Stop: 8782, Start Num: 44

Candidate Starts for Cozz_13:

(Start: 44 @7940 has 243 MA's), (51, 7973), (79, 8159), (92, 8231), (106, 8309), (111, 8330), (116, 8357), (133, 8432), (136, 8441), (137, 8447), (144, 8480), (153, 8516), (154, 8525), (181, 8711), (182, 8717),

Gene: Crespo_13 Start: 9855, Stop: 10469, Start Num: 39

Candidate Starts for Crespo_13:

(Start: 39 @9855 has 133 MA's), (49, 9900), (53, 9924), (70, 10002), (74, 10023), (75, 10038), (86, 10134), (90, 10149), (94, 10173), (95, 10194), (102, 10233), (106, 10257), (108, 10266), (111, 10278), (123, 10335), (129, 10362), (132, 10377), (139, 10401),

Gene: CrimD_18 Start: 10473, Stop: 11087, Start Num: 36

Candidate Starts for CrimD_18:

(Start: 36 @10473 has 102 MA's), (49, 10518), (74, 10641), (78, 10695), (86, 10752), (90, 10767), (102, 10851), (103, 10857), (111, 10896), (114, 10908), (120, 10935), (129, 10980), (132, 10995), (139, 11019), (150, 11076),

Gene: CristinaYang_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for CristinaYang_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (97, 8251), (98, 8254), (101, 8272), (136, 8434), (166, 8608), (170, 8638), (179, 8695),

Gene: CroZenni_12 Start: 8320, Stop: 9117, Start Num: 44

Candidate Starts for CroZenni_12:

(9, 8116), (10, 8134), (Start: 39 @8290 has 133 MA's), (Start: 44 @8320 has 243 MA's), (46, 8326), (74, 8467), (75, 8482), (102, 8674), (121, 8761), (159, 8962), (175, 9058),

Gene: CupcakePrincess_12 Start: 8360, Stop: 9157, Start Num: 44

Candidate Starts for CupcakePrincess_12:

(9, 8156), (10, 8174), (Start: 39 @8330 has 133 MA's), (Start: 44 @8360 has 243 MA's), (46, 8366), (74, 8507), (75, 8522), (102, 8714), (121, 8801), (159, 9002),

Gene: Curiosium_19 Start: 9949, Stop: 10563, Start Num: 39

Candidate Starts for Curiosium_19:

(Start: 39 @9949 has 133 MA's), (49, 9994), (75, 10132), (78, 10171), (86, 10228), (92, 10258), (95, 10288), (102, 10327), (104, 10336), (111, 10372), (129, 10456), (139, 10495), (143, 10525), (147, 10546),

Gene: DMoney_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for DMoney_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: DNAIII_0013 Start: 9863, Stop: 10477, Start Num: 39

Candidate Starts for DNAIII_0013:

(Start: 39 @9863 has 133 MA's), (49, 9908), (53, 9932), (70, 10010), (74, 10031), (75, 10046), (86, 10142), (90, 10157), (94, 10181), (95, 10202), (102, 10241), (106, 10265), (108, 10274), (111, 10286), (123, 10343), (129, 10370), (132, 10385), (139, 10409),

Gene: Dadosky_16 Start: 10501, Stop: 11112, Start Num: 39

Candidate Starts for Dadosky_16:

(Start: 39 @10501 has 133 MA's), (49, 10546), (86, 10780), (90, 10795), (92, 10810), (102, 10879), (103, 10885), (111, 10924), (114, 10936), (116, 10951), (129, 11008), (132, 11023), (139, 11047), (143, 11077),

Gene: Daiboju_11 Start: 7981, Stop: 8886, Start Num: 44

Candidate Starts for Daiboju_11:

(Start: 44 @7981 has 243 MA's), (75, 8137), (82, 8203), (89, 8242), (95, 8290), (98, 8299), (136, 8476), (152, 8572), (166, 8650), (170, 8680), (179, 8737),

Gene: Dalmuri_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Dalmuri_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Daob_14 Start: 8967, Stop: 9548, Start Num: 44

Candidate Starts for Daob_14:

(Start: 44 @8967 has 243 MA's), (49, 8988), (68, 9075), (75, 9123), (95, 9276), (111, 9360), (119, 9396), (121, 9402), (126, 9435), (141, 9504),

Gene: Darionha_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Darionha_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: DarthP_17 Start: 10531, Stop: 11145, Start Num: 39

Candidate Starts for DarthP_17:

(Start: 39 @10531 has 133 MA's), (Start: 44 @10555 has 243 MA's), (49, 10576), (76, 10720), (78, 10753), (86, 10810), (90, 10825), (102, 10909), (103, 10915), (111, 10954), (114, 10966), (120,

10993), (132, 11053), (139, 11077), (143, 11107),

Gene: Dartin_18 Start: 9573, Stop: 10184, Start Num: 39

Candidate Starts for Dartin_18:

(Start: 39 @9573 has 133 MA's), (49, 9615), (75, 9753), (78, 9792), (86, 9849), (90, 9864), (95, 9909), (102, 9948), (103, 9954), (104, 9957), (114, 10005), (116, 10020), (129, 10077),

Gene: Deby_18 Start: 10475, Stop: 11089, Start Num: 36

Candidate Starts for Deby_18:

(Start: 36 @10475 has 102 MA's), (49, 10520), (74, 10643), (78, 10697), (86, 10754), (90, 10769), (102, 10853), (103, 10859), (111, 10898), (114, 10910), (120, 10937), (129, 10982), (132, 10997), (139, 11021), (150, 11078),

Gene: Devera_18 Start: 10492, Stop: 11106, Start Num: 36

Candidate Starts for Devera_18:

(Start: 36 @10492 has 102 MA's), (49, 10537), (74, 10660), (78, 10714), (86, 10771), (90, 10786), (95, 10831), (102, 10870), (103, 10876), (111, 10915), (114, 10927), (120, 10954), (129, 10999), (132, 11014), (139, 11038),

Gene: DickRichards_12 Start: 8814, Stop: 9611, Start Num: 44

Candidate Starts for DickRichards_12:

(9, 8610), (10, 8628), (Start: 39 @8784 has 133 MA's), (Start: 44 @8814 has 243 MA's), (46, 8820), (74, 8961), (75, 8976), (102, 9168), (121, 9255), (159, 9456), (175, 9552),

Gene: Didgeridoo_13 Start: 8549, Stop: 9343, Start Num: 44

Candidate Starts for Didgeridoo_13:

(Start: 44 @8549 has 243 MA's), (74, 8696), (75, 8711), (102, 8903), (111, 8948), (121, 8990), (159, 9188),

Gene: Dino_15 Start: 10802, Stop: 11710, Start Num: 44

Candidate Starts for Dino_15:

(Start: 44 @10802 has 243 MA's), (75, 10958), (89, 11063), (98, 11120), (136, 11300), (140, 11315), (161, 11450), (166, 11474), (170, 11504), (179, 11561),

Gene: DirtyBubble_12 Start: 8579, Stop: 9376, Start Num: 44

Candidate Starts for DirtyBubble_12:

(Start: 44 @8579 has 243 MA's), (46, 8585), (75, 8744), (97, 8903), (102, 8936), (111, 8981), (147, 9155), (159, 9221),

Gene: DismalFunk_14 Start: 8532, Stop: 9146, Start Num: 35

Candidate Starts for DismalFunk_14:

(Start: 35 @8532 has 8 MA's), (48, 8571), (49, 8580), (86, 8814), (90, 8829), (92, 8844), (95, 8874), (102, 8913), (103, 8919), (110, 8955), (114, 8970), (120, 8997), (129, 9042), (132, 9057), (139, 9081),

Gene: DismalStressor_14 Start: 8532, Stop: 9146, Start Num: 35

Candidate Starts for DismalStressor_14:

(Start: 35 @8532 has 8 MA's), (48, 8571), (49, 8580), (86, 8814), (90, 8829), (92, 8844), (95, 8874), (102, 8913), (103, 8919), (110, 8955), (114, 8970), (120, 8997), (129, 9042), (132, 9057), (139, 9081),

Gene: Dismas_12 Start: 8556, Stop: 9350, Start Num: 44

Candidate Starts for Dismas_12:

(Start: 44 @8556 has 243 MA's), (46, 8562), (60, 8631), (74, 8703), (75, 8718), (102, 8910), (111, 8955), (121, 8997), (123, 9012), (147, 9129), (159, 9195), (177, 9303),

Gene: Dole_18 Start: 10494, Stop: 11108, Start Num: 36

Candidate Starts for Dole_18:

(Start: 36 @10494 has 102 MA's), (49, 10539), (74, 10662), (78, 10716), (86, 10773), (90, 10788), (95, 10833), (102, 10872), (103, 10878), (111, 10917), (114, 10929), (120, 10956), (129, 11001), (132, 11016), (139, 11040),

Gene: Doobus_12 Start: 8551, Stop: 9348, Start Num: 44

Candidate Starts for Doobus_12:

(3, 8251), (9, 8347), (10, 8365), (23, 8467), (Start: 39 @8521 has 133 MA's), (Start: 44 @8551 has 243 MA's), (46, 8557), (74, 8698), (75, 8713), (102, 8905), (121, 8992), (159, 9193), (175, 9289),

Gene: DrHayes_18 Start: 10446, Stop: 11060, Start Num: 36

Candidate Starts for DrHayes_18:

(Start: 36 @10446 has 102 MA's), (41, 10464), (49, 10491), (78, 10668), (86, 10725), (90, 10740), (92, 10755), (95, 10785), (102, 10824), (103, 10830), (111, 10869), (114, 10881), (120, 10908), (129, 10953), (132, 10968), (139, 10992),

Gene: DrRobert_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for DrRobert_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (97, 8251), (98, 8254), (101, 8272), (136, 8434), (161, 8584), (166, 8608), (170, 8638), (179, 8695),

Gene: Dre3_13 Start: 8115, Stop: 8954, Start Num: 44

Candidate Starts for Dre3_13:

(Start: 44 @8115 has 243 MA's), (51, 8148), (88, 8376), (92, 8397), (93, 8400), (113, 8505), (127, 8574), (133, 8598), (136, 8607), (137, 8613), (146, 8661), (165, 8751), (166, 8754), (183, 8889), (188, 8937),

Gene: DreamTeam_11 Start: 8003, Stop: 8911, Start Num: 44

Candidate Starts for DreamTeam_11:

(Start: 44 @8003 has 243 MA's), (75, 8159), (89, 8264), (95, 8312), (97, 8318), (98, 8321), (136, 8501), (138, 8510), (152, 8597), (156, 8621), (166, 8675), (170, 8705), (173, 8723), (179, 8762),

Gene: Durfee_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Durfee_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: ECartman_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for ECartman_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: EMSquaredA_14 Start: 8717, Stop: 9562, Start Num: 44

Candidate Starts for EMSquaredA_14:

(Start: 44 @8717 has 243 MA's), (60, 8786), (63, 8798), (102, 9062), (111, 9107), (113, 9116), (131, 9203), (144, 9257),

Gene: Eden_11 Start: 8192, Stop: 8782, Start Num: 44

Candidate Starts for Eden_11:

(14, 8039), (16, 8051), (20, 8078), (Start: 44 @8192 has 243 MA's), (49, 8213), (55, 8240), (74, 8336), (75, 8351), (102, 8543), (118, 8621), (119, 8624), (121, 8630), (136, 8699),

Gene: Edugator_15 Start: 10501, Stop: 11112, Start Num: 39

Candidate Starts for Edugator_15:

(Start: 39 @10501 has 133 MA's), (49, 10546), (86, 10780), (90, 10795), (92, 10810), (102, 10879), (103, 10885), (111, 10924), (116, 10951), (129, 11008), (132, 11023), (139, 11047), (143, 11077),

Gene: Eesa_13 Start: 8964, Stop: 9548, Start Num: 44

Candidate Starts for Eesa_13:

(Start: 44 @8964 has 243 MA's), (95, 9273), (126, 9432), (141, 9501), (145, 9513),

Gene: Efra2_18 Start: 9439, Stop: 10053, Start Num: 39

Candidate Starts for Efra2_18:

(Start: 39 @9439 has 133 MA's), (75, 9622), (78, 9661), (86, 9718), (92, 9748), (95, 9778), (102, 9817), (103, 9823), (111, 9862), (114, 9874), (129, 9946), (139, 9985), (143, 10015), (147, 10036),

Gene: Ekdilam_15 Start: 10249, Stop: 10860, Start Num: 39

Candidate Starts for Ekdilam_15:

(Start: 39 @10249 has 133 MA's), (49, 10291), (76, 10435), (78, 10468), (86, 10525), (90, 10540), (102, 10624), (103, 10630), (111, 10669), (114, 10681), (132, 10768), (139, 10792), (143, 10822),

Gene: Elinal_14 Start: 7707, Stop: 8546, Start Num: 44

Candidate Starts for Elinal_14:

(21, 7593), (30, 7653), (Start: 44 @7707 has 243 MA's), (51, 7740), (79, 7926), (91, 7986), (92, 7998), (113, 8106), (133, 8199), (136, 8208), (137, 8214), (144, 8247), (149, 8277), (159, 8322), (174, 8412),

Gene: Elliott_13 Start: 7939, Stop: 8781, Start Num: 44

Candidate Starts for Elliott_13:

(Start: 44 @7939 has 243 MA's), (51, 7972), (79, 8158), (92, 8230), (111, 8329), (133, 8431), (136, 8440), (137, 8446), (144, 8479), (153, 8515), (154, 8524), (181, 8710), (182, 8716),

Gene: Ellie_15 Start: 10291, Stop: 10902, Start Num: 39

Candidate Starts for Ellie_15:

(Start: 18 @10186 has 1 MA's), (25, 10249), (28, 10258), (Start: 39 @10291 has 133 MA's), (49, 10333), (74, 10456), (76, 10477), (78, 10510), (86, 10567), (90, 10582), (102, 10666), (103, 10672), (111, 10711), (114, 10723), (120, 10750), (132, 10810), (139, 10834),

Gene: Elva_13 Start: 8634, Stop: 9431, Start Num: 44

Candidate Starts for Elva_13:

(Start: 44 @8634 has 243 MA's), (46, 8640), (61, 8718), (74, 8784), (75, 8799), (97, 8958), (102, 8991), (111, 9036), (121, 9078), (159, 9276), (177, 9384),

Gene: Emalyn_12 Start: 7661, Stop: 8509, Start Num: 44

Candidate Starts for Emalyn_12:

(30, 7604), (Start: 44 @7661 has 243 MA's), (51, 7694), (79, 7880), (92, 7952), (125, 8117), (133, 8153), (136, 8162), (137, 8168), (144, 8201), (153, 8237), (154, 8246), (181, 8432), (182, 8438),

Gene: Emerson_18 Start: 10504, Stop: 11115, Start Num: 36

Candidate Starts for Emerson_18:

(Start: 36 @10504 has 102 MA's), (49, 10546), (78, 10723), (86, 10780), (90, 10795), (102, 10879), (103, 10885), (111, 10924), (114, 10936), (120, 10963), (129, 11008), (132, 11023), (139, 11047), (150, 11104),

Gene: EnalisNailo_14 Start: 8717, Stop: 9562, Start Num: 44

Candidate Starts for EnalisNailo_14:

(Start: 44 @8717 has 243 MA's), (63, 8798), (111, 9107), (113, 9116), (144, 9257), (163, 9374), (167, 9398), (176, 9449),

Gene: Enkosi_14 Start: 9777, Stop: 10388, Start Num: 36

Candidate Starts for Enkosi_14:

(Start: 36 @9777 has 102 MA's), (Start: 44 @9798 has 243 MA's), (49, 9819), (74, 9942), (75, 9957), (78, 9996), (86, 10053), (90, 10068), (95, 10113), (102, 10152), (103, 10158), (111, 10197), (114, 10209), (129, 10281), (132, 10296), (139, 10320), (143, 10350),

Gene: Eponine_19 Start: 11592, Stop: 12203, Start Num: 39

Candidate Starts for Eponine_19:

(Start: 39 @11592 has 133 MA's), (54, 11658), (56, 11664), (65, 11712), (75, 11769), (76, 11775), (77, 11796), (78, 11808), (86, 11865), (90, 11880), (92, 11895), (102, 11964), (103, 11970), (116, 12036), (129, 12093), (132, 12108), (139, 12132), (143, 12162),

Gene: EstebanJulior_11 Start: 7982, Stop: 8890, Start Num: 44

Candidate Starts for EstebanJulior_11:

(32, 7931), (33, 7934), (Start: 44 @7982 has 243 MA's), (49, 8003), (75, 8138), (89, 8243), (98, 8300), (130, 8453), (136, 8480), (149, 8555), (152, 8576), (166, 8654), (170, 8684), (171, 8690), (179, 8741),

Gene: Eula_12 Start: 8321, Stop: 9118, Start Num: 44

Candidate Starts for Eula_12:

(10, 8135), (Start: 39 @8291 has 133 MA's), (Start: 44 @8321 has 243 MA's), (46, 8327), (74, 8468), (75, 8483), (102, 8675), (111, 8720), (121, 8762), (159, 8963),

Gene: Eunoia_11 Start: 7979, Stop: 8884, Start Num: 44

Candidate Starts for Eunoia_11:

(Start: 44 @7979 has 243 MA's), (69, 8090), (75, 8135), (98, 8297), (112, 8366), (135, 8471), (136, 8474), (140, 8489), (166, 8648), (170, 8678), (173, 8696), (179, 8735), (186, 8813),

Gene: FF47_15 Start: 9310, Stop: 9951, Start Num: 39

Candidate Starts for FF47_15:

(Start: 39 @9310 has 133 MA's), (48, 9343), (49, 9352), (66, 9436), (74, 9475), (75, 9490), (88, 9595), (92, 9616), (94, 9625), (95, 9646), (102, 9685), (106, 9709), (125, 9796), (129, 9814), (131, 9826), (134, 9835),

Gene: Feastonyeet_12 Start: 7726, Stop: 8565, Start Num: 44

Candidate Starts for Feastonyeet_12:

(21, 7612), (30, 7672), (Start: 44 @7726 has 243 MA's), (51, 7759), (79, 7945), (91, 8005), (92, 8017), (133, 8218), (136, 8227), (137, 8233), (144, 8266), (149, 8296), (159, 8341),

Gene: Fefferhead_17 Start: 10458, Stop: 11069, Start Num: 39

Candidate Starts for Fefferhead_17:

(Start: 18 @10353 has 1 MA's), (25, 10416), (28, 10425), (Start: 39 @10458 has 133 MA's), (49, 10500), (74, 10623), (76, 10644), (78, 10677), (86, 10734), (90, 10749), (102, 10833), (103, 10839), (111, 10878), (114, 10890), (120, 10917), (132, 10977), (139, 11001),

Gene: Feyre_16 Start: 10448, Stop: 11059, Start Num: 39

Candidate Starts for Feyre_16:

(Start: 39 @10448 has 133 MA's), (49, 10493), (58, 10535), (78, 10670), (86, 10727), (90, 10742), (92, 10757), (102, 10826), (103, 10832), (111, 10871), (114, 10883), (116, 10898), (125, 10937), (129, 10955), (132, 10970), (139, 10994), (143, 11024),

Gene: Finalfrontier_13 Start: 8833, Stop: 9630, Start Num: 44

Candidate Starts for Finalfrontier_13:

(9, 8629), (10, 8647), (Start: 39 @8803 has 133 MA's), (Start: 44 @8833 has 243 MA's), (46, 8839), (74, 8980), (75, 8995), (102, 9187), (121, 9274), (159, 9475),

Gene: Findley_14 Start: 8532, Stop: 9146, Start Num: 35

Candidate Starts for Findley_14:

(Start: 35 @8532 has 8 MA's), (48, 8571), (49, 8580), (86, 8814), (90, 8829), (92, 8844), (95, 8874), (102, 8913), (103, 8919), (110, 8955), (114, 8970), (120, 8997), (129, 9042), (132, 9057), (139, 9081),

Gene: Fionnbharth_19 Start: 11717, Stop: 12328, Start Num: 39

Candidate Starts for Fionnbharth_19:

(Start: 39 @11717 has 133 MA's), (54, 11783), (56, 11789), (65, 11837), (75, 11894), (76, 11900), (77, 11921), (78, 11933), (86, 11990), (90, 12005), (102, 12089), (103, 12095), (111, 12134), (114, 12146), (116, 12161), (129, 12218), (132, 12233), (139, 12257), (143, 12287),

Gene: FlagStaff_13 Start: 9947, Stop: 10567, Start Num: 39

Candidate Starts for FlagStaff_13:

(Start: 39 @9947 has 133 MA's), (53, 10022), (65, 10079), (74, 10121), (75, 10136), (86, 10232), (90, 10247), (94, 10271), (102, 10331), (106, 10355), (116, 10403), (123, 10433), (132, 10475), (139, 10499), (143, 10529),

Gene: FlameThrower_12 Start: 8288, Stop: 8878, Start Num: 44

Candidate Starts for FlameThrower_12:

(Start: 44 @8288 has 243 MA's), (46, 8294), (49, 8309), (55, 8336), (71, 8414), (74, 8432), (75, 8447), (95, 8600), (102, 8639), (103, 8645), (111, 8684), (120, 8723), (124, 8744),

Gene: Floral_14 Start: 8717, Stop: 9562, Start Num: 44

Candidate Starts for Floral_14:

(Start: 44 @8717 has 243 MA's), (60, 8786), (63, 8798), (102, 9062), (111, 9107), (113, 9116), (131, 9203), (144, 9257),

Gene: Fluke_15 Start: 10844, Stop: 11752, Start Num: 44

Candidate Starts for Fluke_15:

(Start: 44 @10844 has 243 MA's), (75, 11000), (89, 11105), (98, 11162), (136, 11342), (140, 11357), (166, 11516), (170, 11546), (179, 11603),

Gene: Franklin22_11 Start: 8165, Stop: 8755, Start Num: 44

Candidate Starts for Franklin22_11:

(19, 8033), (Start: 44 @8165 has 243 MA's), (46, 8171), (49, 8186), (69, 8276), (74, 8309), (75, 8324), (95, 8477), (102, 8516), (117, 8591), (119, 8597), (121, 8603),

Gene: Fribs8_14 Start: 8691, Stop: 9530, Start Num: 44

Candidate Starts for Fribs8_14:

(Start: 44 @8691 has 243 MA's), (51, 8724), (72, 8817), (88, 8952), (95, 9003), (113, 9081), (127, 9150), (133, 9174), (136, 9183), (137, 9189), (146, 9237), (166, 9330), (183, 9465), (185, 9483), (188, 9513),

Gene: Frosty24_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Frosty24_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: GTE2_11 Start: 7614, Stop: 8459, Start Num: 44

Candidate Starts for GTE2_11:

(6, 7392), (11, 7428), (13, 7449), (21, 7497), (30, 7557), (Start: 44 @7614 has 243 MA's), (51, 7647), (79, 7833), (92, 7905), (133, 8106), (137, 8121), (144, 8154), (153, 8190), (154, 8199), (159, 8229), (181, 8385), (182, 8391),

Gene: Gack_11 Start: 8231, Stop: 8821, Start Num: 44

Candidate Starts for Gack_11:

(19, 8099), (Start: 44 @8231 has 243 MA's), (46, 8237), (49, 8252), (74, 8375), (75, 8390), (95, 8543), (97, 8549), (102, 8582), (119, 8663), (147, 8801),

Gene: Galaxy_13 Start: 8808, Stop: 9638, Start Num: 44

Candidate Starts for Galaxy_13:

(Start: 44 @8808 has 243 MA's), (95, 9117), (107, 9183), (120, 9240), (126, 9276), (136, 9312), (141, 9345), (151, 9399), (160, 9444), (168, 9498), (172, 9519),

Gene: Ganymede_19 Start: 10521, Stop: 11135, Start Num: 36

Candidate Starts for Ganymede_19:

(Start: 36 @10521 has 102 MA's), (49, 10566), (74, 10689), (78, 10743), (86, 10800), (90, 10815), (102, 10899), (103, 10905), (111, 10944), (114, 10956), (120, 10983), (129, 11028), (132, 11043), (139, 11067),

Gene: Gengar_16 Start: 10555, Stop: 11166, Start Num: 39

Candidate Starts for Gengar_16:

(Start: 39 @10555 has 133 MA's), (49, 10600), (78, 10777), (86, 10834), (90, 10849), (92, 10864), (102, 10933), (103, 10939), (111, 10978), (114, 10990), (116, 11005), (125, 11044), (129, 11062), (132, 11077), (139, 11101), (143, 11131),

Gene: Geraldini_18 Start: 10524, Stop: 11135, Start Num: 36

Candidate Starts for Geraldini_18:

(Start: 36 @10524 has 102 MA's), (49, 10566), (74, 10689), (78, 10743), (86, 10800), (90, 10815), (102, 10899), (103, 10905), (111, 10944), (114, 10956), (120, 10983), (129, 11028), (132, 11043), (139, 11067),

Gene: GiKK_16 Start: 8250, Stop: 9098, Start Num: 44

Candidate Starts for GiKK_16:

(Start: 44 @8250 has 243 MA's), (51, 8283), (70, 8379), (79, 8469), (92, 8541), (95, 8571), (127, 8727), (129, 8733), (133, 8751), (137, 8766), (153, 8835), (169, 8928), (170, 8937),

Gene: Gibbous_13 Start: 8115, Stop: 8954, Start Num: 44

Candidate Starts for Gibbous_13:

(Start: 44 @8115 has 243 MA's), (51, 8148), (88, 8376), (92, 8397), (93, 8400), (113, 8505), (127, 8574), (133, 8598), (136, 8607), (137, 8613), (146, 8661), (165, 8751), (166, 8754), (183, 8889), (188, 8937),

Gene: Gideon_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Gideon_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Gisselle_11 Start: 8003, Stop: 8911, Start Num: 44

Candidate Starts for Gisselle_11:

(Start: 44 @8003 has 243 MA's), (75, 8159), (89, 8264), (95, 8312), (97, 8318), (98, 8321), (136, 8501), (138, 8510), (152, 8597), (156, 8621), (166, 8675), (170, 8705), (173, 8723), (179, 8762),

Gene: Glenn_15 Start: 10854, Stop: 11762, Start Num: 44

Candidate Starts for Glenn_15:

(Start: 44 @10854 has 243 MA's), (75, 11010), (89, 11115), (98, 11172), (136, 11352), (140, 11367), (161, 11502), (166, 11526), (170, 11556), (179, 11613),

Gene: Glotell_12 Start: 8378, Stop: 8959, Start Num: 44

Candidate Starts for Glotell_12:

(Start: 44 @8378 has 243 MA's), (49, 8399), (95, 8687), (111, 8771), (120, 8810), (121, 8813), (126, 8846), (141, 8915), (148, 8945),

Gene: GoldHunter_14 Start: 7940, Stop: 8782, Start Num: 44

Candidate Starts for GoldHunter_14:

(Start: 44 @7940 has 243 MA's), (51, 7973), (79, 8159), (92, 8231), (111, 8330), (133, 8432), (136, 8441), (137, 8447), (144, 8480), (153, 8516), (154, 8525), (181, 8711), (182, 8717),

Gene: GoldenAsh_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for GoldenAsh_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Gomashi_13 Start: 9855, Stop: 10469, Start Num: 39

Candidate Starts for Gomashi_13:

(Start: 39 @9855 has 133 MA's), (49, 9900), (53, 9924), (70, 10002), (74, 10023), (75, 10038), (86, 10134), (90, 10149), (94, 10173), (95, 10194), (102, 10233), (106, 10257), (108, 10266), (111, 10278), (123, 10335), (129, 10362), (132, 10377), (139, 10401),

Gene: Gravel_14 Start: 8960, Stop: 9544, Start Num: 44

Candidate Starts for Gravel_14:

(Start: 44 @8960 has 243 MA's), (126, 9428), (141, 9497), (145, 9509),

Gene: GreenHearts_15 Start: 10949, Stop: 11857, Start Num: 44

Candidate Starts for GreenHearts_15:

(15, 10799), (29, 10892), (Start: 44 @10949 has 243 MA's), (75, 11105), (89, 11210), (95, 11258), (136, 11447), (166, 11621), (170, 11651), (178, 11702), (179, 11708),

Gene: Greenhouse_15 Start: 10873, Stop: 11781, Start Num: 43

Candidate Starts for Greenhouse_15:

(Start: 43 @10873 has 9 MA's), (75, 11029), (89, 11134), (95, 11182), (136, 11371), (166, 11545), (170, 11575), (178, 11626), (179, 11632),

Gene: Grizzly_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Grizzly_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (92, 10163), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Guanica15_18 Start: 9455, Stop: 10069, Start Num: 39

Candidate Starts for Guanica15_18:

(Start: 39 @9455 has 133 MA's), (75, 9638), (78, 9677), (86, 9734), (92, 9764), (95, 9794), (102, 9833), (103, 9839), (111, 9878), (114, 9890), (129, 9962), (139, 10001), (143, 10031), (147, 10052),

Gene: Guillsminger_16 Start: 10530, Stop: 11141, Start Num: 39

Candidate Starts for Guillsminger_16:

(Start: 39 @10530 has 133 MA's), (49, 10575), (78, 10752), (86, 10809), (90, 10824), (92, 10839), (102, 10908), (103, 10914), (111, 10953), (114, 10965), (116, 10980), (125, 11019), (129, 11037), (132, 11052), (139, 11076), (143, 11106),

Gene: Halo_13 Start: 9849, Stop: 10463, Start Num: 39

Candidate Starts for Halo_13:

(Start: 39 @9849 has 133 MA's), (49, 9894), (53, 9918), (74, 10017), (75, 10032), (86, 10128), (90, 10143), (92, 10158), (94, 10167), (95, 10188), (102, 10227), (106, 10251), (108, 10260), (111, 10272), (123, 10329), (129, 10356), (132, 10371), (139, 10395),

Gene: HamCheese_12 Start: 8378, Stop: 8959, Start Num: 44

Candidate Starts for HamCheese_12:

(Start: 44 @8378 has 243 MA's), (49, 8399), (95, 8687), (111, 8771), (120, 8810), (121, 8813), (126, 8846), (141, 8915), (148, 8945),

Gene: Hammy_17 Start: 10525, Stop: 11139, Start Num: 39

Candidate Starts for Hammy_17:

(Start: 39 @10525 has 133 MA's), (Start: 44 @10549 has 243 MA's), (49, 10570), (76, 10714), (78, 10747), (86, 10804), (90, 10819), (102, 10903), (103, 10909), (111, 10948), (114, 10960), (120, 10987), (132, 11047), (139, 11071), (143, 11101),

Gene: HannahPhantana_14 Start: 8967, Stop: 9548, Start Num: 44

Candidate Starts for HannahPhantana_14:

(Start: 44 @8967 has 243 MA's), (49, 8988), (68, 9075), (75, 9123), (95, 9276), (111, 9360), (119, 9396), (121, 9402), (126, 9435), (141, 9504),

Gene: HeadNerd_11 Start: 7938, Stop: 8846, Start Num: 44

Candidate Starts for HeadNerd_11:

(Start: 44 @7938 has 243 MA's), (75, 8094), (89, 8199), (98, 8256), (136, 8436), (140, 8451), (152, 8532), (166, 8610), (170, 8640), (173, 8658), (179, 8697),

Gene: HedwigODU_18 Start: 10504, Stop: 11118, Start Num: 36

Candidate Starts for HedwigODU_18:

(Start: 36 @10504 has 102 MA's), (49, 10549), (74, 10672), (78, 10726), (86, 10783), (90, 10798), (102, 10882), (103, 10888), (111, 10927), (114, 10939), (120, 10966), (129, 11011), (132, 11026), (139, 11050), (150, 11107),

Gene: Heftyboy_16 Start: 10657, Stop: 11268, Start Num: 39

Candidate Starts for Heftyboy_16:

(Start: 39 @10657 has 133 MA's), (49, 10702), (78, 10879), (86, 10936), (90, 10951), (92, 10966), (102, 11035), (103, 11041), (111, 11080), (116, 11107), (125, 11146), (129, 11164), (132, 11179), (139, 11203), (143, 11233),

Gene: Herb_11 Start: 7981, Stop: 8886, Start Num: 44

Candidate Starts for Herb_11:

(Start: 44 @7981 has 243 MA's), (75, 8137), (82, 8203), (89, 8242), (95, 8290), (98, 8299), (136, 8476), (152, 8572), (166, 8650), (170, 8680), (179, 8737),

Gene: Hexbug_15 Start: 8936, Stop: 9784, Start Num: 44

Candidate Starts for Hexbug_15:

(Start: 44 @8936 has 243 MA's), (51, 8969), (67, 9047), (73, 9077), (79, 9155), (92, 9227), (103, 9296), (105, 9311), (125, 9401), (127, 9413), (133, 9437), (137, 9452), (153, 9521), (159, 9560), (170, 9623), (183, 9728),

Gene: HippoPololi_15 Start: 8768, Stop: 9607, Start Num: 44

Candidate Starts for HippoPololi_15:

(Start: 44 @8768 has 243 MA's), (51, 8801), (72, 8894), (88, 9029), (113, 9158), (127, 9227), (133, 9251), (136, 9260), (137, 9266), (146, 9314), (166, 9407), (183, 9542), (188, 9590),

Gene: Homura_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Homura_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Hope_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Hope_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Horseradish_14 Start: 7821, Stop: 8666, Start Num: 44

Candidate Starts for Horseradish_14:

(Start: 44 @7821 has 243 MA's), (51, 7854), (79, 8040), (92, 8112), (133, 8313), (137, 8328), (144, 8361), (154, 8406), (181, 8592), (182, 8598),

Gene: Hotshotbaby7_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Hotshotbaby7_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Huckleberry_11 Start: 7938, Stop: 8846, Start Num: 44

Candidate Starts for Huckleberry_11:

(Start: 44 @7938 has 243 MA's), (75, 8094), (89, 8199), (98, 8256), (136, 8436), (140, 8451), (152, 8532), (166, 8610), (170, 8640), (173, 8658), (179, 8697),

Gene: HunterDalle_11 Start: 7979, Stop: 8884, Start Num: 44

Candidate Starts for HunterDalle_11:

(Start: 44 @7979 has 243 MA's), (75, 8135), (98, 8297), (112, 8366), (135, 8471), (136, 8474), (140, 8489), (166, 8648), (170, 8678), (173, 8696), (179, 8735), (184, 8795), (186, 8813),

Gene: Huntingdon_15 Start: 10859, Stop: 11767, Start Num: 43

Candidate Starts for Huntingdon_15:

(Start: 43 @10859 has 9 MA's), (75, 11015), (89, 11120), (95, 11168), (136, 11357), (138, 11366), (149, 11432), (166, 11531), (170, 11561), (178, 11612), (179, 11618),

Gene: Hurricane_17 Start: 10577, Stop: 11188, Start Num: 38

Candidate Starts for Hurricane_17:

(Start: 38 @10577 has 6 MA's), (49, 10622), (78, 10799), (86, 10856), (90, 10871), (95, 10916), (102, 10955), (103, 10961), (104, 10964), (111, 11000), (114, 11012), (116, 11027), (129, 11084), (132, 11099), (139, 11123),

Gene: Hyperbowlee_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Hyperbowlee_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Icarian_13 Start: 8561, Stop: 9358, Start Num: 44

Candidate Starts for Icarian_13:

(Start: 44 @8561 has 243 MA's), (46, 8567), (61, 8645), (74, 8711), (75, 8726), (102, 8918), (111, 8963), (159, 9203),

Gene: Illumine_18 Start: 10494, Stop: 11108, Start Num: 36

Candidate Starts for Illumine_18:

(Start: 36 @10494 has 102 MA's), (49, 10539), (74, 10662), (78, 10716), (86, 10773), (90, 10788), (95, 10833), (102, 10872), (103, 10878), (111, 10917), (114, 10929), (120, 10956), (129, 11001), (132, 11016), (139, 11040),

Gene: Immaculata_15 Start: 10848, Stop: 11756, Start Num: 44

Candidate Starts for Immaculata_15:

(Start: 44 @10848 has 243 MA's), (75, 11004), (89, 11109), (98, 11166), (136, 11346), (140, 11361), (161, 11496), (166, 11520), (170, 11550), (179, 11607),

Gene: IndyLu_12 Start: 8371, Stop: 9165, Start Num: 44

Candidate Starts for IndyLu_12:

(Start: 44 @8371 has 243 MA's), (74, 8518), (75, 8533), (102, 8725), (111, 8770), (121, 8812), (159, 9010),

Gene: Inky_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Inky_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: InvictusManeo_16 Start: 10628, Stop: 11239, Start Num: 39

Candidate Starts for InvictusManeo_16:

(Start: 39 @10628 has 133 MA's), (49, 10673), (78, 10850), (86, 10907), (90, 10922), (92, 10937), (102, 11006), (103, 11012), (111, 11051), (116, 11078), (129, 11135), (132, 11150), (139, 11174), (143, 11204),

Gene: JAWS_18 Start: 10498, Stop: 11109, Start Num: 36

Candidate Starts for JAWS_18:

(Start: 36 @10498 has 102 MA's), (49, 10540), (74, 10663), (78, 10717), (86, 10774), (90, 10789), (102, 10873), (103, 10879), (111, 10918), (114, 10930), (120, 10957), (129, 11002), (132, 11017), (139, 11041), (150, 11098),

Gene: JF1_19 Start: 11716, Stop: 12327, Start Num: 39

Candidate Starts for JF1_19:

(Start: 39 @11716 has 133 MA's), (54, 11782), (56, 11788), (65, 11836), (75, 11893), (76, 11899), (77, 11920), (78, 11932), (90, 12004), (102, 12088), (103, 12094), (111, 12133), (114, 12145), (116, 12160), (129, 12217), (132, 12232), (139, 12256), (143, 12286),

Gene: Jabb_12 Start: 8360, Stop: 9157, Start Num: 44

Candidate Starts for Jabb_12:

(9, 8156), (10, 8174), (Start: 39 @8330 has 133 MA's), (Start: 44 @8360 has 243 MA's), (46, 8366), (74, 8507), (75, 8522), (102, 8714), (121, 8801), (159, 9002),

Gene: Jablanski_14 Start: 8564, Stop: 9409, Start Num: 44

Candidate Starts for Jablanski_14:

(Start: 44 @8564 has 243 MA's), (60, 8633), (63, 8645), (102, 8909), (111, 8954), (113, 8963), (144, 9104),

Gene: JacoRen57_12 Start: 8388, Stop: 9011, Start Num: 39

Candidate Starts for JacoRen57_12:

(Start: 39 @8388 has 133 MA's), (74, 8550), (80, 8622), (102, 8769), (106, 8793), (111, 8814), (139, 8937), (147, 8988),

Gene: Jamun_13 Start: 9149, Stop: 9979, Start Num: 44

Candidate Starts for Jamun_13:

(Start: 44 @9149 has 243 MA's), (95, 9458), (107, 9524), (120, 9581), (136, 9653), (141, 9686), (151, 9740), (160, 9785), (172, 9860),

Gene: Jamzy_16 Start: 8260, Stop: 9108, Start Num: 44

Candidate Starts for Jamzy_16:

(Start: 44 @8260 has 243 MA's), (51, 8293), (70, 8389), (79, 8479), (103, 8620), (125, 8725), (127, 8737), (129, 8743), (133, 8761), (136, 8770), (137, 8776), (153, 8845), (157, 8869), (169, 8938), (170, 8947), (183, 9052),

Gene: Jane_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Jane_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Jarvi_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Jarvi_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Jayhawk_18 Start: 10505, Stop: 11119, Start Num: 36

Candidate Starts for Jayhawk_18:

(Start: 36 @10505 has 102 MA's), (49, 10550), (74, 10673), (78, 10727), (86, 10784), (90, 10799), (102, 10883), (103, 10889), (111, 10928), (114, 10940), (120, 10967), (129, 11012), (132, 11027), (139, 11051), (150, 11108),

Gene: Jeckyll_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Jeckyll_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Jerole_14 Start: 8964, Stop: 9545, Start Num: 44

Candidate Starts for Jerole_14:

(Start: 44 @8964 has 243 MA's), (49, 8985), (68, 9072), (75, 9120), (95, 9273), (111, 9357), (119, 9393), (121, 9399), (126, 9432), (141, 9501),

Gene: Joann_15 Start: 10851, Stop: 11759, Start Num: 43

Candidate Starts for Joann_15:

(Start: 43 @10851 has 9 MA's), (75, 11007), (89, 11112), (95, 11160), (136, 11349), (150, 11427), (166, 11523), (170, 11553), (178, 11604), (179, 11610),

Gene: Johnathan_12 Start: 8320, Stop: 9117, Start Num: 44

Candidate Starts for Johnathan_12:

(3, 8020), (9, 8116), (10, 8134), (12, 8143), (23, 8236), (Start: 39 @8290 has 133 MA's), (Start: 44 @8320 has 243 MA's), (46, 8326), (74, 8467), (75, 8482), (102, 8674), (121, 8761), (159, 8962), (175, 9058),

Gene: Jolene_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Jolene_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Jolie2_13 Start: 9130, Stop: 9750, Start Num: 39

Candidate Starts for Jolie2_13:

(Start: 39 @9130 has 133 MA's), (53, 9205), (65, 9262), (75, 9319), (86, 9415), (90, 9430), (92, 9445), (95, 9475), (102, 9514), (106, 9538), (116, 9586), (123, 9616), (132, 9658), (142, 9709),

Gene: Jonghyun_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Jonghyun_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: JorRay_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for JorRay_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Jovita_12 Start: 8422, Stop: 9219, Start Num: 44

Candidate Starts for Jovita_12:

(9, 8218), (10, 8236), (Start: 39 @8392 has 133 MA's), (Start: 44 @8422 has 243 MA's), (46, 8428), (74, 8569), (75, 8584), (102, 8776), (111, 8821), (121, 8863), (159, 9064),

Gene: Joy99_18 Start: 10470, Stop: 11084, Start Num: 36

Candidate Starts for Joy99_18:

(Start: 36 @10470 has 102 MA's), (49, 10515), (74, 10638), (78, 10692), (86, 10749), (90, 10764), (102, 10848), (103, 10854), (111, 10893), (114, 10905), (120, 10932), (129, 10977), (132, 10992), (139, 11016), (150, 11073),

Gene: Juicebox_14 Start: 9288, Stop: 10136, Start Num: 47

Candidate Starts for Juicebox_14:

(Start: 47 @9288 has 1 MA's), (88, 9543), (107, 9648), (144, 9822), (156, 9879),

Gene: Juliette_19 Start: 11592, Stop: 12203, Start Num: 39

Candidate Starts for Juliette_19:

(Start: 39 @11592 has 133 MA's), (54, 11658), (56, 11664), (65, 11712), (75, 11769), (76, 11775), (77, 11796), (78, 11808), (86, 11865), (90, 11880), (92, 11895), (102, 11964), (103, 11970), (116, 12036), (129, 12093), (132, 12108), (139, 12132), (143, 12162),

Gene: Jumboset_15 Start: 10797, Stop: 11705, Start Num: 44

Candidate Starts for Jumboset_15:

(Start: 44 @10797 has 243 MA's), (75, 10953), (89, 11058), (98, 11115), (136, 11295), (140, 11310), (161, 11445), (166, 11469), (170, 11499), (179, 11556),

Gene: Juno112_12 Start: 8379, Stop: 8960, Start Num: 44

Candidate Starts for Juno112_12:

(Start: 44 @8379 has 243 MA's), (49, 8400), (95, 8688), (111, 8772), (120, 8811), (121, 8814), (126, 8847), (141, 8916), (148, 8946),

Gene: KHumphrey_12 Start: 8378, Stop: 8959, Start Num: 44

Candidate Starts for KHumphrey_12:

(Start: 44 @8378 has 243 MA's), (49, 8399), (95, 8687), (111, 8771), (120, 8810), (121, 8813), (126, 8846), (141, 8915), (148, 8945),

Gene: Kalizoi_15 Start: 10796, Stop: 11704, Start Num: 44

Candidate Starts for Kalizoi_15:

(Start: 44 @10796 has 243 MA's), (75, 10952), (89, 11057), (98, 11114), (136, 11294), (140, 11309), (161, 11444), (166, 11468), (170, 11498), (179, 11555),

Gene: Kareem_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Kareem_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Kasen3_13 Start: 9855, Stop: 10469, Start Num: 39

Candidate Starts for Kasen3_13:

(Start: 39 @9855 has 133 MA's), (49, 9900), (53, 9924), (70, 10002), (74, 10023), (75, 10038), (86, 10134), (90, 10149), (94, 10173), (95, 10194), (102, 10233), (106, 10257), (108, 10266), (111, 10278), (123, 10335), (129, 10362), (132, 10377), (139, 10401),

Gene: Kate33_12 Start: 8370, Stop: 9164, Start Num: 44

Candidate Starts for Kate33_12:

(Start: 44 @8370 has 243 MA's), (74, 8517), (75, 8532), (102, 8724), (111, 8769), (121, 8811), (159, 9009),

Gene: Katzastrophic_12 Start: 8463, Stop: 9053, Start Num: 44

Candidate Starts for Katzastrophic_12:

(Start: 44 @8463 has 243 MA's), (46, 8469), (49, 8484), (55, 8511), (71, 8589), (74, 8607), (75, 8622), (95, 8775), (102, 8814), (103, 8820), (111, 8859), (120, 8898), (124, 8919),

Gene: KayGee_13 Start: 7707, Stop: 8546, Start Num: 44

Candidate Starts for KayGee_13:

(21, 7593), (30, 7653), (Start: 44 @7707 has 243 MA's), (51, 7740), (79, 7926), (91, 7986), (92, 7998), (113, 8106), (133, 8199), (136, 8208), (137, 8214), (144, 8247), (149, 8277), (159, 8322), (174, 8412),

Gene: KendraB23_14 Start: 8961, Stop: 9545, Start Num: 44

Candidate Starts for KendraB23_14:

(Start: 44 @8961 has 243 MA's), (126, 9429), (141, 9498), (145, 9510),

Gene: Kenzers_12 Start: 8337, Stop: 9134, Start Num: 44

Candidate Starts for Kenzers_12:

(8, 8130), (9, 8133), (10, 8151), (23, 8253), (Start: 39 @8307 has 133 MA's), (Start: 44 @8337 has 243 MA's), (46, 8343), (74, 8484), (75, 8499), (102, 8691), (121, 8778), (159, 8979), (175, 9075),

Gene: Kepler_13 Start: 8802, Stop: 9383, Start Num: 44

Candidate Starts for Kepler_13:

(Start: 44 @8802 has 243 MA's), (49, 8823), (68, 8910), (75, 8958), (95, 9111), (111, 9195), (119, 9231), (121, 9237), (126, 9270), (141, 9339),

Gene: Keshu_17 Start: 10564, Stop: 11175, Start Num: 38

Candidate Starts for Keshu_17:

(Start: 38 @10564 has 6 MA's), (49, 10609), (78, 10786), (86, 10843), (90, 10858), (95, 10903), (102, 10942), (103, 10948), (104, 10951), (111, 10987), (114, 10999), (116, 11014), (129, 11071), (132, 11086), (139, 11110),

Gene: KiSi_17 Start: 9433, Stop: 10044, Start Num: 36

Candidate Starts for KiSi_17:

(Start: 36 @9433 has 102 MA's), (49, 9475), (86, 9709), (90, 9724), (92, 9739), (95, 9769), (102, 9808), (103, 9814), (111, 9853), (114, 9865), (129, 9937), (132, 9952), (139, 9976), (143, 10006), (147, 10027),

Gene: Kieran_12 Start: 8559, Stop: 9353, Start Num: 44

Candidate Starts for Kieran_12:

(Start: 44 @8559 has 243 MA's), (46, 8565), (60, 8634), (74, 8706), (75, 8721), (102, 8913), (111, 8958), (121, 9000), (123, 9015), (147, 9132), (159, 9198), (177, 9306),

Gene: KingBob_11 Start: 7981, Stop: 8886, Start Num: 44

Candidate Starts for KingBob_11:

(Start: 44 @7981 has 243 MA's), (75, 8137), (82, 8203), (89, 8242), (95, 8290), (98, 8299), (136, 8476), (152, 8572), (166, 8650), (170, 8680), (179, 8737),

Gene: Kittykat_11 Start: 7979, Stop: 8887, Start Num: 44

Candidate Starts for Kittykat_11:

(Start: 44 @7979 has 243 MA's), (75, 8135), (89, 8240), (97, 8294), (98, 8297), (136, 8477), (138, 8486), (152, 8573), (156, 8597), (166, 8651), (170, 8681), (173, 8699), (179, 8738),

Gene: Korra_15 Start: 10802, Stop: 11710, Start Num: 44

Candidate Starts for Korra_15:

(Start: 44 @10802 has 243 MA's), (75, 10958), (89, 11063), (98, 11120), (136, 11300), (139, 11312), (140, 11315), (161, 11450), (166, 11474), (170, 11504), (179, 11561),

Gene: Kratio_15 Start: 10255, Stop: 10866, Start Num: 39

Candidate Starts for Kratio_15:

(Start: 39 @10255 has 133 MA's), (49, 10300), (86, 10534), (90, 10549), (92, 10564), (102, 10633), (103, 10639), (111, 10678), (116, 10705), (129, 10762), (132, 10777), (139, 10801), (143, 10831),

Gene: Kraw_19 Start: 11636, Stop: 12247, Start Num: 39

Candidate Starts for Kraw_19:

(Start: 39 @11636 has 133 MA's), (54, 11702), (56, 11708), (65, 11756), (75, 11813), (76, 11819), (77, 11840), (78, 11852), (86, 11909), (90, 11924), (102, 12008), (103, 12014), (111, 12053), (114, 12065), (116, 12080), (132, 12152), (139, 12176), (143, 12206),

Gene: Krueger_17 Start: 9483, Stop: 10097, Start Num: 36

Candidate Starts for Krueger_17:

(Start: 36 @9483 has 102 MA's), (49, 9528), (78, 9705), (86, 9762), (90, 9777), (92, 9792), (95, 9822), (102, 9861), (103, 9867), (132, 10005), (140, 10032), (147, 10080),

Gene: Kuleana_13 Start: 8760, Stop: 9341, Start Num: 44

Candidate Starts for Kuleana_13:

(Start: 44 @8760 has 243 MA's), (49, 8781), (72, 8886), (75, 8916), (95, 9069), (111, 9153), (120, 9192), (126, 9228), (137, 9270), (141, 9297),

Gene: Lahqtemish_12 Start: 8417, Stop: 9211, Start Num: 44

Candidate Starts for Lahqtemish_12:

(Start: 44 @8417 has 243 MA's), (74, 8564), (75, 8579), (102, 8771), (111, 8816), (121, 8858), (159, 9056),

Gene: Lakshmi_15 Start: 10878, Stop: 11786, Start Num: 43

Candidate Starts for Lakshmi_15:

(Start: 43 @10878 has 9 MA's), (75, 11034), (89, 11139), (95, 11187), (136, 11376), (166, 11550), (170, 11580), (178, 11631), (179, 11637),

Gene: Larva_16 Start: 10368, Stop: 10979, Start Num: 39

Candidate Starts for Larva_16:

(Start: 39 @10368 has 133 MA's), (49, 10413), (86, 10647), (90, 10662), (92, 10677), (102, 10746), (103, 10752), (111, 10791), (114, 10803), (116, 10818), (129, 10875), (132, 10890), (139, 10914), (143, 10944),

Gene: Lasagna_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for Lasagna_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (97, 8251), (98, 8254), (101, 8272), (136, 8434), (166, 8608), (170, 8638), (179, 8695),

Gene: LastHope_18 Start: 9529, Stop: 10143, Start Num: 39

Candidate Starts for LastHope_18:

(Start: 39 @9529 has 133 MA's), (49, 9574), (62, 9640), (75, 9712), (78, 9751), (86, 9808), (92, 9838), (95, 9868), (102, 9907), (103, 9913), (104, 9916), (111, 9952), (129, 10036), (139, 10075), (143, 10105), (147, 10126),

Gene: LaterM_18 Start: 10463, Stop: 11074, Start Num: 37

Candidate Starts for LaterM_18:

(Start: 37 @10463 has 5 MA's), (49, 10505), (74, 10628), (78, 10682), (86, 10739), (90, 10754), (95, 10799), (102, 10838), (103, 10844), (111, 10883), (114, 10895), (120, 10922), (129, 10967), (132, 10982), (139, 11006),

Gene: Lauer_12 Start: 7756, Stop: 8595, Start Num: 44

Candidate Starts for Lauer_12:

(21, 7642), (30, 7702), (Start: 44 @7756 has 243 MA's), (51, 7789), (79, 7975), (91, 8035), (92, 8047), (133, 8248), (136, 8257), (137, 8263), (144, 8296), (149, 8326), (159, 8371), (174, 8461),

Gene: LeMond_17 Start: 9505, Stop: 10116, Start Num: 36

Candidate Starts for LeMond_17:

(Start: 36 @9505 has 102 MA's), (49, 9547), (86, 9781), (90, 9796), (92, 9811), (95, 9841), (102, 9880), (103, 9886), (111, 9925), (114, 9937), (129, 10009), (132, 10024), (139, 10048), (143, 10078), (147, 10099),

Gene: Lemuria_13 Start: 9183, Stop: 9803, Start Num: 39

Candidate Starts for Lemuria_13:

(Start: 39 @9183 has 133 MA's), (49, 9234), (53, 9258), (65, 9315), (74, 9357), (75, 9372), (86, 9468), (90, 9483), (92, 9498), (94, 9507), (95, 9528), (102, 9567), (106, 9591), (111, 9612), (116, 9639), (122, 9663), (123, 9669), (132, 9711),

Gene: Lennox_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for Lennox_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (97, 8251), (98, 8254), (136, 8434), (161, 8584), (166, 8608), (170, 8638), (179, 8695),

Gene: Leona_12 Start: 8429, Stop: 9010, Start Num: 44

Candidate Starts for Leona_12:

(Start: 44 @8429 has 243 MA's), (49, 8450), (95, 8738), (111, 8822), (120, 8861), (121, 8864), (126, 8897), (141, 8966), (148, 8996),

Gene: Leston_16 Start: 10660, Stop: 11271, Start Num: 39

Candidate Starts for Leston_16:

(Start: 39 @10660 has 133 MA's), (49, 10705), (78, 10882), (86, 10939), (90, 10954), (92, 10969), (102, 11038), (103, 11044), (111, 11083), (114, 11095), (116, 11110), (125, 11149), (129, 11167), (132, 11182), (139, 11206), (143, 11236),

Gene: Liefie_13 Start: 9853, Stop: 10467, Start Num: 39

Candidate Starts for Liefie_13:

(Start: 39 @9853 has 133 MA's), (49, 9898), (53, 9922), (70, 10000), (74, 10021), (75, 10036), (86, 10132), (90, 10147), (92, 10162), (94, 10171), (95, 10192), (102, 10231), (106, 10255), (108, 10264), (111, 10276), (123, 10333), (129, 10360), (132, 10375), (139, 10399),

Gene: LilPharaoh_14 Start: 9777, Stop: 10388, Start Num: 36

Candidate Starts for LilPharaoh_14:

(Start: 36 @9777 has 102 MA's), (Start: 44 @9798 has 243 MA's), (49, 9819), (74, 9942), (75, 9957), (78, 9996), (86, 10053), (90, 10068), (95, 10113), (102, 10152), (103, 10158), (111, 10197), (114, 10209), (129, 10281), (132, 10296), (139, 10320), (143, 10350),

Gene: LilSpotty_12 Start: 7545, Stop: 8324, Start Num: 45

Candidate Starts for LilSpotty_12:

(Start: 45 @7545 has 1 MA's), (64, 7632), (74, 7683), (81, 7761), (87, 7797), (92, 7824), (95, 7854), (97, 7860), (102, 7893), (109, 7929), (111, 7938), (126, 8034), (136, 8070), (144, 8109), (164, 8196), (180, 8304),

Gene: LilStuart_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for LilStuart_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (97, 8251), (98, 8254), (101, 8272), (136, 8434), (166, 8608), (170, 8638), (179, 8695),

Gene: Lilas_14 Start: 8717, Stop: 9562, Start Num: 44

Candidate Starts for Lilas_14:

(Start: 44 @8717 has 243 MA's), (63, 8798), (111, 9107), (113, 9116), (144, 9257), (163, 9374), (167, 9398), (176, 9449),

Gene: LimaBean_12 Start: 8320, Stop: 9117, Start Num: 44

Candidate Starts for LimaBean_12:

(3, 8020), (9, 8116), (10, 8134), (23, 8236), (Start: 39 @8290 has 133 MA's), (Start: 44 @8320 has 243 MA's), (46, 8326), (74, 8467), (75, 8482), (102, 8674), (121, 8761), (159, 8962), (175, 9058),

Gene: LindNT_18 Start: 10468, Stop: 11082, Start Num: 36

Candidate Starts for LindNT_18:

(Start: 36 @10468 has 102 MA's), (49, 10513), (74, 10636), (78, 10690), (86, 10747), (90, 10762), (102, 10846), (103, 10852), (111, 10891), (114, 10903), (129, 10975), (132, 10990), (139, 11014), (150, 11071),

Gene: Litotes_15 Start: 10820, Stop: 11728, Start Num: 44

Candidate Starts for Litotes_15:

(Start: 44 @10820 has 243 MA's), (49, 10841), (69, 10931), (75, 10976), (98, 11138), (102, 11168), (129, 11288), (135, 11315), (136, 11318), (140, 11333), (150, 11396), (152, 11414), (166, 11492), (170, 11522), (171, 11528), (178, 11573), (179, 11579),

Gene: LittleTokyo_13 Start: 8714, Stop: 9298, Start Num: 44

Candidate Starts for LittleTokyo_13:

(Start: 44 @8714 has 243 MA's), (49, 8735), (69, 8825), (95, 9023), (111, 9107), (120, 9146), (126, 9182), (133, 9209), (137, 9224), (148, 9281),

Gene: Llorens_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Llorens_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: LonelyBoi_14 Start: 8564, Stop: 9409, Start Num: 44

Candidate Starts for LonelyBoi_14:

(Start: 44 @8564 has 243 MA's), (63, 8645), (111, 8954), (113, 8963), (131, 9050), (144, 9104),

Gene: LouisV14_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for LouisV14_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Loviatar_20 Start: 8640, Stop: 9437, Start Num: 44

Candidate Starts for Loviatar_20:

(Start: 44 @8640 has 243 MA's), (46, 8646), (61, 8724), (74, 8790), (75, 8805), (97, 8964), (102, 8997), (111, 9042), (159, 9282),

Gene: Lucy_11 Start: 7927, Stop: 8835, Start Num: 44

Candidate Starts for Lucy_11:

(Start: 44 @7927 has 243 MA's), (75, 8083), (97, 8242), (98, 8245), (136, 8425), (161, 8575), (166, 8599), (170, 8629), (179, 8686),

Gene: Lunahalos_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Lunahalos_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Lunar_14 Start: 8964, Stop: 9545, Start Num: 44

Candidate Starts for Lunar_14:

(Start: 44 @8964 has 243 MA's), (49, 8985), (68, 9072), (75, 9120), (95, 9273), (111, 9357), (119, 9393), (121, 9399), (126, 9432), (141, 9501),

Gene: Lynlen_12 Start: 8337, Stop: 9134, Start Num: 44

Candidate Starts for Lynlen_12:

(8, 8130), (9, 8133), (10, 8151), (23, 8253), (Start: 39 @8307 has 133 MA's), (Start: 44 @8337 has 243 MA's), (46, 8343), (74, 8484), (75, 8499), (102, 8691), (121, 8778), (159, 8979), (175, 9075),

Gene: MAnor_13 Start: 7697, Stop: 8536, Start Num: 44

Candidate Starts for MAnor_13:

(21, 7583), (30, 7643), (Start: 44 @7697 has 243 MA's), (51, 7730), (79, 7916), (84, 7952), (91, 7976), (92, 7988), (133, 8189), (136, 8198), (137, 8204), (144, 8237), (149, 8267), (159, 8312), (182, 8474),

Gene: MOOREtheMARYer_13 Start: 10071, Stop: 10694, Start Num: 39

Candidate Starts for MOOREtheMARYer_13:

(Start: 39 @10071 has 133 MA's), (41, 10098), (53, 10149), (65, 10206), (74, 10248), (75, 10263), (86, 10359), (90, 10374), (94, 10398), (95, 10419), (102, 10458), (106, 10482), (116, 10530), (122, 10554), (123, 10560), (132, 10602),

Gene: MScarn_15 Start: 7910, Stop: 8755, Start Num: 44

Candidate Starts for MScarn_15:

(21, 7793), (30, 7853), (Start: 44 @7910 has 243 MA's), (51, 7943), (79, 8129), (92, 8201), (133, 8402), (137, 8417), (144, 8450), (154, 8495), (181, 8681), (182, 8687),

Gene: MaVan_15 Start: 8878, Stop: 9717, Start Num: 44

Candidate Starts for MaVan_15:

(Start: 44 @8878 has 243 MA's), (51, 8911), (88, 9139), (103, 9220), (113, 9268), (125, 9325), (127, 9337), (133, 9361), (137, 9376), (157, 9469), (162, 9502), (165, 9514), (166, 9517), (183, 9652), (188, 9700),

Gene: MacKat_19 Start: 10521, Stop: 11132, Start Num: 36

Candidate Starts for MacKat_19:

(Start: 36 @10521 has 102 MA's), (49, 10563), (74, 10686), (78, 10740), (86, 10797), (90, 10812), (102, 10896), (103, 10902), (111, 10941), (120, 10980), (129, 11025), (132, 11040), (139, 11064), (150, 11121),

Gene: MacnCheese_18 Start: 10792, Stop: 11403, Start Num: 38

Candidate Starts for MacnCheese_18:

(Start: 38 @10792 has 6 MA's), (49, 10837), (78, 11014), (86, 11071), (90, 11086), (95, 11131), (102, 11170), (103, 11176), (104, 11179), (111, 11215), (114, 11227), (116, 11242), (132, 11314), (139, 11338),

Gene: Maco6_13 Start: 8602, Stop: 9243, Start Num: 39

Candidate Starts for Maco6_13:

(27, 8569), (Start: 39 @8602 has 133 MA's), (48, 8635), (49, 8644), (52, 8662), (66, 8728), (74, 8767), (75, 8782), (88, 8887), (92, 8908), (95, 8938), (102, 8977), (111, 9022), (129, 9106), (134, 9127),

Gene: Makoto_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for Makoto_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (98, 8254), (136, 8434), (161, 8584), (166, 8608), (170, 8638), (179, 8695),

Gene: Maliketh_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Maliketh_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Malthus_19 Start: 11636, Stop: 12247, Start Num: 39

Candidate Starts for Malthus_19:

(Start: 39 @11636 has 133 MA's), (54, 11702), (56, 11708), (65, 11756), (75, 11813), (76, 11819), (77, 11840), (78, 11852), (86, 11909), (90, 11924), (102, 12008), (103, 12014), (111, 12053), (114, 12065), (116, 12080), (132, 12152), (139, 12176), (143, 12206),

Gene: MamaPearl_11 Start: 7982, Stop: 8890, Start Num: 44

Candidate Starts for MamaPearl_11:

(32, 7931), (33, 7934), (Start: 44 @7982 has 243 MA's), (49, 8003), (75, 8138), (89, 8243), (98, 8300), (130, 8453), (136, 8480), (149, 8555), (152, 8576), (166, 8654), (170, 8684), (171, 8690), (179, 8741),

Gene: Marcoliusprime_14 Start: 8532, Stop: 9146, Start Num: 35

Candidate Starts for Marcoliusprime_14:

(Start: 35 @8532 has 8 MA's), (48, 8571), (49, 8580), (86, 8814), (90, 8829), (92, 8844), (95, 8874), (102, 8913), (103, 8919), (110, 8955), (114, 8970), (120, 8997), (129, 9042), (132, 9057), (139, 9081),

Gene: Margaret_16 Start: 8645, Stop: 9493, Start Num: 44

Candidate Starts for Margaret_16:

(Start: 44 @8645 has 243 MA's), (51, 8678), (79, 8864), (105, 9020), (125, 9110), (127, 9122), (133, 9146), (137, 9161), (153, 9230), (157, 9254), (169, 9323), (170, 9332), (187, 9476),

Gene: Maria1952_11 Start: 7981, Stop: 8886, Start Num: 44

Candidate Starts for Maria1952_11:

(Start: 44 @7981 has 243 MA's), (75, 8137), (82, 8203), (89, 8242), (95, 8290), (98, 8299), (136, 8476), (152, 8572), (166, 8650), (170, 8680), (179, 8737),

Gene: MarkPhew_18 Start: 9393, Stop: 10004, Start Num: 36

Candidate Starts for MarkPhew_18:

(Start: 36 @9393 has 102 MA's), (49, 9435), (75, 9573), (86, 9669), (90, 9684), (95, 9729), (102, 9768), (103, 9774), (132, 9912), (139, 9936), (143, 9966), (147, 9987),

Gene: Marmie_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Marmie_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Marshawn_19 Start: 10081, Stop: 10695, Start Num: 39

Candidate Starts for Marshawn_19:

(Start: 39 @10081 has 133 MA's), (Start: 44 @10105 has 243 MA's), (49, 10126), (74, 10249), (76, 10270), (86, 10360), (90, 10375), (102, 10459), (103, 10465), (111, 10504), (114, 10516), (120, 10543), (129, 10588), (132, 10603), (139, 10627),

Gene: Marteena_14 Start: 8717, Stop: 9562, Start Num: 44

Candidate Starts for Marteena_14:

(Start: 44 @8717 has 243 MA's), (60, 8786), (63, 8798), (102, 9062), (111, 9107), (113, 9116), (131, 9203), (144, 9257),

Gene: Mayweather_14 Start: 8330, Stop: 9166, Start Num: 44

Candidate Starts for Mayweather_14:

(6, 8111), (13, 8168), (21, 8216), (30, 8276), (Start: 44 @8330 has 243 MA's), (51, 8363), (79, 8549), (91, 8609), (133, 8822), (136, 8831), (137, 8837), (144, 8870), (149, 8900), (159, 8945), (182, 9107),

Gene: McMater_18 Start: 9573, Stop: 10184, Start Num: 39

Candidate Starts for McMater_18:

(Start: 39 @9573 has 133 MA's), (49, 9615), (75, 9753), (78, 9792), (86, 9849), (90, 9864), (95, 9909), (102, 9948), (103, 9954), (104, 9957), (114, 10005), (116, 10020), (129, 10077),

Gene: Mdavu_14 Start: 9765, Stop: 10376, Start Num: 36

Candidate Starts for Mdavu_14:

(Start: 36 @9765 has 102 MA's), (Start: 44 @9786 has 243 MA's), (49, 9807), (74, 9930), (75, 9945), (78, 9984), (86, 10041), (90, 10056), (95, 10101), (102, 10140), (103, 10146), (111, 10185), (114, 10197), (129, 10269), (132, 10284), (139, 10308), (143, 10338),

Gene: MeaningOfLife_18 Start: 10477, Stop: 11091, Start Num: 36

Candidate Starts for MeaningOfLife_18:

(Start: 36 @10477 has 102 MA's), (49, 10522), (74, 10645), (78, 10699), (86, 10756), (90, 10771), (102, 10855), (103, 10861), (111, 10900), (114, 10912), (120, 10939), (129, 10984), (132, 10999), (139, 11023), (150, 11080),

Gene: MeganNoll_15 Start: 10854, Stop: 11762, Start Num: 44

Candidate Starts for MeganNoll_15:

(Start: 44 @10854 has 243 MA's), (75, 11010), (89, 11115), (98, 11172), (136, 11352), (140, 11367), (161, 11502), (166, 11526), (170, 11556), (179, 11613),

Gene: Megsy_18 Start: 10471, Stop: 11085, Start Num: 36

Candidate Starts for Megsy_18:

(Start: 36 @10471 has 102 MA's), (49, 10516), (74, 10639), (78, 10693), (86, 10750), (90, 10765), (102, 10849), (103, 10855), (111, 10894), (114, 10906), (120, 10933), (129, 10978), (132, 10993), (139, 11017), (150, 11074),

Gene: Melons_14 Start: 8964, Stop: 9545, Start Num: 44

Candidate Starts for Melons_14:

(Start: 44 @8964 has 243 MA's), (49, 8985), (68, 9072), (75, 9120), (95, 9273), (111, 9357), (119, 9393), (121, 9399), (126, 9432), (141, 9501),

Gene: Mercurio_14 Start: 9826, Stop: 10446, Start Num: 39

Candidate Starts for Mercurio_14:

(Start: 39 @9826 has 133 MA's), (53, 9901), (65, 9958), (75, 10015), (86, 10111), (90, 10126), (92, 10141), (95, 10171), (102, 10210), (106, 10234), (111, 10255), (116, 10282), (122, 10306), (123,

10312), (132, 10354), (143, 10408),

Gene: Milly_14 Start: 8532, Stop: 9146, Start Num: 35

Candidate Starts for Milly_14:

(Start: 35 @8532 has 8 MA's), (48, 8571), (49, 8580), (86, 8814), (90, 8829), (92, 8844), (95, 8874), (102, 8913), (103, 8919), (110, 8955), (114, 8970), (120, 8997), (129, 9042), (132, 9057), (139, 9081),

Gene: Miryou_16 Start: 10508, Stop: 11119, Start Num: 39

Candidate Starts for Miryou_16:

(Start: 39 @10508 has 133 MA's), (49, 10553), (78, 10730), (86, 10787), (90, 10802), (92, 10817), (102, 10886), (103, 10892), (111, 10931), (114, 10943), (116, 10958), (125, 10997), (129, 11015), (132, 11030), (139, 11054), (143, 11084),

Gene: Misaeng_15 Start: 10924, Stop: 11832, Start Num: 43

Candidate Starts for Misaeng_15:

(Start: 43 @10924 has 9 MA's), (75, 11080), (89, 11185), (95, 11233), (129, 11392), (136, 11422), (138, 11431), (149, 11497), (166, 11596), (170, 11626), (178, 11677), (179, 11683),

Gene: MissDaisy_19 Start: 11490, Stop: 12101, Start Num: 39

Candidate Starts for MissDaisy_19:

(Start: 39 @11490 has 133 MA's), (54, 11556), (56, 11562), (58, 11571), (65, 11610), (75, 11667), (76, 11673), (77, 11694), (78, 11706), (86, 11763), (90, 11778), (102, 11862), (103, 11868), (110, 11904), (111, 11907), (114, 11919), (116, 11934), (129, 11991), (132, 12006), (139, 12030), (143, 12060),

Gene: Mitti_19 Start: 11640, Stop: 12251, Start Num: 39

Candidate Starts for Mitti_19:

(Start: 39 @11640 has 133 MA's), (54, 11706), (56, 11712), (65, 11760), (75, 11817), (76, 11823), (77, 11844), (78, 11856), (86, 11913), (90, 11928), (102, 12012), (103, 12018), (111, 12057), (114, 12069), (116, 12084), (129, 12141), (132, 12156), (139, 12180), (143, 12210),

Gene: Moki_11 Start: 7938, Stop: 8846, Start Num: 44

Candidate Starts for Moki_11:

(Start: 44 @7938 has 243 MA's), (75, 8094), (89, 8199), (98, 8256), (136, 8436), (140, 8451), (152, 8532), (166, 8610), (170, 8640), (173, 8658), (179, 8697),

Gene: Mowgli_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Mowgli_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: MrGloopy_15 Start: 10787, Stop: 11695, Start Num: 44

Candidate Starts for MrGloopy_15:

(Start: 44 @10787 has 243 MA's), (75, 10943), (89, 11048), (98, 11105), (136, 11285), (140, 11300), (166, 11459), (170, 11489), (179, 11546),

Gene: MsUbiquitous_12 Start: 8360, Stop: 9157, Start Num: 44

Candidate Starts for MsUbiquitous_12:

(9, 8156), (10, 8174), (Start: 39 @8330 has 133 MA's), (Start: 44 @8360 has 243 MA's), (46, 8366), (74, 8507), (75, 8522), (102, 8714), (121, 8801), (159, 9002),

Gene: Muddy_15 Start: 9552, Stop: 10193, Start Num: 39

Candidate Starts for Muddy_15:

(27, 9519), (Start: 39 @9552 has 133 MA's), (48, 9585), (49, 9594), (52, 9612), (66, 9678), (74, 9717), (75, 9732), (88, 9837), (92, 9858), (95, 9888), (102, 9927), (111, 9972), (129, 10056), (134, 10077),

Gene: Mufasa_14 Start: 8522, Stop: 9145, Start Num: 34

Candidate Starts for Mufasa_14:

(22, 8456), (Start: 34 @8522 has 2 MA's), (48, 8570), (75, 8717), (86, 8813), (90, 8828), (92, 8843), (95, 8873), (102, 8912), (103, 8918), (104, 8921), (111, 8957), (114, 8969), (116, 8984), (129, 9041), (132, 9056), (139, 9080),

Gene: MunkgeeRoachy_13 Start: 7987, Stop: 8829, Start Num: 44

Candidate Starts for MunkgeeRoachy_13:

(Start: 44 @7987 has 243 MA's), (51, 8020), (79, 8206), (92, 8278), (111, 8377), (133, 8479), (136, 8488), (137, 8494), (144, 8527), (153, 8563), (154, 8572), (181, 8758), (182, 8764),

Gene: Murucutumbu_18 Start: 10456, Stop: 11067, Start Num: 37

Candidate Starts for Murucutumbu_18:

(Start: 37 @10456 has 5 MA's), (49, 10498), (74, 10621), (78, 10675), (86, 10732), (90, 10747), (95, 10792), (102, 10831), (103, 10837), (111, 10876), (114, 10888), (120, 10915), (129, 10960), (132, 10975), (139, 10999),

Gene: Mynx_18 Start: 10524, Stop: 11138, Start Num: 36

Candidate Starts for Mynx_18:

(Start: 36 @10524 has 102 MA's), (49, 10569), (74, 10692), (78, 10746), (86, 10803), (90, 10818), (102, 10902), (103, 10908), (111, 10947), (114, 10959), (120, 10986), (129, 11031), (132, 11046), (139, 11070), (150, 11127),

Gene: Nancia_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for Nancia_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (97, 8251), (98, 8254), (101, 8272), (136, 8434), (166, 8608), (170, 8638), (179, 8695),

Gene: Neighly_16 Start: 10367, Stop: 10978, Start Num: 39

Candidate Starts for Neighly_16:

(Start: 39 @10367 has 133 MA's), (49, 10412), (86, 10646), (90, 10661), (92, 10676), (102, 10745), (103, 10751), (111, 10790), (114, 10802), (116, 10817), (129, 10874), (132, 10889), (139, 10913), (143, 10943),

Gene: Nibb_17 Start: 9545, Stop: 10156, Start Num: 36

Candidate Starts for Nibb_17:

(Start: 36 @9545 has 102 MA's), (49, 9587), (75, 9725), (78, 9764), (86, 9821), (90, 9836), (95, 9881), (102, 9920), (103, 9926), (114, 9977), (132, 10064), (139, 10088), (147, 10139),

Gene: Nibbles_15 Start: 8878, Stop: 9717, Start Num: 44

Candidate Starts for Nibbles_15:

(Start: 44 @8878 has 243 MA's), (51, 8911), (88, 9139), (103, 9220), (113, 9268), (125, 9325), (127, 9337), (133, 9361), (137, 9376), (157, 9469), (162, 9502), (165, 9514), (166, 9517), (183, 9652), (188, 9700),

Gene: Nicky22_13 Start: 8768, Stop: 9565, Start Num: 44

Candidate Starts for Nicky22_13:

(9, 8564), (10, 8582), (Start: 39 @8738 has 133 MA's), (Start: 44 @8768 has 243 MA's), (46, 8774), (74, 8915), (75, 8930), (96, 9086), (102, 9122), (111, 9167), (159, 9410),

Gene: Nikao_14 Start: 9777, Stop: 10388, Start Num: 36

Candidate Starts for Nikao_14:

(Start: 36 @9777 has 102 MA's), (Start: 44 @9798 has 243 MA's), (49, 9819), (74, 9942), (75, 9957), (78, 9996), (86, 10053), (90, 10068), (95, 10113), (102, 10152), (103, 10158), (111, 10197), (114, 10209), (129, 10281), (132, 10296), (139, 10320), (143, 10350),

Gene: Niklas_18 Start: 9573, Stop: 10184, Start Num: 39

Candidate Starts for Niklas_18:

(Start: 39 @9573 has 133 MA's), (49, 9615), (75, 9753), (78, 9792), (86, 9849), (90, 9864), (95, 9909), (102, 9948), (103, 9954), (104, 9957), (114, 10005), (116, 10020), (129, 10077),

Gene: Nina_14 Start: 8973, Stop: 9815, Start Num: 44

Candidate Starts for Nina_14:

(Start: 44 @8973 has 243 MA's), (51, 9006), (92, 9264), (111, 9363), (133, 9465), (136, 9474), (137, 9480), (144, 9513), (153, 9549), (154, 9558), (181, 9744), (182, 9750),

Gene: Nodigi_15 Start: 8929, Stop: 9777, Start Num: 44

Candidate Starts for Nodigi_15:

(Start: 44 @8929 has 243 MA's), (51, 8962), (73, 9070), (79, 9148), (92, 9220), (105, 9304), (125, 9394), (127, 9406), (133, 9430), (137, 9445), (153, 9514), (159, 9553), (170, 9616), (183, 9721),

Gene: November_16 Start: 10373, Stop: 10987, Start Num: 39

Candidate Starts for November_16:

(Start: 39 @10373 has 133 MA's), (Start: 44 @10397 has 243 MA's), (49, 10418), (76, 10562), (78, 10595), (86, 10652), (90, 10667), (102, 10751), (103, 10757), (111, 10796), (114, 10808), (120, 10835), (132, 10895), (139, 10919), (143, 10949),

Gene: Nubia_15 Start: 10838, Stop: 11746, Start Num: 43

Candidate Starts for Nubia_15:

(Start: 43 @10838 has 9 MA's), (75, 10994), (89, 11099), (95, 11147), (136, 11336), (166, 11510), (170, 11540), (178, 11591), (179, 11597),

Gene: Nutello_14 Start: 9777, Stop: 10388, Start Num: 36

Candidate Starts for Nutello_14:

(Start: 36 @9777 has 102 MA's), (Start: 44 @9798 has 243 MA's), (49, 9819), (74, 9942), (75, 9957), (78, 9996), (86, 10053), (90, 10068), (95, 10113), (102, 10152), (103, 10158), (111, 10197), (114, 10209), (129, 10281), (132, 10296), (139, 10320), (143, 10350),

Gene: OMalley_11 Start: 7979, Stop: 8884, Start Num: 44

Candidate Starts for OMalley_11:

(Start: 44 @7979 has 243 MA's), (69, 8090), (75, 8135), (98, 8297), (112, 8366), (135, 8471), (136, 8474), (140, 8489), (166, 8648), (170, 8678), (173, 8696), (179, 8735), (186, 8813),

Gene: OctaviousRex_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for OctaviousRex_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: OkiRoe_16 Start: 10530, Stop: 11141, Start Num: 39

Candidate Starts for OkiRoe_16:

(Start: 39 @10530 has 133 MA's), (49, 10575), (78, 10752), (86, 10809), (90, 10824), (92, 10839), (102, 10908), (103, 10914), (111, 10953), (114, 10965), (116, 10980), (125, 11019), (129, 11037),

(132, 11052), (139, 11076), (143, 11106),

Gene: Olga_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Olga_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Olliecat_12 Start: 8550, Stop: 9137, Start Num: 44

Candidate Starts for Olliecat_12:

(Start: 44 @8550 has 243 MA's), (50, 8577), (74, 8691), (102, 8898), (108, 8931), (117, 8973), (118, 8976), (121, 8985),

Gene: OmniCritical_19 Start: 11627, Stop: 12238, Start Num: 39

Candidate Starts for OmniCritical_19:

(Start: 39 @11627 has 133 MA's), (54, 11693), (56, 11699), (65, 11747), (75, 11804), (76, 11810), (77, 11831), (78, 11843), (86, 11900), (90, 11915), (102, 11999), (103, 12005), (111, 12044), (114, 12056), (116, 12071), (129, 12128), (132, 12143), (139, 12167), (143, 12197),

Gene: Omnicron_16 Start: 9598, Stop: 10209, Start Num: 39

Candidate Starts for Omnicron_16:

(Start: 39 @9598 has 133 MA's), (49, 9643), (65, 9724), (78, 9820), (86, 9877), (90, 9892), (92, 9907), (102, 9976), (103, 9982), (111, 10021), (116, 10048), (129, 10105), (132, 10120), (139, 10144), (143, 10174), (149, 10195),

Gene: Orcanus_13 Start: 8754, Stop: 9338, Start Num: 44

Candidate Starts for Orcanus_13:

(Start: 44 @8754 has 243 MA's), (126, 9222), (141, 9291), (145, 9303),

Gene: Orla_15 Start: 8933, Stop: 9781, Start Num: 44

Candidate Starts for Orla_15:

(Start: 44 @8933 has 243 MA's), (51, 8966), (73, 9074), (79, 9152), (92, 9224), (105, 9308), (125, 9398), (127, 9410), (133, 9434), (137, 9449), (153, 9518), (159, 9557), (170, 9620), (183, 9725),

Gene: Oscar_17 Start: 9506, Stop: 10117, Start Num: 36

Candidate Starts for Oscar_17:

(Start: 36 @9506 has 102 MA's), (49, 9548), (86, 9782), (90, 9797), (92, 9812), (95, 9842), (102, 9881), (103, 9887), (111, 9926), (114, 9938), (129, 10010), (132, 10025), (139, 10049), (143, 10079), (147, 10100),

Gene: OurGirlNessie_11 Start: 7927, Stop: 8835, Start Num: 44

Candidate Starts for OurGirlNessie_11:

(Start: 44 @7927 has 243 MA's), (75, 8083), (97, 8242), (98, 8245), (136, 8425), (161, 8575), (166, 8599), (170, 8629), (179, 8686),

Gene: Oxynfrius_15 Start: 10851, Stop: 11759, Start Num: 43

Candidate Starts for Oxynfrius_15:

(Start: 43 @10851 has 9 MA's), (75, 11007), (89, 11112), (95, 11160), (136, 11349), (166, 11523), (170, 11553), (178, 11604), (179, 11610),

Gene: Pace1224_13 Start: 9947, Stop: 10567, Start Num: 39

Candidate Starts for Pace1224_13:

(Start: 39 @9947 has 133 MA's), (53, 10022), (65, 10079), (74, 10121), (75, 10136), (86, 10232), (90, 10247), (94, 10271), (102, 10331), (106, 10355), (116, 10403), (123, 10433), (132, 10475), (139, 10499), (143, 10529),

Gene: Padfoot_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Padfoot_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Padpat_18 Start: 10504, Stop: 11115, Start Num: 36

Candidate Starts for Padpat_18:

(Start: 36 @10504 has 102 MA's), (49, 10546), (78, 10723), (86, 10780), (90, 10795), (102, 10879), (103, 10885), (111, 10924), (114, 10936), (120, 10963), (129, 11008), (132, 11023), (139, 11047), (150, 11104),

Gene: Paito_13 Start: 9962, Stop: 10582, Start Num: 39

Candidate Starts for Paito_13:

(Start: 39 @9962 has 133 MA's), (53, 10037), (74, 10136), (75, 10151), (86, 10247), (90, 10262), (92, 10277), (94, 10286), (95, 10307), (102, 10346), (106, 10370), (108, 10379), (111, 10391), (122, 10442), (123, 10448), (129, 10475), (132, 10490), (139, 10514),

Gene: Paola_16 Start: 10530, Stop: 11141, Start Num: 39

Candidate Starts for Paola_16:

(Start: 39 @10530 has 133 MA's), (49, 10575), (78, 10752), (86, 10809), (90, 10824), (92, 10839), (102, 10908), (103, 10914), (111, 10953), (114, 10965), (116, 10980), (125, 11019), (129, 11037), (132, 11052), (139, 11076), (143, 11106),

Gene: PartyCup_15 Start: 10867, Stop: 11775, Start Num: 44

Candidate Starts for PartyCup_15:

(Start: 44 @10867 has 243 MA's), (49, 10888), (69, 10978), (75, 11023), (95, 11176), (98, 11185), (102, 11215), (129, 11335), (135, 11362), (136, 11365), (140, 11380), (150, 11443), (152, 11461), (166, 11539), (170, 11569), (171, 11575), (178, 11620), (179, 11626),

Gene: PastaFagioli_12 Start: 8405, Stop: 9199, Start Num: 44

Candidate Starts for PastaFagioli_12:

(Start: 44 @8405 has 243 MA's), (74, 8552), (75, 8567), (102, 8759), (111, 8804), (121, 8846), (159, 9044),

Gene: Patt_19 Start: 11466, Stop: 12077, Start Num: 39

Candidate Starts for Patt_19:

(Start: 39 @11466 has 133 MA's), (54, 11532), (56, 11538), (58, 11547), (65, 11586), (75, 11643), (76, 11649), (77, 11670), (78, 11682), (86, 11739), (90, 11754), (102, 11838), (103, 11844), (110, 11880), (111, 11883), (114, 11895), (116, 11910), (129, 11967), (132, 11982), (139, 12006), (143, 12036),

Gene: Peanam_18 Start: 9573, Stop: 10184, Start Num: 39

Candidate Starts for Peanam_18:

(Start: 39 @9573 has 133 MA's), (49, 9615), (75, 9753), (78, 9792), (86, 9849), (90, 9864), (95, 9909), (102, 9948), (103, 9954), (104, 9957), (114, 10005), (116, 10020), (129, 10077),

Gene: Peeb_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Peeb_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (92, 10163), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Peel_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Peel_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Pelletreau_14 Start: 8960, Stop: 9544, Start Num: 44

Candidate Starts for Pelletreau_14:

(Start: 44 @8960 has 243 MA's), (126, 9428), (141, 9497), (145, 9509),

Gene: Periodt_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Periodt_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Pharb_17 Start: 10403, Stop: 11017, Start Num: 39

Candidate Starts for Pharb_17:

(Start: 39 @10403 has 133 MA's), (49, 10451), (86, 10685), (90, 10700), (95, 10745), (102, 10784), (103, 10790), (104, 10793), (111, 10829), (114, 10841), (116, 10856), (129, 10913), (132, 10928), (139, 10952),

Gene: PhelpsODU_17 Start: 9556, Stop: 10170, Start Num: 36

Candidate Starts for PhelpsODU_17:

(Start: 36 @9556 has 102 MA's), (40, 9568), (49, 9601), (78, 9778), (86, 9835), (90, 9850), (92, 9865), (95, 9895), (102, 9934), (103, 9940), (114, 9991), (120, 10018), (132, 10078), (140, 10105),

Gene: PhigPhack_12 Start: 8349, Stop: 9146, Start Num: 44

Candidate Starts for PhigPhack_12:

(9, 8145), (10, 8163), (23, 8265), (Start: 39 @8319 has 133 MA's), (Start: 44 @8349 has 243 MA's), (46, 8355), (74, 8496), (75, 8511), (102, 8703), (121, 8790), (159, 8991), (175, 9087),

Gene: Phisb_12 Start: 8314, Stop: 9111, Start Num: 44

Candidate Starts for Phisb_12:

(4, 8026), (8, 8107), (9, 8110), (10, 8128), (Start: 39 @8284 has 133 MA's), (Start: 44 @8314 has 243 MA's), (46, 8320), (74, 8461), (75, 8476), (96, 8632), (102, 8668), (111, 8713), (121, 8755), (159, 8956),

Gene: Phish_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Phish_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: PhluffyCoco_12 Start: 8378, Stop: 8959, Start Num: 44

Candidate Starts for PhluffyCoco_12:

(Start: 44 @8378 has 243 MA's), (49, 8399), (95, 8687), (111, 8771), (120, 8810), (121, 8813), (126, 8846), (141, 8915), (148, 8945),

Gene: Phrank_17 Start: 9499, Stop: 10113, Start Num: 36

Candidate Starts for Phrank_17:

(Start: 36 @9499 has 102 MA's), (40, 9511), (49, 9544), (78, 9721), (86, 9778), (90, 9793), (92, 9808), (95, 9838), (102, 9877), (103, 9883), (120, 9961), (132, 10021), (140, 10048),

Gene: Phreak_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Phreak_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Piatt_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Piatt_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: PinkFriday_11 Start: 7979, Stop: 8884, Start Num: 44

Candidate Starts for PinkFriday_11:

(Start: 44 @7979 has 243 MA's), (60, 8054), (75, 8135), (82, 8201), (83, 8204), (89, 8240), (95, 8288), (97, 8294), (98, 8297), (112, 8366), (136, 8474), (152, 8570), (166, 8648), (170, 8678), (179, 8735),

Gene: PinkYoshi_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for PinkYoshi_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Pinnie_14 Start: 10537, Stop: 11160, Start Num: 39

Candidate Starts for Pinnie_14:

(Start: 39 @10537 has 133 MA's), (41, 10564), (53, 10615), (65, 10672), (74, 10714), (75, 10729), (86, 10825), (90, 10840), (94, 10864), (95, 10885), (102, 10924), (106, 10948), (116, 10996), (122, 11020), (123, 11026), (132, 11068),

Gene: PitaDog_11 Start: 7927, Stop: 8835, Start Num: 44

Candidate Starts for PitaDog_11:

(Start: 44 @7927 has 243 MA's), (75, 8083), (97, 8242), (98, 8245), (136, 8425), (161, 8575), (166, 8599), (170, 8629), (179, 8686),

Gene: Pixie_17 Start: 10319, Stop: 10930, Start Num: 38

Candidate Starts for Pixie_17:

(Start: 38 @10319 has 6 MA's), (49, 10364), (78, 10541), (86, 10598), (90, 10613), (95, 10658), (102, 10697), (103, 10703), (104, 10706), (111, 10742), (114, 10754), (116, 10769), (129, 10826), (132, 10841), (139, 10865),

Gene: Plagueis_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Plagueis_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Pokerus_17 Start: 10458, Stop: 11072, Start Num: 36

Candidate Starts for Pokerus_17:

(Start: 36 @10458 has 102 MA's), (49, 10503), (74, 10626), (78, 10680), (86, 10737), (90, 10752), (102, 10836), (103, 10842), (111, 10881), (114, 10893), (120, 10920), (129, 10965), (132, 10980), (139, 11004),

Gene: Polka_13 Start: 8803, Stop: 9384, Start Num: 44

Candidate Starts for Polka_13:

(Start: 44 @8803 has 243 MA's), (49, 8824), (68, 8911), (75, 8959), (95, 9112), (111, 9196), (119, 9232), (121, 9238), (126, 9271), (141, 9340),

Gene: Pollux_14 Start: 8717, Stop: 9562, Start Num: 44

Candidate Starts for Pollux_14:

(Start: 44 @8717 has 243 MA's), (60, 8786), (63, 8798), (102, 9062), (111, 9107), (113, 9116), (131, 9203), (144, 9257),

Gene: Pons_13 Start: 7709, Stop: 8545, Start Num: 44

Candidate Starts for Pons_13:

(6, 7490), (13, 7547), (21, 7595), (30, 7655), (Start: 44 @7709 has 243 MA's), (51, 7742), (79, 7928), (91, 7988), (92, 8000), (133, 8201), (136, 8210), (137, 8216), (144, 8249), (149, 8279), (159, 8324), (182, 8486),

Gene: Posh_14 Start: 8717, Stop: 9562, Start Num: 44

Candidate Starts for Posh_14:

(Start: 44 @8717 has 243 MA's), (60, 8786), (63, 8798), (102, 9062), (111, 9107), (113, 9116), (131, 9203), (144, 9257),

Gene: PotPie_13 Start: 8560, Stop: 9399, Start Num: 44

Candidate Starts for PotPie_13:

(21, 8446), (30, 8506), (Start: 44 @8560 has 243 MA's), (51, 8593), (79, 8779), (91, 8839), (92, 8851), (133, 9052), (136, 9061), (137, 9067), (144, 9100), (149, 9130), (159, 9175), (174, 9265),

Gene: Potatoes_15 Start: 10848, Stop: 11756, Start Num: 44

Candidate Starts for Potatoes_15:

(Start: 44 @10848 has 243 MA's), (75, 11004), (89, 11109), (98, 11166), (136, 11346), (140, 11361), (161, 11496), (166, 11520), (170, 11550), (179, 11607),

Gene: Preamble_11 Start: 7937, Stop: 8845, Start Num: 44

Candidate Starts for Preamble_11:

(Start: 44 @7937 has 243 MA's), (75, 8093), (89, 8198), (95, 8246), (97, 8252), (98, 8255), (136, 8435), (138, 8444), (149, 8510), (152, 8531), (166, 8609), (170, 8639), (173, 8657), (179, 8696),

Gene: Prithvi_18 Start: 10468, Stop: 11082, Start Num: 36

Candidate Starts for Prithvi_18:

(Start: 36 @10468 has 102 MA's), (49, 10513), (74, 10636), (78, 10690), (86, 10747), (90, 10762), (102, 10846), (103, 10852), (111, 10891), (114, 10903), (129, 10975), (132, 10990), (139, 11014), (150, 11071),

Gene: Psycho_16 Start: 10498, Stop: 11109, Start Num: 39

Candidate Starts for Psycho_16:

(Start: 39 @10498 has 133 MA's), (49, 10543), (86, 10777), (90, 10792), (92, 10807), (102, 10876), (103, 10882), (111, 10921), (114, 10933), (116, 10948), (129, 11005), (132, 11020), (139, 11044), (143, 11074),

Gene: PsychoKiller_13 Start: 7939, Stop: 8781, Start Num: 44

Candidate Starts for PsychoKiller_13:

(Start: 44 @7939 has 243 MA's), (51, 7972), (79, 8158), (92, 8230), (111, 8329), (133, 8431), (136, 8440), (137, 8446), (144, 8479), (153, 8515), (154, 8524), (181, 8710), (182, 8716),

Gene: Pterodactyl_11 Start: 7928, Stop: 8836, Start Num: 44

Candidate Starts for Pterodactyl_11:

(Start: 44 @7928 has 243 MA's), (75, 8084), (97, 8243), (98, 8246), (101, 8264), (136, 8426), (161, 8576), (166, 8600), (170, 8630), (179, 8687),

Gene: Pumancara_11 Start: 7978, Stop: 8883, Start Num: 44

Candidate Starts for Pumancara_11:

(Start: 44 @7978 has 243 MA's), (60, 8053), (75, 8134), (82, 8200), (89, 8239), (95, 8287), (98, 8296), (112, 8365), (136, 8473), (152, 8569), (166, 8647), (170, 8677), (179, 8734),

Gene: Pytheas_14 Start: 8564, Stop: 9409, Start Num: 44

Candidate Starts for Pytheas_14:

(Start: 44 @8564 has 243 MA's), (60, 8633), (63, 8645), (102, 8909), (111, 8954), (113, 8963), (144, 9104),

Gene: QMacho_13 Start: 8804, Stop: 9601, Start Num: 44

Candidate Starts for QMacho_13:

(10, 8618), (23, 8720), (Start: 39 @8774 has 133 MA's), (Start: 44 @8804 has 243 MA's), (46, 8810), (74, 8951), (75, 8966), (102, 9158), (111, 9203), (121, 9245), (159, 9446),

Gene: Quasar_13 Start: 8548, Stop: 9390, Start Num: 44

Candidate Starts for Quasar_13:

(Start: 44 @8548 has 243 MA's), (51, 8581), (92, 8839), (111, 8938), (133, 9040), (136, 9049), (137, 9055), (144, 9088), (153, 9124), (154, 9133), (181, 9319), (182, 9325),

Gene: Quenya_13 Start: 8462, Stop: 9052, Start Num: 44

Candidate Starts for Quenya_13:

(Start: 44 @8462 has 243 MA's), (46, 8468), (49, 8483), (55, 8510), (69, 8573), (74, 8606), (75, 8621), (95, 8774), (102, 8813), (103, 8819), (111, 8858), (113, 8867), (120, 8897), (124, 8918),

Gene: QuincyRose_17 Start: 10521, Stop: 11135, Start Num: 36

Candidate Starts for QuincyRose_17:

(Start: 36 @10521 has 102 MA's), (49, 10566), (74, 10689), (78, 10743), (86, 10800), (90, 10815), (102, 10899), (103, 10905), (111, 10944), (114, 10956), (120, 10983), (129, 11028), (132, 11043), (139, 11067),

Gene: RAP15_15 Start: 10854, Stop: 11762, Start Num: 44

Candidate Starts for RAP15_15:

(Start: 44 @10854 has 243 MA's), (75, 11010), (89, 11115), (98, 11172), (136, 11352), (140, 11367), (161, 11502), (166, 11526), (170, 11556), (179, 11613),

Gene: Rabbs_13 Start: 9837, Stop: 10457, Start Num: 39

Candidate Starts for Rabbs_13:

(Start: 39 @9837 has 133 MA's), (53, 9912), (74, 10011), (75, 10026), (86, 10122), (90, 10137), (92, 10152), (94, 10161), (95, 10182), (102, 10221), (106, 10245), (108, 10254), (111, 10266), (122, 10317), (123, 10323), (128, 10347), (132, 10365), (139, 10389),

Gene: Ramen_18 Start: 10504, Stop: 11118, Start Num: 36

Candidate Starts for Ramen_18:

(Start: 36 @10504 has 102 MA's), (49, 10549), (74, 10672), (78, 10726), (86, 10783), (90, 10798), (102, 10882), (103, 10888), (111, 10927), (114, 10939), (120, 10966), (129, 11011), (132, 11026), (139, 11050), (150, 11107),

Gene: RanchParmCat_16 Start: 8645, Stop: 9493, Start Num: 44

Candidate Starts for RanchParmCat_16:

(Start: 44 @8645 has 243 MA's), (51, 8678), (79, 8864), (125, 9110), (127, 9122), (133, 9146), (137, 9161), (153, 9230), (169, 9323), (170, 9332), (187, 9476),

Gene: Rando14_16 Start: 9500, Stop: 10111, Start Num: 39

Candidate Starts for Rando14_16:

(Start: 39 @9500 has 133 MA's), (49, 9545), (78, 9722), (86, 9779), (90, 9794), (92, 9809), (95, 9839), (102, 9878), (103, 9884), (111, 9923), (114, 9935), (116, 9950), (120, 9962), (129, 10007), (132, 10022), (139, 10046), (143, 10076), (149, 10097),

Gene: Rapunzel97_18 Start: 10505, Stop: 11119, Start Num: 36

Candidate Starts for Rapunzel97_18:

(Start: 36 @10505 has 102 MA's), (49, 10550), (74, 10673), (78, 10727), (86, 10784), (90, 10799), (102, 10883), (103, 10889), (111, 10928), (114, 10940), (120, 10967), (129, 11012), (132, 11027), (139, 11051), (150, 11108),

Gene: Rattail_12 Start: 8429, Stop: 9010, Start Num: 44

Candidate Starts for Rattail_12:

(Start: 44 @8429 has 243 MA's), (49, 8450), (95, 8738), (111, 8822), (120, 8861), (121, 8864), (126, 8897), (141, 8966), (148, 8996),

Gene: RcigaStruga_15 Start: 10859, Stop: 11767, Start Num: 43

Candidate Starts for RcigaStruga_15:

(Start: 43 @10859 has 9 MA's), (75, 11015), (89, 11120), (95, 11168), (136, 11357), (138, 11366), (149, 11432), (166, 11531), (170, 11561), (178, 11612), (179, 11618),

Gene: RedBaron_14 Start: 7984, Stop: 8826, Start Num: 44

Candidate Starts for RedBaron_14:

(Start: 44 @7984 has 243 MA's), (51, 8017), (79, 8203), (92, 8275), (111, 8374), (133, 8476), (136, 8485), (137, 8491), (144, 8524), (153, 8560), (154, 8569), (181, 8755), (182, 8761),

Gene: RedFox_12 Start: 8378, Stop: 8959, Start Num: 44

Candidate Starts for RedFox_12:

(Start: 44 @8378 has 243 MA's), (49, 8399), (95, 8687), (111, 8771), (120, 8810), (121, 8813), (126, 8846), (141, 8915), (148, 8945),

Gene: Remy19_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Remy19_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Renaissance_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Renaissance_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Renna12_13 Start: 8581, Stop: 9165, Start Num: 44

Candidate Starts for Renna12_13:

(Start: 44 @8581 has 243 MA's), (49, 8602), (95, 8890), (111, 8974), (120, 9013), (121, 9016), (141, 9118),

Gene: Reptar3000_19 Start: 11468, Stop: 12079, Start Num: 39

Candidate Starts for Reptar3000_19:

(Start: 39 @11468 has 133 MA's), (54, 11534), (56, 11540), (58, 11549), (65, 11588), (75, 11645), (76, 11651), (77, 11672), (78, 11684), (86, 11741), (90, 11756), (102, 11840), (103, 11846), (110, 11882), (111, 11885), (114, 11897), (116, 11912), (129, 11969), (132, 11984), (139, 12008), (143, 12038),

Gene: Richo_18 Start: 9573, Stop: 10184, Start Num: 39

Candidate Starts for Richo_18:

(Start: 39 @9573 has 133 MA's), (49, 9615), (75, 9753), (78, 9792), (86, 9849), (90, 9864), (95, 9909), (102, 9948), (103, 9954), (104, 9957), (114, 10005), (116, 10020), (129, 10077),

Gene: Riovina_11 Start: 7979, Stop: 8884, Start Num: 44

Candidate Starts for Riovina_11:

(Start: 44 @7979 has 243 MA's), (69, 8090), (75, 8135), (98, 8297), (112, 8366), (135, 8471), (136, 8474), (140, 8489), (166, 8648), (170, 8678), (173, 8696), (179, 8735), (186, 8813),

Gene: Riverdale_15 Start: 10785, Stop: 11693, Start Num: 44

Candidate Starts for Riverdale_15:

(Start: 44 @10785 has 243 MA's), (75, 10941), (89, 11046), (98, 11103), (136, 11283), (140, 11298), (166, 11457), (170, 11487), (179, 11544),

Gene: Rollins_11 Start: 8156, Stop: 8740, Start Num: 44

Candidate Starts for Rollins_11:

(Start: 44 @8156 has 243 MA's), (46, 8162), (49, 8177), (50, 8183), (75, 8315), (95, 8468), (97, 8474), (102, 8507), (117, 8582), (119, 8588), (121, 8594),

Gene: Rona_12 Start: 8556, Stop: 9350, Start Num: 44

Candidate Starts for Rona_12:

(Start: 44 @8556 has 243 MA's), (46, 8562), (60, 8631), (74, 8703), (75, 8718), (102, 8910), (111, 8955), (121, 8997), (123, 9012), (147, 9129), (159, 9195), (177, 9303),

Gene: Rosmarinus_18 Start: 10532, Stop: 11143, Start Num: 36

Candidate Starts for Rosmarinus_18:

(Start: 36 @10532 has 102 MA's), (49, 10574), (74, 10697), (78, 10751), (86, 10808), (90, 10823), (102, 10907), (103, 10913), (111, 10952), (114, 10964), (120, 10991), (129, 11036), (132, 11051), (139, 11075), (150, 11132),

Gene: Rozby_15 Start: 10785, Stop: 11693, Start Num: 44

Candidate Starts for Rozby_15:

(Start: 44 @10785 has 243 MA's), (75, 10941), (89, 11046), (98, 11103), (136, 11283), (140, 11298), (161, 11433), (166, 11457), (170, 11487), (179, 11544),

Gene: Ruchi_13 Start: 9071, Stop: 9901, Start Num: 44

Candidate Starts for Ruchi_13:

(Start: 44 @9071 has 243 MA's), (95, 9380), (107, 9446), (120, 9503), (136, 9575), (141, 9608), (151, 9662), (160, 9707), (172, 9782),

Gene: Ruthiejr_18 Start: 11323, Stop: 11934, Start Num: 39

Candidate Starts for Ruthiejr_18:

(Start: 39 @11323 has 133 MA's), (54, 11389), (56, 11395), (65, 11443), (75, 11500), (76, 11506), (77, 11527), (78, 11539), (86, 11596), (90, 11611), (92, 11626), (102, 11695), (103, 11701), (116, 11767), (129, 11824), (132, 11839), (139, 11863), (143, 11893),

Gene: SamScheppers_17 Start: 11243, Stop: 11854, Start Num: 39

Candidate Starts for SamScheppers_17:

(Start: 39 @11243 has 133 MA's), (54, 11309), (56, 11315), (65, 11363), (75, 11420), (76, 11426), (77, 11447), (78, 11459), (86, 11516), (90, 11531), (102, 11615), (103, 11621), (111, 11660), (114, 11672), (116, 11687), (129, 11744), (132, 11759), (139, 11783), (143, 11813),

Gene: SamuelLPlaqson_18 Start: 10446, Stop: 11060, Start Num: 36

Candidate Starts for SamuelLPlaqson_18:

(Start: 36 @10446 has 102 MA's), (41, 10464), (49, 10491), (78, 10668), (86, 10725), (90, 10740), (92, 10755), (95, 10785), (102, 10824), (103, 10830), (111, 10869), (114, 10881), (120, 10908), (129, 10953), (132, 10968), (139, 10992),

Gene: SanaSana_13 Start: 8569, Stop: 9366, Start Num: 44

Candidate Starts for SanaSana_13:

(Start: 44 @8569 has 243 MA's), (46, 8575), (61, 8653), (74, 8719), (75, 8734), (97, 8893), (102, 8926), (111, 8971), (159, 9211),

Gene: SansAfet_12 Start: 8331, Stop: 9128, Start Num: 44

Candidate Starts for SansAfet_12:

(9, 8127), (10, 8145), (23, 8247), (Start: 39 @8301 has 133 MA's), (Start: 44 @8331 has 243 MA's), (46, 8337), (74, 8478), (75, 8493), (102, 8685), (121, 8772), (159, 8973), (175, 9069),

Gene: SarBear_12 Start: 8297, Stop: 9094, Start Num: 44

Candidate Starts for SarBear_12:

(9, 8093), (10, 8111), (Start: 39 @8267 has 133 MA's), (Start: 44 @8297 has 243 MA's), (46, 8303), (74, 8444), (75, 8459), (102, 8651), (121, 8738), (159, 8939), (175, 9035),

Gene: Savage2526_15 Start: 10848, Stop: 11756, Start Num: 44

Candidate Starts for Savage2526_15:

(Start: 44 @10848 has 243 MA's), (75, 11004), (89, 11109), (98, 11166), (136, 11346), (140, 11361), (161, 11496), (166, 11520), (170, 11550), (179, 11607),

Gene: Scarlett_17 Start: 9505, Stop: 10116, Start Num: 36

Candidate Starts for Scarlett_17:

(Start: 36 @9505 has 102 MA's), (49, 9547), (86, 9781), (90, 9796), (92, 9811), (95, 9841), (102, 9880), (103, 9886), (111, 9925), (114, 9937), (129, 10009), (132, 10024), (139, 10048), (143, 10078), (147, 10099),

Gene: Schiebel_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Schiebel_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Scuttle_15 Start: 10854, Stop: 11762, Start Num: 44

Candidate Starts for Scuttle_15:

(Start: 44 @10854 has 243 MA's), (75, 11010), (89, 11115), (98, 11172), (136, 11352), (140, 11367), (166, 11526), (170, 11556), (179, 11613),

Gene: Sergei_11 Start: 7981, Stop: 8886, Start Num: 44

Candidate Starts for Sergei_11:

(Start: 44 @7981 has 243 MA's), (75, 8137), (82, 8203), (89, 8242), (95, 8290), (98, 8299), (136, 8476), (152, 8572), (166, 8650), (170, 8680), (179, 8737),

Gene: SgtBeansprout_14 Start: 9777, Stop: 10388, Start Num: 36

Candidate Starts for SgtBeansprout_14:

(Start: 36 @9777 has 102 MA's), (Start: 44 @9798 has 243 MA's), (49, 9819), (74, 9942), (75, 9957), (78, 9996), (86, 10053), (90, 10068), (95, 10113), (102, 10152), (103, 10158), (111, 10197), (114, 10209), (129, 10281), (132, 10296), (139, 10320), (143, 10350),

Gene: ShaboiShabazz_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for ShaboiShabazz_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Shadow1_16 Start: 9392, Stop: 10006, Start Num: 36

Candidate Starts for Shadow1_16:

(Start: 36 @9392 has 102 MA's), (49, 9437), (78, 9614), (86, 9671), (90, 9686), (95, 9731), (102, 9770), (103, 9776), (132, 9914), (140, 9941),

Gene: Shaobing_18 Start: 9573, Stop: 10184, Start Num: 39

Candidate Starts for Shaobing_18:

(Start: 39 @9573 has 133 MA's), (49, 9615), (75, 9753), (78, 9792), (86, 9849), (90, 9864), (95, 9909), (102, 9948), (103, 9954), (104, 9957), (114, 10005), (116, 10020), (129, 10077),

Gene: Sharkboy_12 Start: 8555, Stop: 9349, Start Num: 44

Candidate Starts for Sharkboy_12:

(Start: 44 @8555 has 243 MA's), (46, 8561), (60, 8630), (74, 8702), (75, 8717), (102, 8909), (111, 8954), (121, 8996), (123, 9011), (147, 9128), (159, 9194), (177, 9302),

Gene: Shayna_11 Start: 8161, Stop: 8745, Start Num: 44

Candidate Starts for Shayna_11:

(Start: 44 @8161 has 243 MA's), (49, 8182), (74, 8299), (95, 8467), (102, 8506), (118, 8584),

Gene: SheckWes_12 Start: 7697, Stop: 8533, Start Num: 44

Candidate Starts for SheckWes_12:

(21, 7583), (30, 7643), (Start: 44 @7697 has 243 MA's), (51, 7730), (79, 7916), (91, 7976), (92, 7988), (133, 8189), (136, 8198), (137, 8204), (144, 8237), (149, 8267), (159, 8312), (182, 8474),

Gene: ShedlockHolmes_17 Start: 10567, Stop: 11178, Start Num: 38

Candidate Starts for ShedlockHolmes_17:

(Start: 38 @10567 has 6 MA's), (49, 10612), (78, 10789), (86, 10846), (90, 10861), (95, 10906), (99, 10918), (102, 10945), (103, 10951), (104, 10954), (111, 10990), (114, 11002), (116, 11017), (129, 11074), (132, 11089), (139, 11113),

Gene: ShiaSurprise_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for ShiaSurprise_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: SirPhilip_17 Start: 9268, Stop: 9879, Start Num: 36

Candidate Starts for SirPhilip_17:

(Start: 36 @9268 has 102 MA's), (62, 9376), (75, 9448), (78, 9487), (86, 9544), (90, 9559), (95, 9604), (100, 9628), (102, 9643), (103, 9649), (111, 9688), (114, 9700), (132, 9787), (139, 9811), (147, 9862),

Gene: Sizemore_13 Start: 9855, Stop: 10469, Start Num: 39

Candidate Starts for Sizemore_13:

(Start: 39 @9855 has 133 MA's), (49, 9900), (53, 9924), (70, 10002), (74, 10023), (75, 10038), (86, 10134), (90, 10149), (94, 10173), (95, 10194), (102, 10233), (106, 10257), (108, 10266), (111, 10278), (123, 10335), (129, 10362), (132, 10377), (139, 10401),

Gene: SketchMex_12 Start: 7925, Stop: 8770, Start Num: 44

Candidate Starts for SketchMex_12:

(21, 7808), (30, 7868), (Start: 44 @7925 has 243 MA's), (51, 7958), (79, 8144), (92, 8216), (133, 8417), (137, 8432), (144, 8465), (154, 8510), (181, 8696), (182, 8702),

Gene: Skylord_11 Start: 8096, Stop: 8680, Start Num: 44

Candidate Starts for Skylord_11:

(Start: 44 @8096 has 243 MA's), (46, 8102), (49, 8117), (50, 8123), (75, 8255), (95, 8408), (97, 8414), (102, 8447), (117, 8522), (119, 8528), (121, 8534),

Gene: Slarp_19 Start: 11727, Stop: 12338, Start Num: 39

Candidate Starts for Slarp_19:

(Start: 39 @11727 has 133 MA's), (54, 11793), (56, 11799), (65, 11847), (75, 11904), (76, 11910), (77, 11931), (78, 11943), (86, 12000), (90, 12015), (102, 12099), (103, 12105), (111, 12144), (114, 12156), (116, 12171), (129, 12228), (132, 12243), (139, 12267), (143, 12297),

Gene: Slay_12 Start: 8773, Stop: 9570, Start Num: 44

Candidate Starts for Slay_12:

(9, 8569), (10, 8587), (Start: 39 @8743 has 133 MA's), (Start: 44 @8773 has 243 MA's), (46, 8779), (74, 8920), (75, 8935), (102, 9127), (121, 9214), (159, 9415), (175, 9511),

Gene: Sleepyhead_13 Start: 8334, Stop: 9200, Start Num: 44

Candidate Starts for Sleepyhead_13:

(Start: 44 @8334 has 243 MA's), (50, 8361), (57, 8388), (78, 8526), (129, 8811), (154, 8949),

Gene: Slimphazie_18 Start: 10505, Stop: 11119, Start Num: 36

Candidate Starts for Slimphazie_18:

(Start: 36 @10505 has 102 MA's), (49, 10550), (74, 10673), (78, 10727), (86, 10784), (90, 10799), (102, 10883), (103, 10889), (111, 10928), (114, 10940), (120, 10967), (129, 11012), (132, 11027), (139, 11051), (150, 11108),

Gene: Sneeze_13 Start: 9836, Stop: 10456, Start Num: 39

Candidate Starts for Sneeze_13:

(Start: 39 @9836 has 133 MA's), (53, 9911), (74, 10010), (75, 10025), (86, 10121), (90, 10136), (92, 10151), (94, 10160), (95, 10181), (102, 10220), (106, 10244), (108, 10253), (111, 10265), (122, 10316), (123, 10322), (128, 10346), (132, 10364), (139, 10388),

Gene: SoSeph_16 Start: 10657, Stop: 11268, Start Num: 39

Candidate Starts for SoSeph_16:

(Start: 39 @10657 has 133 MA's), (49, 10702), (78, 10879), (86, 10936), (90, 10951), (92, 10966), (102, 11035), (103, 11041), (111, 11080), (116, 11107), (125, 11146), (129, 11164), (132, 11179),

(139, 11203), (143, 11233),

Gene: Softsoap_12 Start: 8320, Stop: 9117, Start Num: 44

Candidate Starts for Softsoap_12:

(9, 8116), (10, 8134), (23, 8236), (Start: 39 @8290 has 133 MA's), (Start: 44 @8320 has 243 MA's), (46, 8326), (74, 8467), (75, 8482), (102, 8674), (121, 8761), (159, 8962), (175, 9058),

Gene: Sopespian_13 Start: 7939, Stop: 8781, Start Num: 44

Candidate Starts for Sopespian_13:

(Start: 44 @7939 has 243 MA's), (51, 7972), (79, 8158), (92, 8230), (111, 8329), (133, 8431), (136, 8440), (137, 8446), (144, 8479), (153, 8515), (154, 8524), (181, 8710), (182, 8716),

Gene: Spock_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Spock_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Squiracle_12 Start: 8549, Stop: 9136, Start Num: 44

Candidate Starts for Squiracle_12:

(Start: 44 @8549 has 243 MA's), (50, 8576), (74, 8690), (102, 8897), (108, 8930), (117, 8972), (118, 8975), (121, 8984),

Gene: Starburst_14 Start: 7939, Stop: 8781, Start Num: 44

Candidate Starts for Starburst_14:

(Start: 44 @7939 has 243 MA's), (51, 7972), (79, 8158), (92, 8230), (111, 8329), (133, 8431), (136, 8440), (137, 8446), (144, 8479), (153, 8515), (154, 8524), (181, 8710), (182, 8716),

Gene: Stargaze_13 Start: 10149, Stop: 10772, Start Num: 39

Candidate Starts for Stargaze_13:

(Start: 39 @10149 has 133 MA's), (53, 10227), (65, 10284), (74, 10326), (75, 10341), (86, 10437), (90, 10452), (94, 10476), (95, 10497), (102, 10536), (106, 10560), (116, 10608), (123, 10638), (132, 10680), (139, 10704),

Gene: SteamedHams_15 Start: 7954, Stop: 8799, Start Num: 44

Candidate Starts for SteamedHams_15:

(30, 7897), (Start: 44 @7954 has 243 MA's), (51, 7987), (79, 8173), (92, 8245), (133, 8446), (137, 8461), (144, 8494), (153, 8530), (154, 8539), (159, 8569), (181, 8725), (182, 8731),

Gene: Stinson_18 Start: 10468, Stop: 11079, Start Num: 37

Candidate Starts for Stinson_18:

(Start: 37 @10468 has 5 MA's), (49, 10510), (74, 10633), (78, 10687), (86, 10744), (90, 10759), (95, 10804), (102, 10843), (103, 10849), (111, 10888), (114, 10900), (120, 10927), (129, 10972), (132, 10987), (139, 11011),

Gene: Stoor_12 Start: 8566, Stop: 9363, Start Num: 44

Candidate Starts for Stoor_12:

(Start: 44 @8566 has 243 MA's), (46, 8572), (61, 8650), (74, 8716), (75, 8731), (97, 8890), (102, 8923), (111, 8968), (159, 9208),

Gene: Strobilo_14 Start: 8532, Stop: 9146, Start Num: 35

Candidate Starts for Strobilo_14:

(Start: 35 @8532 has 8 MA's), (48, 8571), (49, 8580), (86, 8814), (90, 8829), (92, 8844), (95, 8874), (102, 8913), (103, 8919), (110, 8955), (114, 8970), (120, 8997), (129, 9042), (132, 9057), (139, 9081),

Gene: Stromboli_12 Start: 8570, Stop: 9367, Start Num: 44

Candidate Starts for Stromboli_12:

(Start: 44 @8570 has 243 MA's), (46, 8576), (74, 8720), (75, 8735), (97, 8894), (102, 8927), (111, 8972), (147, 9146), (159, 9212),

Gene: StuartMinion_12 Start: 8406, Stop: 8987, Start Num: 44

Candidate Starts for StuartMinion_12:

(5, 8169), (7, 8190), (17, 8265), (31, 8355), (Start: 44 @8406 has 243 MA's), (49, 8427), (95, 8715), (97, 8721), (111, 8799), (120, 8838), (121, 8841), (148, 8973),

Gene: Sulley_18 Start: 10474, Stop: 11088, Start Num: 36

Candidate Starts for Sulley_18:

(Start: 36 @10474 has 102 MA's), (49, 10519), (74, 10642), (78, 10696), (86, 10753), (90, 10768), (102, 10852), (103, 10858), (111, 10897), (114, 10909), (120, 10936), (129, 10981), (132, 10996), (139, 11020), (150, 11077),

Gene: SummitAcademy_12 Start: 7775, Stop: 8614, Start Num: 44

Candidate Starts for SummitAcademy_12:

(21, 7661), (30, 7721), (Start: 44 @7775 has 243 MA's), (51, 7808), (79, 7994), (91, 8054), (92, 8066), (133, 8267), (136, 8276), (137, 8282), (144, 8315), (149, 8345), (159, 8390), (174, 8480),

Gene: Sunflower1121_16 Start: 9403, Stop: 10017, Start Num: 36

Candidate Starts for Sunflower1121_16:

(Start: 36 @9403 has 102 MA's), (49, 9448), (78, 9625), (86, 9682), (90, 9697), (95, 9742), (102, 9781), (103, 9787), (132, 9925), (140, 9952),

Gene: SunnyD_11 Start: 8161, Stop: 8745, Start Num: 44

Candidate Starts for SunnyD_11:

(Start: 44 @8161 has 243 MA's), (49, 8182), (74, 8299), (95, 8467), (102, 8506), (118, 8584),

Gene: Supakev_11 Start: 7981, Stop: 8886, Start Num: 44

Candidate Starts for Supakev_11:

(Start: 44 @7981 has 243 MA's), (75, 8137), (98, 8299), (112, 8368), (136, 8476), (140, 8491), (166, 8650), (170, 8680), (173, 8698), (179, 8737), (184, 8797), (186, 8815),

Gene: Suppi_15 Start: 10870, Stop: 11778, Start Num: 44

Candidate Starts for Suppi_15:

(Start: 44 @10870 has 243 MA's), (49, 10891), (75, 11026), (98, 11188), (102, 11218), (129, 11338), (135, 11365), (136, 11368), (140, 11383), (150, 11446), (152, 11464), (166, 11542), (170, 11572), (171, 11578), (178, 11623), (179, 11629),

Gene: Survivors_15 Start: 8732, Stop: 9571, Start Num: 44

Candidate Starts for Survivors_15:

(Start: 44 @8732 has 243 MA's), (51, 8765), (88, 8993), (103, 9074), (113, 9122), (125, 9179), (127, 9191), (133, 9215), (137, 9230), (157, 9323), (162, 9356), (165, 9368), (166, 9371), (183, 9506), (188, 9554),

Gene: SweatNTears_15 Start: 8436, Stop: 9281, Start Num: 44

Candidate Starts for SweatNTears_15:

(21, 8319), (30, 8379), (Start: 44 @8436 has 243 MA's), (51, 8469), (79, 8655), (92, 8727), (133, 8928), (137, 8943), (144, 8976), (154, 9021), (181, 9207), (182, 9213),

Gene: Sweets_13 Start: 9849, Stop: 10463, Start Num: 39

Candidate Starts for Sweets_13:

(Start: 39 @9849 has 133 MA's), (49, 9894), (53, 9918), (70, 9996), (74, 10017), (75, 10032), (86, 10128), (90, 10143), (94, 10167), (95, 10188), (102, 10227), (106, 10251), (108, 10260), (111, 10272), (123, 10329), (129, 10356), (132, 10371), (139, 10395),

Gene: Swervy_12 Start: 8297, Stop: 9094, Start Num: 44

Candidate Starts for Swervy_12:

(9, 8093), (10, 8111), (Start: 39 @8267 has 133 MA's), (Start: 44 @8297 has 243 MA's), (46, 8303), (74, 8444), (75, 8459), (102, 8651), (121, 8738), (159, 8939), (175, 9035),

Gene: Syra333_17 Start: 9500, Stop: 10114, Start Num: 36

Candidate Starts for Syra333_17:

(Start: 36 @9500 has 102 MA's), (49, 9545), (78, 9722), (86, 9779), (90, 9794), (92, 9809), (95, 9839), (102, 9878), (103, 9884), (132, 10022), (140, 10049), (147, 10097),

Gene: TBond007_17 Start: 10318, Stop: 10929, Start Num: 38

Candidate Starts for TBond007_17:

(Start: 38 @10318 has 6 MA's), (49, 10363), (78, 10540), (86, 10597), (90, 10612), (95, 10657), (102, 10696), (103, 10702), (104, 10705), (111, 10741), (114, 10753), (116, 10768), (129, 10825), (132, 10840), (139, 10864),

Gene: TClif_17 Start: 9491, Stop: 10102, Start Num: 36

Candidate Starts for TClif_17:

(24, 9443), (Start: 36 @9491 has 102 MA's), (Start: 45 @9515 has 1 MA's), (75, 9671), (78, 9710), (86, 9767), (90, 9782), (92, 9797), (95, 9827), (102, 9866), (103, 9872), (111, 9911), (114, 9923), (120, 9950), (132, 10010), (139, 10034), (142, 10061), (147, 10085),

Gene: TM4_14 Start: 8590, Stop: 9204, Start Num: 35

Candidate Starts for TM4_14:

(Start: 35 @8590 has 8 MA's), (49, 8638), (86, 8872), (90, 8887), (92, 8902), (95, 8932), (100, 8956), (102, 8971), (103, 8977), (111, 9016), (114, 9028), (116, 9043), (129, 9100), (132, 9115), (139, 9139), (143, 9169),

Gene: Tachez_18 Start: 10467, Stop: 11081, Start Num: 36

Candidate Starts for Tachez_18:

(Start: 36 @10467 has 102 MA's), (49, 10512), (74, 10635), (78, 10689), (86, 10746), (90, 10761), (102, 10845), (103, 10851), (111, 10890), (114, 10902), (120, 10929), (129, 10974), (132, 10989), (139, 11013),

Gene: Taheera_13 Start: 9846, Stop: 10466, Start Num: 39

Candidate Starts for Taheera_13:

(Start: 39 @9846 has 133 MA's), (53, 9921), (75, 10035), (86, 10131), (90, 10146), (92, 10161), (95, 10191), (102, 10230), (106, 10254), (108, 10263), (111, 10275), (122, 10326), (123, 10332), (128, 10356), (132, 10374), (139, 10398),

Gene: TaiwanKao_19 Start: 10474, Stop: 11088, Start Num: 36

Candidate Starts for TaiwanKao_19:

(Start: 36 @10474 has 102 MA's), (49, 10519), (74, 10642), (78, 10696), (86, 10753), (90, 10768), (102, 10852), (103, 10858), (111, 10897), (114, 10909), (120, 10936), (129, 10981), (132, 10996),

(139, 11020), (150, 11077),

Gene: Taquito_17 Start: 11314, Stop: 11925, Start Num: 39

Candidate Starts for Taquito_17:

(Start: 39 @11314 has 133 MA's), (54, 11380), (56, 11386), (65, 11434), (75, 11491), (76, 11497), (77, 11518), (78, 11530), (86, 11587), (90, 11602), (92, 11617), (102, 11686), (103, 11692), (116, 11758), (129, 11815), (132, 11830), (139, 11854), (143, 11884),

Gene: TattModd_15 Start: 10848, Stop: 11756, Start Num: 44

Candidate Starts for TattModd_15:

(Start: 44 @10848 has 243 MA's), (75, 11004), (89, 11109), (98, 11166), (140, 11361), (166, 11520), (170, 11550), (179, 11607),

Gene: TaylorSipt_13 Start: 8839, Stop: 9423, Start Num: 44

Candidate Starts for TaylorSipt_13:

(Start: 44 @8839 has 243 MA's), (65, 8938), (120, 9271), (141, 9376), (145, 9388),

Gene: Teagster_11 Start: 8161, Stop: 8745, Start Num: 44

Candidate Starts for Teagster_11:

(Start: 44 @8161 has 243 MA's), (49, 8182), (95, 8467), (102, 8506), (118, 8584),

Gene: Temper16_11 Start: 7981, Stop: 8886, Start Num: 44

Candidate Starts for Temper16_11:

(Start: 44 @7981 has 243 MA's), (75, 8137), (82, 8203), (89, 8242), (95, 8290), (98, 8299), (136, 8476), (152, 8572), (166, 8650), (170, 8680), (179, 8737),

Gene: Terror_13 Start: 9846, Stop: 10466, Start Num: 39

Candidate Starts for Terror_13:

(Start: 39 @9846 has 133 MA's), (53, 9921), (75, 10035), (86, 10131), (90, 10146), (92, 10161), (95, 10191), (102, 10230), (106, 10254), (108, 10263), (111, 10275), (122, 10326), (123, 10332), (128, 10356), (132, 10374), (139, 10398),

Gene: Thyatira_16 Start: 10529, Stop: 11140, Start Num: 39

Candidate Starts for Thyatira_16:

(Start: 39 @10529 has 133 MA's), (49, 10574), (58, 10616), (78, 10751), (86, 10808), (90, 10823), (92, 10838), (102, 10907), (103, 10913), (111, 10952), (114, 10964), (116, 10979), (125, 11018), (129, 11036), (132, 11051), (139, 11075), (143, 11105),

Gene: Tierra_17 Start: 10220, Stop: 10834, Start Num: 36

Candidate Starts for Tierra_17:

(Start: 36 @10220 has 102 MA's), (40, 10232), (49, 10265), (78, 10442), (86, 10499), (90, 10514), (92, 10529), (95, 10559), (102, 10598), (103, 10604), (120, 10682), (132, 10742), (140, 10769),

Gene: TinaBug_13 Start: 9849, Stop: 10463, Start Num: 39

Candidate Starts for TinaBug_13:

(Start: 39 @9849 has 133 MA's), (49, 9894), (53, 9918), (74, 10017), (75, 10032), (86, 10128), (90, 10143), (92, 10158), (94, 10167), (95, 10188), (102, 10227), (106, 10251), (108, 10260), (111, 10272), (123, 10329), (129, 10356), (132, 10371), (139, 10395),

Gene: TingHuaYa_18 Start: 9532, Stop: 10146, Start Num: 39

Candidate Starts for TingHuaYa_18:

(Start: 39 @9532 has 133 MA's), (49, 9577), (75, 9715), (78, 9754), (86, 9811), (92, 9841), (95, 9871), (102, 9910), (103, 9916), (111, 9955), (129, 10039), (139, 10078), (143, 10108), (147, 10129),

Gene: TiniBug_18 Start: 10446, Stop: 11060, Start Num: 36

Candidate Starts for TiniBug_18:

(Start: 36 @10446 has 102 MA's), (41, 10464), (49, 10491), (78, 10668), (86, 10725), (90, 10740), (92, 10755), (95, 10785), (102, 10824), (103, 10830), (111, 10869), (114, 10881), (120, 10908), (129, 10953), (132, 10968), (139, 10992),

Gene: Tiri_18 Start: 10513, Stop: 11127, Start Num: 36

Candidate Starts for Tiri_18:

(Start: 36 @10513 has 102 MA's), (49, 10558), (74, 10681), (78, 10735), (86, 10792), (90, 10807), (102, 10891), (103, 10897), (111, 10936), (114, 10948), (120, 10975), (129, 11020), (132, 11035), (139, 11059),

Gene: Toad24_14 Start: 8961, Stop: 9545, Start Num: 44

Candidate Starts for Toad24_14:

(Start: 44 @8961 has 243 MA's), (126, 9429), (141, 9498), (145, 9510),

Gene: Tolls_15 Start: 7957, Stop: 8802, Start Num: 44

Candidate Starts for Tolls_15:

(30, 7900), (Start: 44 @7957 has 243 MA's), (51, 7990), (79, 8176), (92, 8248), (133, 8449), (137, 8464), (144, 8497), (153, 8533), (154, 8542), (159, 8572), (181, 8728), (182, 8734),

Gene: TomBrady_13 Start: 9855, Stop: 10469, Start Num: 39

Candidate Starts for TomBrady_13:

(Start: 39 @9855 has 133 MA's), (49, 9900), (53, 9924), (70, 10002), (74, 10023), (75, 10038), (86, 10134), (90, 10149), (94, 10173), (95, 10194), (102, 10233), (106, 10257), (108, 10266), (111, 10278), (123, 10335), (129, 10362), (132, 10377), (139, 10401),

Gene: Topper_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Topper_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Torres_14 Start: 9777, Stop: 10388, Start Num: 36

Candidate Starts for Torres_14:

(Start: 36 @9777 has 102 MA's), (Start: 44 @9798 has 243 MA's), (49, 9819), (74, 9942), (75, 9957), (78, 9996), (86, 10053), (90, 10068), (95, 10113), (102, 10152), (103, 10158), (111, 10197), (114, 10209), (129, 10281), (132, 10296), (139, 10320), (143, 10350),

Gene: TreyKay_18 Start: 10468, Stop: 11082, Start Num: 36

Candidate Starts for TreyKay_18:

(Start: 36 @10468 has 102 MA's), (49, 10513), (74, 10636), (78, 10690), (86, 10747), (90, 10762), (102, 10846), (103, 10852), (111, 10891), (114, 10903), (129, 10975), (132, 10990), (139, 11014), (150, 11071),

Gene: TribbleTrouble_16 Start: 10378, Stop: 10989, Start Num: 39

Candidate Starts for TribbleTrouble_16:

(Start: 39 @10378 has 133 MA's), (49, 10423), (78, 10600), (86, 10657), (90, 10672), (95, 10717), (102, 10756), (103, 10762), (104, 10765), (114, 10813), (116, 10828), (129, 10885), (132, 10900), (139, 10924),

Gene: Troje_13 Start: 7910, Stop: 8755, Start Num: 44

Candidate Starts for Troje_13:

(21, 7793), (30, 7853), (Start: 44 @7910 has 243 MA's), (51, 7943), (79, 8129), (92, 8201), (133, 8402), (137, 8417), (144, 8450), (154, 8495), (181, 8681), (182, 8687),

Gene: TruffulaTree_18 Start: 10501, Stop: 11115, Start Num: 36

Candidate Starts for TruffulaTree_18:

(Start: 36 @10501 has 102 MA's), (49, 10546), (74, 10669), (78, 10723), (86, 10780), (90, 10795), (102, 10879), (103, 10885), (111, 10924), (114, 10936), (120, 10963), (129, 11008), (132, 11023), (139, 11047), (150, 11104),

Gene: TukTuk_12 Start: 8357, Stop: 9154, Start Num: 44

Candidate Starts for TukTuk_12:

(9, 8153), (10, 8171), (Start: 39 @8327 has 133 MA's), (Start: 44 @8357 has 243 MA's), (46, 8363), (74, 8504), (75, 8519), (102, 8711), (121, 8798), (159, 8999),

Gene: Twitch_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Twitch_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (74, 10709), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Typhonomachy_14 Start: 7939, Stop: 8781, Start Num: 44

Candidate Starts for Typhonomachy_14:

(Start: 44 @7939 has 243 MA's), (51, 7972), (79, 8158), (92, 8230), (111, 8329), (133, 8431), (136, 8440), (137, 8446), (144, 8479), (153, 8515), (154, 8524), (181, 8710), (182, 8716),

Gene: Unicorn_17 Start: 9556, Stop: 10170, Start Num: 36

Candidate Starts for Unicorn_17:

(Start: 36 @9556 has 102 MA's), (40, 9568), (49, 9601), (78, 9778), (86, 9835), (90, 9850), (92, 9865), (95, 9895), (102, 9934), (103, 9940), (114, 9991), (120, 10018), (132, 10078), (140, 10105),

Gene: Urkel_18 Start: 10446, Stop: 11060, Start Num: 36

Candidate Starts for Urkel_18:

(Start: 36 @10446 has 102 MA's), (41, 10464), (49, 10491), (78, 10668), (86, 10725), (90, 10740), (92, 10755), (95, 10785), (102, 10824), (103, 10830), (111, 10869), (114, 10881), (120, 10908), (129, 10953), (132, 10968), (139, 10992),

Gene: Urla_11 Start: 7985, Stop: 8893, Start Num: 44

Candidate Starts for Urla_11:

(32, 7934), (33, 7937), (Start: 44 @7985 has 243 MA's), (49, 8006), (75, 8141), (89, 8246), (95, 8294), (98, 8303), (136, 8483), (149, 8558), (150, 8561), (152, 8579), (156, 8603), (166, 8657), (170, 8687), (171, 8693), (179, 8744),

Gene: Validus_18 Start: 9492, Stop: 10103, Start Num: 39

Candidate Starts for Validus_18:

(Start: 39 @9492 has 133 MA's), (49, 9534), (63, 9603), (65, 9615), (75, 9672), (78, 9711), (86, 9768), (90, 9783), (95, 9828), (102, 9867), (103, 9873), (104, 9876), (111, 9912), (116, 9939), (129, 9996), (140, 10038),

Gene: Vallejo_15 Start: 10786, Stop: 11694, Start Num: 44

Candidate Starts for Vallejo_15:

(Start: 44 @10786 has 243 MA's), (75, 10942), (89, 11047), (98, 11104), (136, 11284), (140, 11299), (161, 11434), (166, 11458), (170, 11488), (179, 11545),

Gene: Veliki_18 Start: 10544, Stop: 11155, Start Num: 36

Candidate Starts for Veliki_18:

(Start: 36 @10544 has 102 MA's), (49, 10586), (78, 10763), (86, 10820), (90, 10835), (102, 10919), (103, 10925), (111, 10964), (114, 10976), (120, 11003), (129, 11048), (132, 11063), (139, 11087), (150, 11144),

Gene: Vine_14 Start: 8704, Stop: 9543, Start Num: 44

Candidate Starts for Vine_14:

(21, 8590), (30, 8650), (Start: 44 @8704 has 243 MA's), (51, 8737), (79, 8923), (91, 8983), (92, 8995), (133, 9196), (136, 9205), (137, 9211), (144, 9244), (149, 9274), (159, 9319), (174, 9409),

Gene: Vitas_11 Start: 8096, Stop: 8680, Start Num: 44

Candidate Starts for Vitas_11:

(Start: 44 @8096 has 243 MA's), (46, 8102), (49, 8117), (50, 8123), (75, 8255), (95, 8408), (97, 8414), (102, 8447), (117, 8522), (119, 8528), (121, 8534),

Gene: ViviJ_15 Start: 10385, Stop: 10996, Start Num: 39

Candidate Starts for ViviJ_15:

(Start: 39 @10385 has 133 MA's), (49, 10430), (78, 10607), (86, 10664), (90, 10679), (92, 10694), (102, 10763), (103, 10769), (111, 10808), (116, 10835), (129, 10892), (132, 10907), (139, 10931), (143, 10961),

Gene: Vulpecula_13 Start: 9147, Stop: 9977, Start Num: 44

Candidate Starts for Vulpecula_13:

(Start: 44 @9147 has 243 MA's), (95, 9456), (107, 9522), (120, 9579), (136, 9651), (141, 9684), (145, 9696), (151, 9738), (158, 9768), (160, 9783), (172, 9858),

Gene: Vulture_11 Start: 7979, Stop: 8884, Start Num: 44

Candidate Starts for Vulture_11:

(Start: 44 @7979 has 243 MA's), (75, 8135), (98, 8297), (112, 8366), (135, 8471), (136, 8474), (140, 8489), (166, 8648), (170, 8678), (173, 8696), (179, 8735), (184, 8795), (186, 8813),

Gene: WalkingDead_12 Start: 8557, Stop: 9354, Start Num: 44

Candidate Starts for WalkingDead_12:

(Start: 44 @8557 has 243 MA's), (46, 8563), (74, 8707), (75, 8722), (97, 8881), (102, 8914), (111, 8959), (121, 9001), (147, 9133), (159, 9199),

Gene: Waterfoul_16 Start: 10551, Stop: 11162, Start Num: 39

Candidate Starts for Waterfoul_16:

(Start: 39 @10551 has 133 MA's), (49, 10596), (58, 10638), (78, 10773), (86, 10830), (90, 10845), (92, 10860), (102, 10929), (103, 10935), (111, 10974), (114, 10986), (116, 11001), (125, 11040), (129, 11058), (132, 11073), (139, 11097), (143, 11127),

Gene: Wawa_15 Start: 10823, Stop: 11731, Start Num: 44

Candidate Starts for Wawa_15:

(Start: 44 @10823 has 243 MA's), (75, 10979), (89, 11084), (98, 11141), (136, 11321), (140, 11336), (161, 11471), (166, 11495), (170, 11525), (179, 11582),

Gene: Wayne_15 Start: 10916, Stop: 11824, Start Num: 44

Candidate Starts for Wayne_15:

(Start: 44 @10916 has 243 MA's), (49, 10937), (75, 11072), (98, 11234), (102, 11264), (129, 11384), (135, 11411), (136, 11414), (140, 11429), (150, 11492), (152, 11510), (166, 11588), (170, 11618),

(171, 11624), (178, 11669), (179, 11675),

Gene: Wendigo_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Wendigo_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Westrich_14 Start: 8949, Stop: 9533, Start Num: 44

Candidate Starts for Westrich_14:

(Start: 44 @8949 has 243 MA's), (126, 9417), (141, 9486), (145, 9498),

Gene: Wintermute_19 Start: 11716, Stop: 12327, Start Num: 39

Candidate Starts for Wintermute_19:

(Start: 39 @11716 has 133 MA's), (54, 11782), (56, 11788), (65, 11836), (75, 11893), (76, 11899), (77, 11920), (78, 11932), (86, 11989), (90, 12004), (102, 12088), (103, 12094), (111, 12133), (114, 12145), (116, 12160), (129, 12217), (132, 12232), (139, 12256), (143, 12286),

Gene: WonderBoy_11 Start: 7936, Stop: 8844, Start Num: 44

Candidate Starts for WonderBoy_11:

(Start: 44 @7936 has 243 MA's), (75, 8092), (89, 8197), (97, 8251), (98, 8254), (101, 8272), (136, 8434), (140, 8449), (152, 8530), (166, 8608), (170, 8638), (179, 8695),

Gene: Wrigley_14 Start: 8561, Stop: 9406, Start Num: 44

Candidate Starts for Wrigley_14:

(Start: 44 @8561 has 243 MA's), (60, 8630), (63, 8642), (102, 8906), (111, 8951), (113, 8960), (131, 9047), (144, 9101),

Gene: Ximenita_18 Start: 9678, Stop: 10292, Start Num: 36

Candidate Starts for Ximenita_18:

(Start: 36 @9678 has 102 MA's), (49, 9723), (78, 9900), (86, 9957), (90, 9972), (92, 9987), (95, 10017), (102, 10056), (103, 10062), (114, 10113), (132, 10200), (140, 10227), (147, 10275),

Gene: Y10_19 Start: 11716, Stop: 12327, Start Num: 39

Candidate Starts for Y10_19:

(Start: 39 @11716 has 133 MA's), (54, 11782), (56, 11788), (65, 11836), (75, 11893), (76, 11899), (77, 11920), (78, 11932), (90, 12004), (102, 12088), (103, 12094), (111, 12133), (114, 12145), (116, 12160), (129, 12217), (132, 12232), (139, 12256), (143, 12286),

Gene: Y2_19 Start: 11716, Stop: 12327, Start Num: 39

Candidate Starts for Y2_19:

(Start: 39 @11716 has 133 MA's), (54, 11782), (56, 11788), (65, 11836), (75, 11893), (76, 11899), (77, 11920), (78, 11932), (90, 12004), (102, 12088), (103, 12094), (111, 12133), (114, 12145), (116, 12160), (129, 12217), (132, 12232), (139, 12256), (143, 12286),

Gene: Yakult_14 Start: 7841, Stop: 8674, Start Num: 44

Candidate Starts for Yakult_14:

(Start: 44 @7841 has 243 MA's), (51, 7874), (65, 7946), (72, 7964), (73, 7970), (79, 8048), (103, 8189), (105, 8204), (125, 8294), (127, 8306), (129, 8312), (133, 8330), (137, 8345), (155, 8423), (157, 8435), (170, 8513), (181, 8609), (187, 8657),

Gene: Yarn_12 Start: 7947, Stop: 8792, Start Num: 44

Candidate Starts for Yarn_12:

(30, 7890), (Start: 44 @7947 has 243 MA's), (51, 7980), (79, 8166), (92, 8238), (133, 8439), (137, 8454), (144, 8487), (153, 8523), (154, 8532), (159, 8562), (181, 8718), (182, 8724),

Gene: YoureAdopted_17 Start: 10477, Stop: 11088, Start Num: 36

Candidate Starts for YoureAdopted_17:

(Start: 36 @10477 has 102 MA's), (49, 10519), (74, 10642), (78, 10696), (86, 10753), (90, 10768), (102, 10852), (103, 10858), (111, 10897), (114, 10909), (120, 10936), (129, 10981), (132, 10996), (139, 11020), (150, 11077),

Gene: Yucky_15 Start: 8564, Stop: 9403, Start Num: 44

Candidate Starts for Yucky_15:

(21, 8450), (30, 8510), (Start: 44 @8564 has 243 MA's), (51, 8597), (79, 8783), (91, 8843), (92, 8855), (113, 8963), (133, 9056), (136, 9065), (137, 9071), (144, 9104), (149, 9134), (159, 9179), (174, 9269),

Gene: Yummy_14 Start: 7821, Stop: 8666, Start Num: 44

Candidate Starts for Yummy_14:

(Start: 44 @7821 has 243 MA's), (51, 7854), (79, 8040), (92, 8112), (133, 8313), (137, 8328), (144, 8361), (154, 8406), (181, 8592), (182, 8598),

Gene: Yuna_18 Start: 9613, Stop: 10227, Start Num: 39

Candidate Starts for Yuna_18:

(Start: 39 @9613 has 133 MA's), (49, 9658), (78, 9835), (86, 9892), (92, 9922), (95, 9952), (102, 9991), (103, 9997), (111, 10036), (114, 10048), (127, 10114), (139, 10159), (143, 10189), (147, 10210),

Gene: Yunkel11_18 Start: 9455, Stop: 10069, Start Num: 39

Candidate Starts for Yunkel11_18:

(Start: 39 @9455 has 133 MA's), (75, 9638), (78, 9677), (86, 9734), (92, 9764), (95, 9794), (102, 9833), (103, 9839), (111, 9878), (114, 9890), (129, 9962), (139, 10001), (143, 10031), (147, 10052),

Gene: Zabiza_18 Start: 10502, Stop: 11116, Start Num: 36

Candidate Starts for Zabiza_18:

(Start: 36 @10502 has 102 MA's), (49, 10547), (74, 10670), (78, 10724), (86, 10781), (90, 10796), (102, 10880), (103, 10886), (111, 10925), (114, 10937), (120, 10964), (129, 11009), (132, 11024), (139, 11048), (150, 11105),

Gene: Zareef_17 Start: 8879, Stop: 9718, Start Num: 44

Candidate Starts for Zareef_17:

(Start: 44 @8879 has 243 MA's), (51, 8912), (88, 9140), (103, 9221), (113, 9269), (125, 9326), (127, 9338), (133, 9362), (137, 9377), (157, 9470), (162, 9503), (165, 9515), (166, 9518), (183, 9653), (188, 9701),

Gene: Zavala_18 Start: 10483, Stop: 11097, Start Num: 36

Candidate Starts for Zavala_18:

(Start: 36 @10483 has 102 MA's), (49, 10528), (74, 10651), (78, 10705), (86, 10762), (90, 10777), (102, 10861), (103, 10867), (111, 10906), (114, 10918), (120, 10945), (129, 10990), (132, 11005), (139, 11029), (150, 11086),

Gene: Zhuangyuan_15 Start: 9137, Stop: 9718, Start Num: 44

Candidate Starts for Zhuangyuan_15:

(Start: 44 @9137 has 243 MA's), (49, 9158), (95, 9446), (111, 9530), (120, 9569), (126, 9605), (133, 9632), (148, 9704),

Gene: ZoMa_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for ZoMa_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: ZoeJ_14 Start: 8484, Stop: 9104, Start Num: 35

Candidate Starts for ZoeJ_14:

(Start: 35 @8484 has 8 MA's), (49, 8538), (75, 8676), (86, 8772), (90, 8787), (92, 8802), (95, 8832), (102, 8871), (103, 8877), (104, 8880), (111, 8916), (114, 8928), (116, 8943), (129, 9000), (132, 9015), (139, 9039), (149, 9090),

Gene: Zombie_13 Start: 9854, Stop: 10468, Start Num: 39

Candidate Starts for Zombie_13:

(Start: 39 @9854 has 133 MA's), (49, 9899), (53, 9923), (70, 10001), (74, 10022), (75, 10037), (86, 10133), (90, 10148), (94, 10172), (95, 10193), (102, 10232), (106, 10256), (108, 10265), (111, 10277), (123, 10334), (129, 10361), (132, 10376), (139, 10400),

Gene: Zorro_15 Start: 10802, Stop: 11710, Start Num: 44

Candidate Starts for Zorro_15:

(Start: 44 @10802 has 243 MA's), (75, 10958), (89, 11063), (98, 11120), (136, 11300), (140, 11315), (161, 11450), (166, 11474), (170, 11504), (179, 11561),