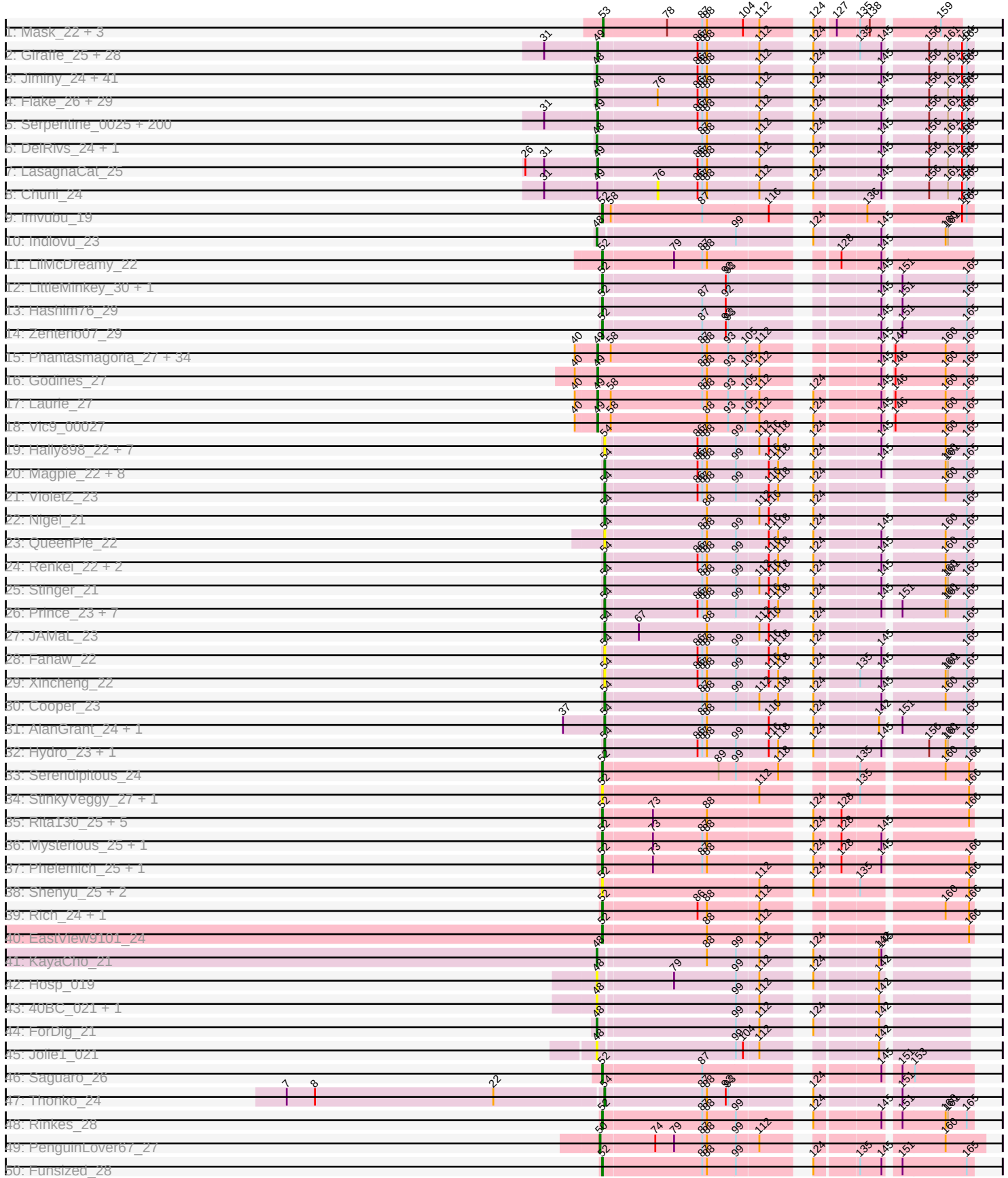
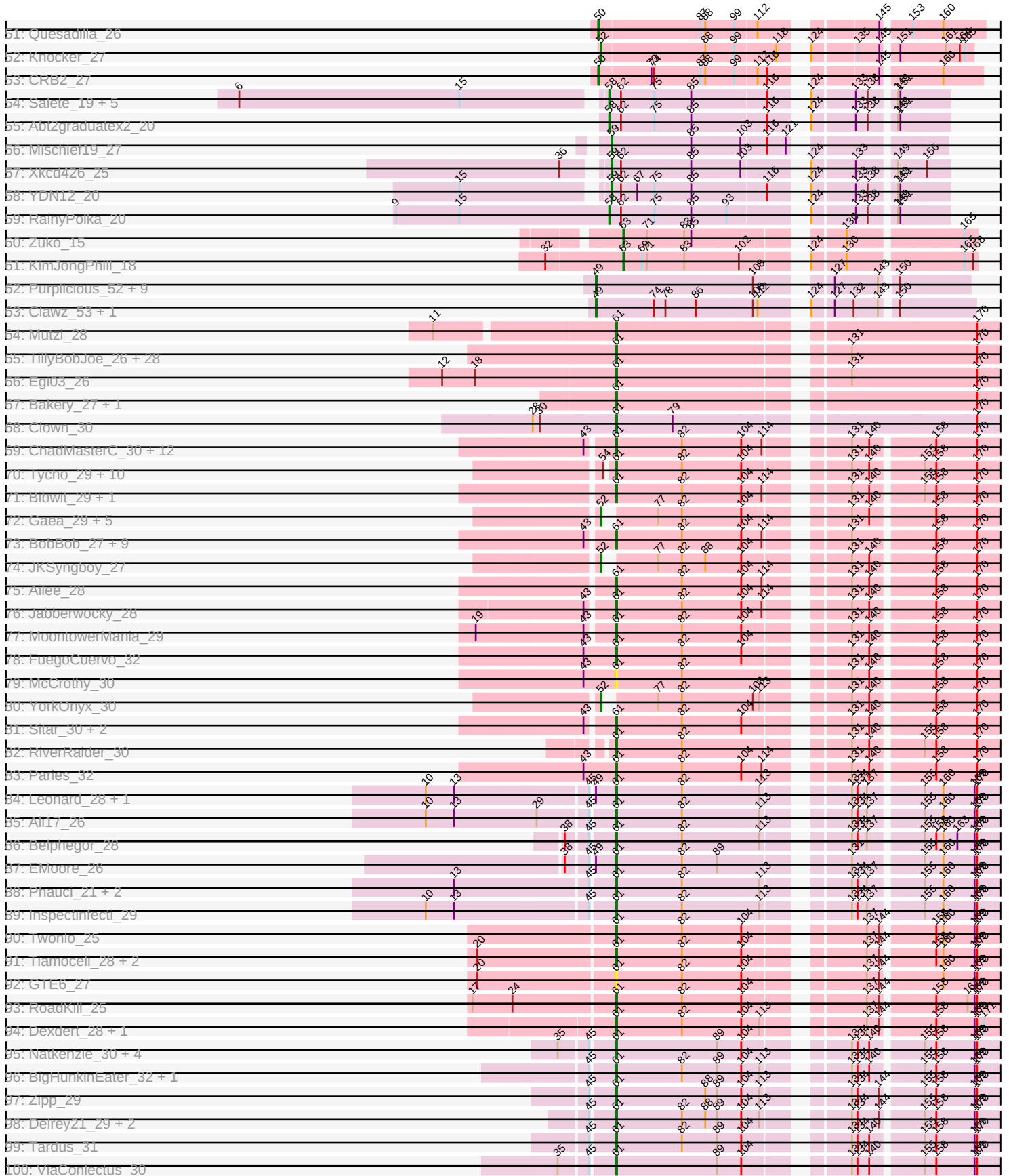
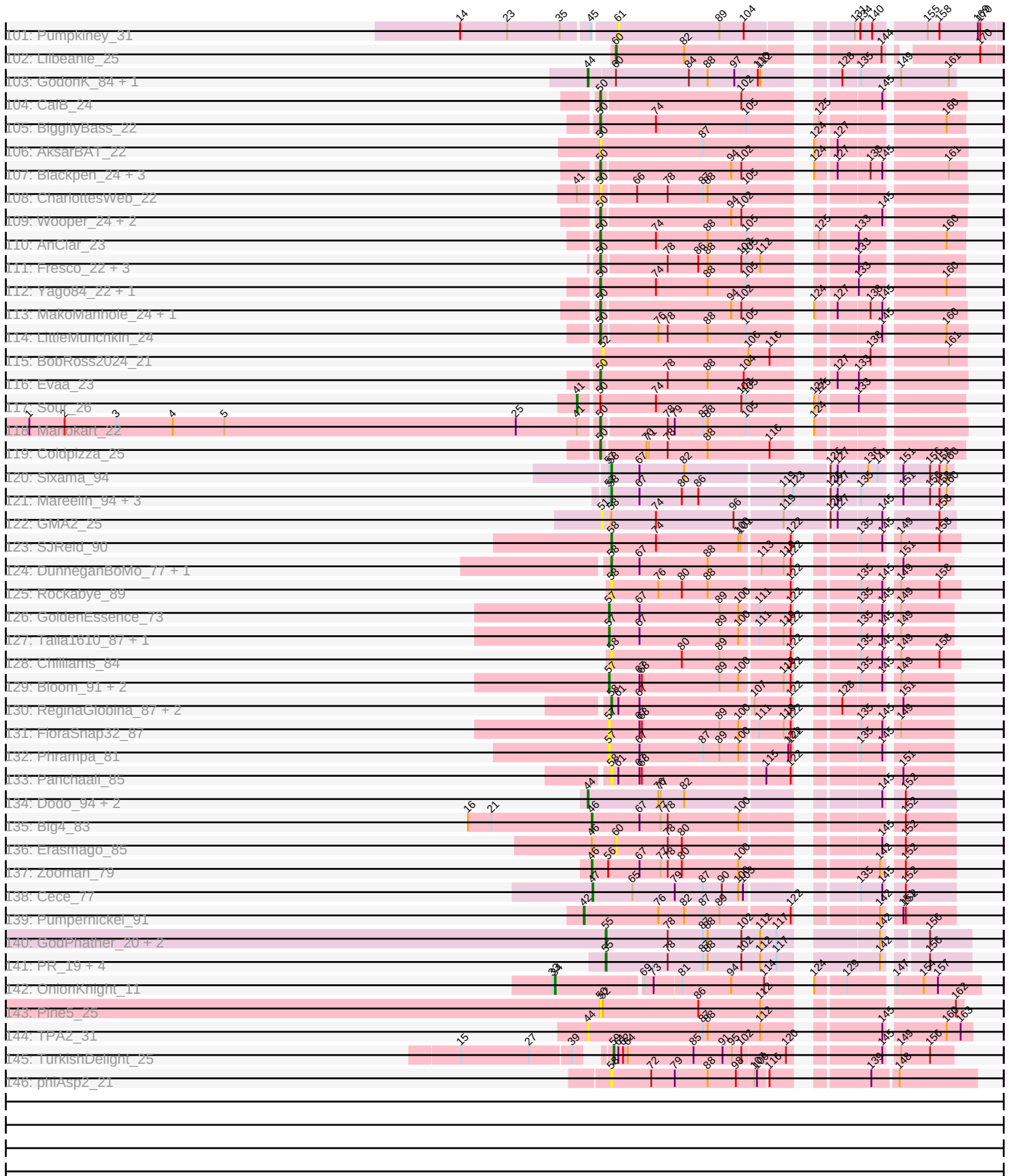




Pham 277696



Pham 277696



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 277696 Report

This analysis was run 02/07/26 on database version 634.

Pham number 277696 has 645 members, 98 are drafts.

Phages represented in each track:

- Track 1 : Mask_22, Dori_22, Mao1_21, Sejanus_22
- Track 2 : Giraffe_25, Hetaeria_25, Oosterbaan_25, Potter_24, Usavi_25, Pipsqueak_25, Mana_24, Scoot17C_25, LostAndPhound_24, HighStump_24, Orion_25, Megatron_25, Grand2040_24, Chorkpop_25, Kikipoo_25, DoesntMatter_25, Kahve_24, LeiMonet_25, Cosmolli16_24, TallGrassMM_25, IsaacEli_25, MRabcd_24, Lasso_25, UAch1_25, Morty_25, FugateOSU_24, Vista_25, Placalicious_24, PG1_25
- Track 3 : Jiminy_24, DuchessDung_23, Aleia_25, Caspiboi_24, TyrionL_24, Oline_24, Maskar_24, Cornbread_24, Zonia_25, Hocus_24, Trypo_25, Plata_25, Swiphy_25, Etaye_25, Doddsville_25, JakeO_24, Schueller_24, JDog_24, Ashraf_24, ImtiyazSitla_24, Durga_25, GeneCoco_25, Dati_25, DaddyDaniels_25, Duggie_24, FleetyMac_24, Longacauda_24, Melc17_25, Wallhey_24, MrPhizzler_25, HogWash_24, Kwksand96_24, Brilliant_25, Derpp_24, Happabalu_25, Struggle_24, Weher20_25, Vaishali24_24, PhatLouie_25, Labeouficaum_24, CharlieGBrown_24, Pinkman_24
- Track 4 : Flake_26, SirBeauregard_24, Larson_26, Phleuron_24, Rimu_25, BatteryCK_24, Phergie_24, Magic8_25, OSmaximus_25, Veritas_24, Coletti_25, Kailash_25, Chute_24, MelsMeow_24, Windsor_24, Keitherie_25, Virgeve_24, Mag7_24, PhrankReynolds_24, Gwennie1_25, ElvisPhasley_25, PhenghisKhan_24, BlacksBerry_24, Iridessa_25, MichaelPhcott_24, Apizium_24, Khan1_25, Hartsy_25, Nathan_25, Chaelin_24
- Track 5 : Serpentine_0025, Haimas_25, Banjo_24, Manad_24, Mikota_25, Nacho_0025, Murdoc_25, Chunky_25, Adriana_25, Nicole21_25, FremontTroll_25, Kimbrough_25, Lumine_24, Maru_24, Burr_24, Selr12_25, Inchworm_25, OliverWalter_25, Valjean_25, KingVeVeVe_25, SilverBell_25, Triad_25, Olive_25, Iridoclysis_25, Gyarad_0025, Zelda_25, EmpTee_25, Mecca_24, Eugenia_25, Mulan_24, Prickles_25, FluffyNinja_25, Pherdinand_25, Thora_25, LuckyMarjie_24, Riverton_24, ShadowBud_25, AngelCake_25, Altwerkus_24, DirtJuice_25, Basato_26, Frankicide_25, Pops_25, Boehler_25, Thunderbird_24, KLucky39_25, Cher_24, CamL_25, Charles1_25, Gwilliam_25, Skippy_25, SDcharge11_25, Antonia_24, Gareth_24, Buckeye_25, Megamind20_25, Newman_25, Kwadwo_24, Squid_25, Daffy_25, RedRaider89_25, Cornobble_24, Freya_24, ABU_25, Numberten_25, Hamish_25, TooFast2Furius_26, Andre_25, ThreeOh3D2_25, BlackStallion_25, Yoshand_25, Mcshane_24, HSavage_25, Schadenfreude_24, Haleema_24, Scrick_25, MitKao_25, Swish_25, Bishoperium_24, Mutante_24, BoogieWoogie_24, Serendipity_25, Sigman_25, Roy17_25, Lulwa_25, CheetO_25, Emiris_25, Spartan300_25, DoIOn_26, Bluephacebaby_24, Dingo_25, Xavier_24,

LeeLot_25, KlimbOn_25, BlueHusk_25, PhrodoBaggins_24, PinheadLarry_25, Beaglebox_24, Jillium_24, Sophia_24, Lopsy_24, Surely_25, Slatt_25, Toni_24, Mosaic_24, ProfessorX_25, Solosis_24, Jesabah_25, Virapocalypse_25, Crownjwl_25, Mesmerelda_24, Roliet_25, Orwigg_24, Harvey_25, Plmatters_25, Telesworld_24, SassyCat97_24, Hertubise_25, CampRoach_25, QueenBeane_25, Cobra_25, Childish_24, Fozzie_24, Omniscient_25, MiniBoss_25, Ricotta_24, Badfish_25, Held_25, JangoPhett_25, Lego3393_25, Horchata_25, Lulumae_24, Matalotodo_25, Nyala_24, Colbert_25, Phareon_25, AbsoluteMadLad_24, Inverness_25, Fang_25, YouGoGlencoco_25, Quisquiliae_25, Waterdiva_25, UncleHowie_25, LemonSlice_25, Chipette_26, DonSanchon_24, Legolas_24, Cannibal_25, Gophee_25, PallasAthena_25, Eremos_25, Morgushi_25, Dice_24, Simielle_24, JacAttac_25, Carthage_23, Riggan_25, Puhltonio_25, Dione_24, Sheila_25, Mesh1_25, Samaymay_25, Timmi_24, True_24, Katniss_25, Daka_25, Squiggle_25, TomBombadil_25, Lehmann_25, AltPhacts_25, Phipps_25, Kloppinator_25, Craff_25, PhatCats2014_25, Zaider_26, Piglet_0024, Roscoe_26, Suffolk_25, HenryJackson_24, Phunky_25, Phamished_25, Fringe_25, Vaticameos_25, Olak_24, SallyH_25, Robyn_24, Orfeu_24, Podrick_25, FriarPreacher_25, Soto_25, Aonishiki_25, ShiVal_25, Tooj_25, RedMaple_24, Pacifista_24, Anderson_25, Aelin_24, Jiraiya_24, Tomlarah_25, Vortex_25, Vivaldi_25

- Track 6 : DelRivs_24, Soile_25
- Track 7 : LasagnaCat_25
- Track 8 : Chuni_24
- Track 9 : Imvubu_19
- Track 10 : Indlovu_23
- Track 11 : LilMcDreamy_22
- Track 12 : LittleMinkey_30, BirdsNest_28
- Track 13 : Hashim76_29
- Track 14 : Zenteno07_29
- Track 15 : Phantasmagoria_27, Allegro_27, Sabella_27, LizLemon_27, Kheth_27, Faze9_27, Brownie5_27, Glass_27, Coffee_27, West99_27, Kaleb_27, TA17A_28, Calamitous_27, Kolhan_27, Opiä_27, LilSmirk_27, Tinciduntolum_28, Tres_27, MasterPo_27, Lars_27, Bananafish_27, Eaglehorse_27, Boyle_27, Arbiter_27, Hedgerow_27, Holeinone_27, PrinceCharming_27, Rosebush_27, Blocker23_27, Ares_27, Qyrzula_25, Lephleur_27, FrenchFry_27, ItsyBitsy1_27, Rhinoforte_27
- Track 16 : Godines_27
- Track 17 : Laurie_27
- Track 18 : Vic9_00027
- Track 19 : Hally898_22, Antihero_22, Ahwei_22, Poster_22, Lambano_22, Epah_22, GinPorsche_22, Nanao_22
- Track 20 : Magpie_22, Hangman_23, Waleliano_23, BrownCNA_24, Mithril_23, JaguarMi_23, JoyceMaria_23, Zemanar_24, Heath_22
- Track 21 : VioletZ_23
- Track 22 : Nigel_21
- Track 23 : QueenPie_22
- Track 24 : Renkei_22, ChrisnMich_22, LittleDigger_22
- Track 25 : Stinger_21
- Track 26 : Prince_23, Mudslide_23, RawrgerThat_23, Frederick_23, Fortunato_23, Apex_23, Austelle_24, BobbyK_23
- Track 27 : JAMaL_23
- Track 28 : Fanaw_22
- Track 29 : Xincheng_22
- Track 30 : Cooper_23

- Track 31 : AlanGrant_24, Vincenzo_24
- Track 32 : Hydro_23, Lolalove_23
- Track 33 : Serendipitous_24
- Track 34 : StinkyVeggy_27, KarasumaRum_27
- Track 35 : Rita130_25, Acadian_25, Donny_25, Suigeneris_25, SirJeffery_25, Reccee_26
- Track 36 : Mysterious_25, Nehemiah_24
- Track 37 : Phelemich_25, Reprobate_25
- Track 38 : Shenyu_25, DigitDog_25, Nangang_25
- Track 39 : Rich_24, Baee_24
- Track 40 : EastView9101_24
- Track 41 : KayaCho_21
- Track 42 : Hosp_019
- Track 43 : 40BC_021, 39HC_021
- Track 44 : ForDig_21
- Track 45 : Jolie1_021
- Track 46 : Saguaro_26
- Track 47 : Thonko_24
- Track 48 : Rinkes_28
- Track 49 : PenguinLover67_27
- Track 50 : Funsized_28
- Track 51 : Quesadilla_26
- Track 52 : Knocker_27
- Track 53 : CRB2_27
- Track 54 : Salete_19, Asis_19, BayC_19, BabyGotBac_19, Maih_19, TP1604_19
- Track 55 : Abt2graduatex2_20
- Track 56 : Mischief19_27
- Track 57 : Xkcd426_25
- Track 58 : YDN12_20
- Track 59 : RainyPolka_20
- Track 60 : Zuko_15
- Track 61 : KimJongPhill_18
- Track 62 : Purplicious_52, Grumio_53, DonTron_53, Sting_52, KingstonB_54, ColdSoup_54, Amo99_54, Stillion_53, Jollymon_53, Soos_49
- Track 63 : Clawz_53, Makar_54
- Track 64 : Mutzi_28
- Track 65 : TillyBobJoe_26, Halo3_27, ClamChowder_28, PinkCoffee_28, Gezellig_26, KimmyK_28, Salvador_26, Twister6_28, Arri_29, VanDeWege_29, Valary_29, Togo_26, Danyall_28, Jambalaya_26, Portcullis_26, RogerDodger_29, Evamon_26, Phlop_26, Savbucketdawg_26, Wizard_26, PullumCavea_26, Fugax_28, CoveyB_28, Nubi_26, Shinji_26, Fireball_27, Barb_28, CherryCola_30, SmokingBunny_26
- Track 66 : Egi03_26
- Track 67 : Bakery_27, YungMoney_28
- Track 68 : Clown_30
- Track 69 : ChadMasterC_30, Shivanishola_31, Kewpiedoll_29, Sanjuju_28, Keitabear_30, Charming_30, Stultus_28, Kamashten_29, Affeca_28, Barsten_30, Angelicage_28, Vivi2_32, Thing3_29
- Track 70 : Tycho_29, Baumdotcom_29, Ashertheman_30, Tangerine_29, Gustavo_29, LilHam_27, SchottB_28, Saronaya_29, StorminNorm_29, Kroos_30, Kwobi_31
- Track 71 : Bibwit_29, Sedona_30
- Track 72 : Gaea_29, Ribeye_30, Derg_25, Bizzy_30, Flatwoods_30, Baddon_29

- Track 73 : BobBob_27, Nordenberg_24, Brandonk123_31, Fosterous_28, McKinley_32, Tangent_30, Rofo_30, Geodirt_27, Love_33, Galadriel_30
- Track 74 : JKSyngboy_27
- Track 75 : Ailee_28
- Track 76 : Jabberwocky_28
- Track 77 : MoontowerMania_29
- Track 78 : FuegoCuervo_32
- Track 79 : McCrothy_30
- Track 80 : YorkOnyx_30
- Track 81 : Sitar_30, Lennon_30, Fitzgerald_28
- Track 82 : RiverRaider_30
- Track 83 : Paries_32
- Track 84 : Leonard_28, Phinally_28
- Track 85 : Ali17_26
- Track 86 : Belphegor_28
- Track 87 : EMOore_26
- Track 88 : Phauci_21, MelBins_29, Hans_30
- Track 89 : Inspectinfecti_29
- Track 90 : Twonlo_25
- Track 91 : Tiamoceli_28, EdmundFerry_26, Chickadee_27
- Track 92 : GTE6_27
- Track 93 : RoadKill_25
- Track 94 : Dextert_28, Kwekel_27
- Track 95 : Natkenzie_30, Sampson_30, Scioto_30, Abblin_30, APunk_31
- Track 96 : BigHunkinEater_32, Zitch_31
- Track 97 : Zipp_29
- Track 98 : Delrey21_29, DoctorFroggo_29, Verity_29
- Track 99 : Tardus_31
- Track 100 : ViaConlectus_30
- Track 101 : Pumpkiney_31
- Track 102 : Lilbeanie_25
- Track 103 : GodonK_84, Phendrix_82
- Track 104 : CaiB_24
- Track 105 : BiggityBass_22
- Track 106 : AksarBAT_22
- Track 107 : Blackpen_24, CloverMinnie_24, MossRose_24, AnarQue_24
- Track 108 : CharlottesWeb_22
- Track 109 : Wooper_24, TraderJ_24, Yeshua_24
- Track 110 : AnClar_23
- Track 111 : Fresco_22, Axumite_22, Shatter_22, Ligma_22
- Track 112 : Yago84_22, Sisko_22
- Track 113 : MakoManhole_24, FelixTres_24
- Track 114 : LittleMunchkin_24
- Track 115 : BobRoss2024_21
- Track 116 : Evaa_23
- Track 117 : Sour_26
- Track 118 : Mariokart_22
- Track 119 : Coldpizza_25
- Track 120 : Sixama_94
- Track 121 : Mareelih_94, BlueNGold_95, Forza_96, Boopy_96
- Track 122 : GMA2_25
- Track 123 : SJReid_90
- Track 124 : DunneganBoMo_77, Ellewin_79

- Track 125 : Rockabye_89
- Track 126 : GoldenEssence_73
- Track 127 : Talia1610_87, Patbob_88
- Track 128 : Chilliamps_84
- Track 129 : Bloom_91, Racecar_88, Mimi_87
- Track 130 : ReginaGlobina_87, Atuin_82, LeoJr_87
- Track 131 : FloraSnap32_87
- Track 132 : Phrampa_81
- Track 133 : Panchaali_85
- Track 134 : Dodo_94, A3Wally_94, PauloDiaboli_94
- Track 135 : Big4_83
- Track 136 : Erasmago_85
- Track 137 : Zooman_79
- Track 138 : Cece_77
- Track 139 : Pumpnickel_91
- Track 140 : GodPhather_20, Argie_20, Jeon_19
- Track 141 : PR_19, Megabear_19, Cepens_19, D12_19, Taptic_19
- Track 142 : OnionKnight_11
- Track 143 : Pine5_25
- Track 144 : TPA2_31
- Track 145 : TurkishDelight_25
- Track 146 : phiAsp2_21

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

The start number called the most often in the published annotations is 49, it was called in 256 of the 547 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABU_25, AbsoluteMadLad_24, Adriana_25, Aelin_24, Allegro_27, AltPhacts_25, Altwerkus_24, Amo99_54, Anderson_25, Andre_25, AngelCake_25, Antonia_24, Aonishiki_25, Arbiter_27, Ares_27, Badfish_25, Bananafish_27, Banjo_24, Basato_26, Beaglebox_24, Bishoperium_24, BlackStallion_25, Blocker23_27, BlueHusk_25, Bluephacebaby_24, Boehler_25, BoogieWoogie_24, Boyle_27, Brownie5_27, Buckeye_25, Burr_24, Calamitous_27, CamL_25, CampRoach_25, Cannibal_25, Carthage_23, Charles1_25, CheetO_25, Cher_24, Childish_24, Chipette_26, Chorkpop_25, Chunky_25, Clawz_53, Cobra_25, Coffee_27, Colbert_25, ColdSoup_54, Cornobble_24, Cosmolli16_24, Craff_25, Crownjwl_25, Daffy_25, Daka_25, Dice_24, Dingo_25, Dione_24, DirtJuice_25, DoesntMatter_25, DoIOn_26, DonSancho_24, DonTron_53, Eaglehorse_27, Emiris_25, EmpTee_25, Eremos_25, Eugenia_25, Fang_25, Faze9_27, FluffyNinja_25, Fozzie_24, Frankicide_25, FremontTroll_25, FrenchFry_27, Freya_24, FriarPreacher_25, Fringe_25, FugateOSU_24, Gareth_24, Giraffe_25, Glass_27, Godines_27, Gophe_25, Grand2040_24, Grumio_53, Gwilliam_25, Gyarad_0025, HSavage_25, Haimas_25, Haleema_24, Hamish_25, Harvey_25, Hedgerow_27, Held_25, HenryJackson_24, Hertubise_25, Hetaeria_25, HighStump_24, Holeinone_27, Horchata_25, Inchworm_25, Inverness_25, Iridoclysis_25, IsaacEli_25, ItsyBitsy1_27, JacAttac_25, JangoPhett_25, Jesabah_25, Jillium_24, Jiraiya_24, Jollymon_53, KLUcky39_25, Kahve_24, Kaleb_27, Katniss_25, Kheth_27, Kikipoo_25, Kimbrough_25, KingVeVeVe_25, KingstonB_54, KlimbOn_25, Kloppinator_25,

Kolhan_27, Kwadwo_24, Lars_27, LasagnaCat_25, Lasso_25, Laurie_27, LeeLot_25, Lego3393_25, Legolas_24, Lehmann_25, LeiMonet_25, LemonSlice_25, Lephleur_27, LilSmirk_27, LizLemon_27, Lopsy_24, LostAndPhound_24, LuckyMarjie_24, Lulumae_24, Lulwa_25, Lumine_24, MRabcd_24, Makar_54, Mana_24, Manad_24, Maru_24, MasterPo_27, Matalotodo_25, Mcshane_24, Mecca_24, Megamind20_25, Megatron_25, Mesh1_25, Mesmerelda_24, Mikota_25, MiniBoss_25, MitKao_25, Morgushi_25, Morty_25, Mosaic_24, Mulan_24, Murdoc_25, Mutante_24, Nacho_0025, Newman_25, Nicole21_25, Numberten_25, Nyala_24, Olak_24, Olive_25, OliverWalter_25, Omniscient_25, Oosterbaan_25, Opia_27, Orfeu_24, Orion_25, Orwigg_24, PG1_25, Pacifista_24, PallasAthena_25, Phamished_25, Phantasmagoria_27, Phareon_25, PhatCats2014_25, Pherdinand_25, Phipps_25, PhrodoBaggins_24, Phunky_25, Piglet_0024, PinheadLarry_25, Pipsqueak_25, Placalicious_24, Plmatters_25, Podrick_25, Pops_25, Potter_24, Prickles_25, PrinceCharming_27, ProfessorX_25, Puhltonio_25, Purplicious_52, QueenBeane_25, Quisquillae_25, Qyrzula_25, RedMaple_24, RedRaider89_25, Rhinoforte_27, Ricotta_24, Riggan_25, Riverton_24, Robyn_24, Roliet_25, Roscoe_26, Rosebush_27, Roy17_25, SDcharge11_25, Sabella_27, SallyH_25, Samaymay_25, SassyCat97_24, Schadenfreude_24, Scoot17C_25, Scrick_25, Selr12_25, Serendipity_25, Serpentine_0025, ShadowBud_25, Sheila_25, ShiVal_25, Sigman_25, SilverBell_25, Simielle_24, Skippy_25, Slatt_25, Solosis_24, Soos_49, Sophia_24, Soto_25, Spartan300_25, Squid_25, Squiggle_25, Stillion_53, Sting_52, Suffolk_25, Surely_25, Swish_25, TA17A_28, TallGrassMM_25, Telesworld_24, Thora_25, ThreeOh3D2_25, Thunderbird_24, Timmi_24, Tinciduntolum_28, TomBombadil_25, Tomlarah_25, Toni_24, TooFast2Furius_26, Tooj_25, Tres_27, Triad_25, True_24, UAch1_25, UncleHowie_25, Usavi_25, Valjean_25, Vaticameos_25, Vic9_00027, Virapocalypse_25, Vista_25, Vivaldi_25, Vortex_25, Waterdiva_25, West99_27, Xavier_24, Yoshand_25, YouGoGlencoco_25, Zaider_26, Zelda_25,

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

- Chuni_24, EMoore_26, Leonard_28, Phinally_28,

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

- 39HC_021, 40BC_021, A3Wally_94, APunk_31, Abblin_30, Abt2graduatex2_20, Acadian_25, Affeca_28, Ahwei_22, Ailee_28, AksarBAT_22, AlanGrant_24, Aleia_25, Ali17_26, AnClar_23, AnarQue_24, Angelicage_28, Antihero_22, Apex_23, Apizium_24, Argie_20, Arri_29, Ashertheman_30, Ashraf_24, Asis_19, Atuin_82, Austelle_24, Axumite_22, BabyGotBac_19, Baddon_29, Baee_24, Bakery_27, Barb_28, Barsten_30, BatteryCK_24, Baumdotcom_29, BayC_19, Belphegor_28, Bibwit_29, Big4_83, BigHunkinEater_32, BiggityBass_22, BirdsNest_28, Bizzy_30, Blackpen_24, BlacksBerry_24, Bloom_91, BlueNGold_95, BobBob_27, BobRoss2024_21, BobbyK_23, Boopy_96, Brandonk123_31, Brilliant_25, BrownCNA_24, CRB2_27, CaiB_24, Caspiroi_24, Cece_77, Cepens_19, ChadMasterC_30, Chaelin_24, CharlieGBrown_24, CharlottesWeb_22, Charming_30, CherryCola_30, Chickadee_27, Chilliams_84, ChrisnMich_22, Chute_24, ClamChowder_28, CloverMinnie_24, Clown_30, Coldpizza_25, Coletti_25, Cooper_23, Cornbread_24, CoveyB_28, D12_19, DaddyDaniels_25, Danyall_28, Dati_25, DelRivs_24, Delrey21_29, Derg_25, Derpp_24, Dexdert_28, DigitDog_25, DoctorFroggo_29, Doddsville_25, Dodo_94, Donny_25, Dori_22, DuchessDung_23, Duggie_24, DunneganBoMo_77, Durga_25, EastView9101_24, EdmundFerry_26, Egi03_26, Ellewin_79, ElvisPhasley_25, Epah_22, Erasmago_85, Etaye_25, Evaa_23, Evamon_26, Fanaw_22, FelixTres_24, Fireball_27, Fitzgerald_28, Flake_26, Flatwoods_30, FleetyMac_24, FloraSnap32_87, ForDig_21, Fortunato_23,

Forza_96, Fosterous_28, Frederick_23, Fresco_22, FuegoCuervo_32, Fugax_28, Funsized_28, GMA2_25, GTE6_27, Gaea_29, Galadriel_30, GeneCoco_25, Geodirt_27, Gezellig_26, GinPorsche_22, GodPhather_20, GodonK_84, GoldenEssence_73, Gustavo_29, Gwennie1_25, Hally898_22, Halo3_27, Hangman_23, Hans_30, Happabalu_25, Hartsy_25, Hashim76_29, Heath_22, Hocus_24, HogWash_24, Hosp_019, Hydro_23, ImtiyazSitla_24, Imvubu_19, Indlovu_23, Inspectinfecti_29, Iridessa_25, JAMaL_23, JDog_24, JKSyngboy_27, Jabberwocky_28, JaguarMi_23, JakeO_24, Jambalaya_26, Jeon_19, Jiminy_24, Jolie1_021, JoyceMaria_23, Kailash_25, Kamashten_29, KarasumaRum_27, KayaCho_21, Keitabear_30, Keitherie_25, Kewpiedoll_29, Khan1_25, KimJongPhill_18, KimmyK_28, Knocker_27, Kroos_30, Kwekel_27, Kwksand96_24, Kwobi_31, Labeouficaum_24, Lambano_22, Larson_26, Lennon_30, LeoJr_87, Ligma_22, LilHam_27, LilMcDreamy_22, Lilbeanie_25, LittleDigger_22, LittleMinkey_30, LittleMunchkin_24, Lolalove_23, Longacauda_24, Love_33, Mag7_24, Magic8_25, Magpie_22, Maih_19, MakoManhole_24, Mao1_21, Mareelih_94, Mariokart_22, Mask_22, Maskar_24, McCrothy_30, McKinley_32, Megabear_19, MelBins_29, Melc17_25, MelsMeow_24, MichaelPhcott_24, Mimi_87, Mischief19_27, Mithril_23, MoontowerMania_29, MossRose_24, MrPhizzler_25, Mudslide_23, Mutzi_28, Mysterious_25, Nanao_22, Nangang_25, Nathan_25, Natkenzie_30, Nehemiah_24, Nigel_21, Nordenberg_24, Nubi_26, OSmaximus_25, Oline_24, OnionKnight_11, PR_19, Panchaali_85, Paries_32, Patbob_88, PauloDiaboli_94, PenguinLover67_27, PhatLouie_25, Phauci_21, Phelemich_25, Phendrix_82, PhenghisKhan_24, Phergie_24, Phleuron_24, Phlop_26, Phrampa_81, PhrankReynolds_24, Pine5_25, PinkCoffee_28, Pinkman_24, Plata_25, Portcullis_26, Poster_22, Prince_23, PullumCavea_26, Pumpernickel_91, Pumpkiney_31, QueenPie_22, Quesadilla_26, Racecar_88, RainyPolka_20, RawrgerThat_23, Reccee_26, ReginaGlobina_87, Renkei_22, Reprobate_25, Ribeye_30, Rich_24, Rimu_25, Rinkes_28, Rita130_25, RiverRaider_30, RoadKill_25, Rockabye_89, Rofo_30, RogerDodger_29, SJReid_90, Saguaro_26, Salete_19, Salvador_26, Sampson_30, Sanjuju_28, Saronaya_29, Savbucketdawg_26, SchottB_28, Schueller_24, Scioto_30, Sedona_30, Sejanus_22, Serendipitous_24, Shatter_22, Shenyu_25, Shinji_26, Shivanishola_31, SirBeauregard_24, SirJeffery_25, Sisko_22, Sitar_30, Sixama_94, SmokingBunny_26, Soile_25, Sour_26, Stinger_21, StinkyVeggy_27, StorminNorm_29, Struggle_24, Stultus_28, Suigeneris_25, Swiphy_25, TP1604_19, TPA2_31, Talia1610_87, Tangent_30, Tangerine_29, Taptic_19, Tardus_31, Thing3_29, Thonko_24, Tiamoceli_28, TillyBobJoe_26, Togo_26, TraderJ_24, Trypo_25, TurkishDelight_25, Twister6_28, Twonlo_25, Tycho_29, TyrionL_24, Vaishali24_24, Valary_29, VanDeWege_29, Veritas_24, Verity_29, ViaConlectus_30, Vincenzo_24, VioletZ_23, Virgeve_24, Vivi2_32, Waleliano_23, Wallhey_24, Weher20_25, Windsor_24, Wizard_26, Wooper_24, Xincheng_22, Xkcd426_25, YDN12_20, Yago84_22, Yeshua_24, YorkOnyx_30, YungMoney_28, Zemanar_24, Zenteno07_29, Zipp_29, Zitch_31, Zonia_25, Zooman_79, Zuko_15, phiAsp2_21,

Summary by start number:

Start 34:

- Found in 1 of 645 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 547
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OnionKnight_11 (singleton),

Start 41:

- Found in 3 of 645 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 547
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Sour_26 (DR),

Start 42:

- Found in 1 of 645 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 547
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpernickel_91 (GD4),

Start 44:

- Found in 6 of 645 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 547
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_94 (GD1), Dodo_94 (GD1), GodonK_84 (DK), PauloDiaboli_94 (GD1), Phendrix_82 (DK), TPA2_31 (singleton),

Start 46:

- Found in 3 of 645 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 547
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Big4_83 (GD2), Zooman_79 (GD2),

Start 47:

- Found in 1 of 645 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 547
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_77 (GD3),

Start 48:

- Found in 81 of 645 (12.6%) of genes in pham
- Manual Annotations of this start: 66 of 547
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_021 (B6), 40BC_021 (B6), Aleia_25 (B1), Apizium_24 (B1), Ashraf_24 (B1), BatteryCK_24 (B1), BlacksBerry_24 (B1), Brilliant_25 (B1), CaspiBoi_24 (B1), Chaelin_24 (B1), CharlieGBrown_24 (B1), Chute_24 (B1), Coletti_25 (B1), Cornbread_24 (B1), DaddyDaniels_25 (B1), Dati_25 (B1), DelRivs_24 (B1), Derpp_24 (B1), Doddsville_25 (B1), DuchessDung_23 (B1), Duggie_24 (B1), Durga_25 (B1), ElvisPhasley_25 (B1), Etaye_25 (B1), Flake_26 (B1), FleetyMac_24 (B1), ForDig_21 (B6), GeneCoco_25 (B1), Gwennie1_25 (B1), Happabalu_25 (B1), Hartsy_25 (B1), Hocus_24 (B1), HogWash_24 (B1), Hosp_019 (B6), ImtiyazSitla_24 (B1), Indlovu_23 (B1), Iridessa_25 (B1), JDog_24 (B1), JakeO_24 (B1), Jiminy_24 (B1), Jolie1_021 (B6), Kailash_25 (B1), KayaCho_21 (B6), Keitherie_25 (B1), Khan1_25 (B1), Kwiksand96_24 (B1), Labeoufcaum_24 (B1), Larson_26 (B1), Longacauda_24 (B1), Mag7_24 (B1), Magic8_25 (B1), Maskar_24 (B1), Melc17_25 (B1), MelsMeow_24 (B1), MichaelPhcott_24 (B1), MrPhizzler_25 (B1), Nathan_25 (B1), OSmaximus_25 (B1), Oline_24 (B1), PhatLouie_25 (B1), PhenghisKhan_24 (B1), Phergie_24 (B1), Phleuron_24 (B1), PhrankReynolds_24 (B1), Pinkman_24 (B1), Plata_25 (B1), Rimu_25 (B1), Schueller_24 (B1), SirBeauregard_24 (B1), Soile_25 (B1), Struggle_24 (B1), Swiphy_25 (B1), Trypo_25 (B1), TyrionL_24 (B1), Vaishali24_24 (B1), Veritas_24 (B1), Virgeve_24 (B1), Wallhey_24 (B1), Weher20_25 (B1), Windsor_24 (B1), Zonia_25 (B1),

Start 49:

- Found in 285 of 645 (44.2%) of genes in pham
- Manual Annotations of this start: 256 of 547
- Called 98.6% of time when present
- Phage (with cluster) where this start called: ABU_25 (B1), AbsoluteMadLad_24 (B1), Adriana_25 (B1), Aelin_24 (B1), Allegro_27 (B2), AltPhacts_25 (B1), Altwerkus_24 (B1), Amo99_54 (CP), Anderson_25 (B1), Andre_25 (B1), AngelCake_25 (B1), Antonia_24 (B1), Aonishiki_25 (B1), Arbiter_27 (B2), Ares_27 (B2), Badfish_25 (B1), Bananafish_27 (B2), Banjo_24 (B1), Basato_26 (B1), Beaglebox_24 (B1), Bishoperium_24 (B1), BlackStallion_25 (B1), Blocker23_27 (B2), BlueHusk_25 (B1), Bluephacebaby_24 (B1), Boehler_25 (B1), BoogieWoogie_24 (B1), Boyle_27 (B2), Brownie5_27 (B2), Buckeye_25 (B1), Burr_24 (B1), Calamitous_27 (B2), CamL_25 (B1), CampRoach_25 (B1), Cannibal_25 (B1), Carthage_23 (B1), Charles1_25 (B1), CheetO_25 (B1), Cher_24 (B1), Childish_24 (B1), Chipette_26 (B1), Chorkpop_25 (B1), Chunky_25 (B1), Clawz_53 (CP), Cobra_25 (B1), Coffee_27 (B2), Colbert_25 (B1), ColdSoup_54 (CP), Cornobble_24 (B1), Cosmolli16_24 (B1), Craff_25 (B1), Crownjwl_25 (B1), Daffy_25 (B1), Daka_25 (B1), Dice_24 (B1), Dingo_25 (B1), Dione_24 (B1), DirtJuice_25 (B1), DoesntMatter_25 (B1), DolOn_26 (B1), DonSanchon_24 (B1), DonTron_53 (CP), Eaglehorse_27 (B2), Emiris_25 (B1), EmpTee_25 (B1), Eremos_25 (B1), Eugenia_25 (B1), Fang_25 (B1), Faze9_27 (B2), FluffyNinja_25 (B1), Fozzie_24 (B1), Frankicide_25 (B1), FremontTroll_25 (B1), FrenchFry_27 (B2), Freya_24 (B1), FriarPreacher_25 (B1), Fringe_25 (B1), FugateOSU_24 (B1), Gareth_24 (B1), Giraffe_25 (B1), Glass_27 (B2), Godines_27 (B2), Gophee_25 (B1), Grand2040_24 (B1), Grumio_53 (CP), Gwilliam_25 (B1), Gyarad_0025 (B1), HSavage_25 (B1), Haimas_25 (B1), Haleema_24 (B1), Hamish_25 (B1), Harvey_25 (B1), Hedgerow_27 (B2), Held_25 (B1), HenryJackson_24 (B1), Hertubise_25 (B1), Hetaeria_25 (B1), HighStump_24 (B1), Holeinone_27 (B2), Horchata_25 (B1), Inchworm_25 (B1), Inverness_25 (B1), Iridoclysis_25 (B1), IsaacEli_25 (B1), ItsyBitsy1_27 (B2), JacAttac_25 (B1), JangoPhett_25 (B1), Jesabah_25 (B1), Jillium_24 (B1), Jiraiya_24 (B1), Jollymon_53 (CP), KLUcky39_25 (B1), Kahve_24 (B1), Kaleb_27 (B2), Katniss_25 (B1), Kheth_27 (B2), Kikipoo_25 (B1), Kimbrough_25 (B1), KingVeVeVe_25 (B1), KingstonB_54 (CP), KlimbOn_25 (B1), Kloppinator_25 (B1), Kolhan_27 (B2), Kwadwo_24 (B1), Lars_27 (B2), LasagnaCat_25 (B1), Lasso_25 (B1), Laurie_27 (B2), LeeLot_25 (B1), Lego3393_25 (B1), Legolas_24 (B1), Lehmann_25 (B1), LeiMonet_25 (B1), LemonSlice_25 (B1), Lephleur_27 (B2), LilSmirk_27 (B2), LizLemon_27 (B2), Lopsy_24 (B1), LostAndPhound_24 (B1), LuckyMarjie_24 (B1), Lulumae_24 (B1), Lulwa_25 (B1), Lumine_24 (B1), MRabcd_24 (B1), Makar_54 (CP), Mana_24 (B1), Manad_24 (B1), Maru_24 (B1), MasterPo_27 (B2), Matalotodo_25 (B1), Mcshane_24 (B1), Mecca_24 (B1), Megamind20_25 (B1), Megatron_25 (B1), Mesh1_25 (B1), Mesmerelda_24 (B1), Mikota_25 (B1), MiniBoss_25 (B1), MitKao_25 (B1), Morgushi_25 (B1), Morty_25 (B1), Mosaic_24 (B1), Mulan_24 (B1), Murdoc_25 (B1), Mutante_24 (B1), Nacho_0025 (B1), Newman_25 (B1), Nicole21_25 (B1), Numberten_25 (B1), Nyala_24 (B1), Olak_24 (B1), Olive_25 (B1), OliverWalter_25 (B1), Omniscient_25 (B1), Oosterbaan_25 (B1), Opia_27 (B2), Orfeu_24 (B1), Orion_25 (B1), Orwigg_24 (B1), PG1_25 (B1), Pacifista_24 (B1), PallasAthena_25 (B1), Phamished_25 (B1), Phantasmagoria_27 (B2), Phareon_25 (B1), PhatCats2014_25 (B1), Pherdinand_25 (B1), Phipps_25 (B1), PhrodoBaggins_24 (B1), Phunky_25 (B1), Piglet_0024 (B1), PinheadLarry_25 (B1), Pipsqueak_25 (B1), Placalicious_24 (B1), Plmatters_25 (B1), Podrick_25 (B1), Pops_25 (B1), Potter_24 (B1), Prickles_25 (B1), PrinceCharming_27 (B2), ProfessorX_25 (B1), Puhltonio_25 (B1), Purplicious_52 (CP), QueenBeane_25 (B1), Quisquilliae_25 (B1), Qyrzula_25

(B2), RedMaple_24 (B1), RedRaider89_25 (B1), Rhinoforte_27 (B2), Ricotta_24 (B1), Riggan_25 (B1), Riverton_24 (B1), Robyn_24 (B1), Roliet_25 (B1), Roscoe_26 (B1), Rosebush_27 (B2), Roy17_25 (B1), SDcharge11_25 (B1), Sabella_27 (B2), SallyH_25 (B1), Samaymay_25 (B1), SassyCat97_24 (B1), Schadenfreude_24 (B1), Scoot17C_25 (B1), Scrick_25 (B1), Selr12_25 (B1), Serendipity_25 (B1), Serpentine_0025 (B1), ShadowBud_25 (B1), Sheila_25 (B1), ShiVal_25 (B1), Sigman_25 (B1), SilverBell_25 (B1), Simielle_24 (B1), Skippy_25 (B1), Slatt_25 (B1), Solosis_24 (B1), Soos_49 (CP), Sophia_24 (B1), Soto_25 (B1), Spartan300_25 (B1), Squid_25 (B1), Squiggle_25 (B1), Stillion_53 (CP), Sting_52 (CP), Suffolk_25 (B1), Surely_25 (B1), Swish_25 (B1), TA17A_28 (B2), TallGrassMM_25 (B1), Telesworld_24 (B1), Thora_25 (B1), ThreeOh3D2_25 (B1), Thunderbird_24 (B1), Timmi_24 (B1), Tinciduntolum_28 (B2), TomBombadil_25 (B1), Tomlarah_25 (B1), Toni_24 (B1), TooFast2Furious_26 (B1), Tooj_25 (B1), Tres_27 (B2), Triad_25 (B1), True_24 (B1), UAch1_25 (B1), UncleHowie_25 (B1), Usavi_25 (B1), Valjean_25 (B1), Vaticameos_25 (B1), Vic9_00027 (B2), Virapocalypse_25 (B1), Vista_25 (B1), Vivaldi_25 (B1), Vortex_25 (B1), Waterdiva_25 (B1), West99_27 (B2), Xavier_24 (B1), Yoshand_25 (B1), YouGoGlencoco_25 (B1), Zaider_26 (B1), Zelda_25 (B1),

Start 50:

- Found in 29 of 645 (4.5%) of genes in pham
- Manual Annotations of this start: 22 of 547
- Called 96.6% of time when present
- Phage (with cluster) where this start called: AksarBAT_22 (DR), AnClar_23 (DR), AnarQue_24 (DR), Axumite_22 (DR), BiggityBass_22 (DR), Blackpen_24 (DR), CRB2_27 (B9), CaiB_24 (DR), CharlottesWeb_22 (DR), CloverMinnie_24 (DR), Coldpizza_25 (DR), Eva_23 (DR), FelixTres_24 (DR), Fresco_22 (DR), Ligma_22 (DR), LittleMunchkin_24 (DR), MakoManhole_24 (DR), Mariokart_22 (DR), MossRose_24 (DR), PenguinLover67_27 (B9), Pine5_25 (singleton), Quesadilla_26 (B9), Shatter_22 (DR), Sisko_22 (DR), TraderJ_24 (DR), Wooper_24 (DR), Yago84_22 (DR), Yeshua_24 (DR),

Start 51:

- Found in 1 of 645 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA2_25 (DS),

Start 52:

- Found in 39 of 645 (6.0%) of genes in pham
- Manual Annotations of this start: 27 of 547
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Acadian_25 (B5), Baddon_29 (DE1), Bae_24 (B5), BirdsNest_28 (B13), Bizzy_30 (DE1), BobRoss2024_21 (DR), Derg_25 (DE1), DigitDog_25 (B5), Donny_25 (B5), EastView9101_24 (B5), Flatwoods_30 (DE1), Funsized_28 (B9), Gaea_29 (DE1), Hashim76_29 (B13), Imvubu_19 (B10), JKSyngboy_27 (DE1), KarasumaRum_27 (B5), Knocker_27 (B9), LilMcDreamy_22 (B12), LittleMinkey_30 (B13), Mysterious_25 (B5), Nangang_25 (B5), Nehemiah_24 (B5), Phelemich_25 (B5), Reccee_26 (B5), Reprobate_25 (B5), Ribeye_30 (DE1), Rich_24 (B5), Rinkes_28 (B9), Rita130_25 (B5), Saguaro_26 (B7), Serendipitous_24 (B5), Shenyu_25 (B5), SirJeffery_25 (B5), StinkyVeggy_27 (B5), Suigeneris_25 (B5), YorkOnyx_30 (DE1), Zenteno07_29 (B13),

Start 53:

- Found in 4 of 645 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 547
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dori_22 (AD), Mao1_21 (AD), Mask_22 (AD), Sejanus_22 (AD),

Start 54:

- Found in 52 of 645 (8.1%) of genes in pham
- Manual Annotations of this start: 26 of 547
- Called 78.8% of time when present
- Phage (with cluster) where this start called: Ahwei_22 (B4), AlanGrant_24 (B4), Antihero_22 (B4), Apex_23 (B4), Austelle_24 (B4), BobbyK_23 (B4), BrownCNA_24 (B4), ChrisnMich_22 (B4), Cooper_23 (B4), Epah_22 (B4), Fanaw_22 (B4), Fortunato_23 (B4), Frederick_23 (B4), GinPorsche_22 (B4), Hally898_22 (B4), Hangman_23 (B4), Heath_22 (B4), Hydro_23 (B4), JAMaL_23 (B4), JaguarMi_23 (B4), JoyceMaria_23 (B4), Lambano_22 (B4), LittleDigger_22 (B4), Lolalove_23 (B4), Magpie_22 (B4), Mithril_23 (B4), Mudslide_23 (B4), Nanao_22 (B4), Nigel_21 (B4), Poster_22 (B4), Prince_23 (B4), QueenPie_22 (B4), RawrgerThat_23 (B4), Renkei_22 (B4), Stinger_21 (B4), Thonko_24 (B8), Vincenzo_24 (B4), VioletZ_23 (B4), Waleliano_23 (B4), Xincheng_22 (B4), Zemanar_24 (B4),

Start 55:

- Found in 8 of 645 (1.2%) of genes in pham
- Manual Annotations of this start: 8 of 547
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argie_20 (W), Cepens_19 (W), D12_19 (W), GodPhather_20 (W), Jeon_19 (W), Megabear_19 (W), PR_19 (W), Taptic_19 (W),

Start 57:

- Found in 13 of 645 (2.0%) of genes in pham
- Manual Annotations of this start: 4 of 547
- Called 61.5% of time when present
- Phage (with cluster) where this start called: Bloom_91 (FC), FloraSnap32_87 (FC), GoldenEssence_73 (FC), Mimi_87 (FC), Patbob_88 (FC), Phrampa_81 (FC), Racecar_88 (FC), Talia1610_87 (FC),

Start 58:

- Found in 62 of 645 (9.6%) of genes in pham
- Manual Annotations of this start: 16 of 547
- Called 37.1% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_20 (BG), Asis_19 (BG), Atuin_82 (FC), BabyGotBac_19 (BG), BayC_19 (BG), BlueNGold_95 (DS), Boopy_96 (DS), Chilliamps_84 (FC), DunneganBoMo_77 (FC), Ellewin_79 (FC), Forza_96 (DS), LeoJr_87 (FC), Maih_19 (BG), Mareelih_94 (DS), Panchaali_85 (FC), RainyPolka_20 (BG), ReginaGlobina_87 (FC), Rockabye_89 (FC), SJReid_90 (FC), Salete_19 (BG), Sixama_94 (DS), TP1604_19 (BG), phiAsp2_21 (singleton),

Start 59:

- Found in 4 of 645 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 547
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Mischief19_27 (BG), TurkishDelight_25 (singleton), Xkcd426_25 (BG), YDN12_20 (BG),

Start 60:

- Found in 4 of 645 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 547
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Erasmago_85 (GD2), Lilbeanie_25 (DE5),

Start 61:

- Found in 116 of 645 (18.0%) of genes in pham
- Manual Annotations of this start: 101 of 547
- Called 95.7% of time when present
- Phage (with cluster) where this start called: APunk_31 (DE4), Abblin_30 (DE4), Affeca_28 (DE1), Ailee_28 (DE1), Ali17_26 (DE2), Angelicage_28 (DE1), Arri_29 (DC1), Ashertheman_30 (DE1), Bakery_27 (DC1), Barb_28 (DC1), Barsten_30 (DE1), Baumdotcom_29 (DE1), Belphegor_28 (DE2), Bibwit_29 (DE1), BigHunkinEater_32 (DE4), BobBob_27 (DE1), Brandonk123_31 (DE1), ChadMasterC_30 (DE1), Charming_30 (DE1), CherryCola_30 (DC1), Chickadee_27 (DE3), ClamChowder_28 (DC1), Clown_30 (DC2), CoveyB_28 (DC1), Danyall_28 (DC1), Delrey21_29 (DE4), Dextert_28 (DE3), DoctorFroggo_29 (DE4), EMOore_26 (DE2), EdmundFerry_26 (DE3), Egi03_26 (DC1), Evamon_26 (DC1), Fireball_27 (DC1), Fitzgerald_28 (DE1), Fosterous_28 (DE1), FuegoCuervo_32 (DE1), Fugax_28 (DC1), GTE6_27 (DE3), Galadriel_30 (DE1), Geodirt_27 (DE1), Gezellig_26 (DC1), Gustavo_29 (DE1), Halo3_27 (DC1), Hans_30 (DE2), Inspectinfecti_29 (DE2), Jabberwocky_28 (DE1), Jambalaya_26 (DC1), Kamashten_29 (DE1), Keitabear_30 (DE1), Kewpiedoll_29 (DE1), KimmyK_28 (DC1), Kroos_30 (DE1), Kwekel_27 (DE3), Kwobi_31 (DE1), Lennon_30 (DE1), Leonard_28 (DE2), LilHam_27 (DE1), Love_33 (DE1), McCrothy_30 (DE1), McKinley_32 (DE1), MelBins_29 (DE2), MoontowerMania_29 (DE1), Mutzi_28 (DC1), Natkenzie_30 (DE4), Nordenberg_24 (DE1), Nubi_26 (DC1), Paries_32 (DE1), Phauci_21 (DE2), Phinally_28 (DE2), Phlop_26 (DC1), PinkCoffee_28 (DC1), Portcullis_26 (DC1), PullumCavea_26 (DC1), Pumpkiney_31 (DE4), RiverRaider_30 (DE1), RoadKill_25 (DE3), Rofo_30 (DE1), RogerDodger_29 (DC1), Salvador_26 (DC1), Sampson_30 (DE4), Sanjuju_28 (DE1), Saronaya_29 (DE1), Savbucketdawg_26 (DC1), SchottB_28 (DE1), Scioto_30 (DE4), Sedona_30 (DE1), Shinji_26 (DC1), Shivanishola_31 (DE1), Sitar_30 (DE1), SmokingBunny_26 (DC1), StorminNorm_29 (DE1), Stultus_28 (DE1), Tangent_30 (DE1), Tangerine_29 (DE1), Tardus_31 (DE4), Thing3_29 (DE1), Tiamoceli_28 (DE3), TillyBobJoe_26 (DC1), Togo_26 (DC1), Twister6_28 (DC1), Twonlo_25 (DE3), Tycho_29 (DE1), Valary_29 (DC1), VanDeWege_29 (DC1), Verity_29 (DE4), ViaConlectus_30 (DE4), Vivi2_32 (DE1), Wizard_26 (DC1), YungMoney_28 (DC1), Zipp_29 (DE4), Zitch_31 (DE4),

Start 63:

- Found in 2 of 645 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 547
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_18 (BR), Zuko_15 (BR),

Start 76:

- Found in 37 of 645 (5.7%) of genes in pham
- No Manual Annotations of this start.

- Called 2.7% of time when present
- Phage (with cluster) where this start called: Chuni_24 (B1),

Summary by clusters:

There are 33 clusters represented in this pham: GD1, GD2, BG, GD4, B10, singleton, FC, B12, B13, BR, B11, GD3, DR, DS, DK, AD, W, CP, DC2, DC1, DE1, DE2, DE3, DE4, DE5, B4, B5, B6, B7, B1, B2, B8, B9,

Info for manual annotations of cluster AD:

- Start number 53 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster B1:

- Start number 48 was manually annotated 63 times for cluster B1.
- Start number 49 was manually annotated 215 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 52 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 48 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 52 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 52 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 49 was manually annotated 36 times for cluster B2.

Info for manual annotations of cluster B4:

- Start number 54 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 52 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 48 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

- Start number 52 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 54 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 50 was manually annotated 3 times for cluster B9.
- Start number 52 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster BG:

- Start number 58 was manually annotated 8 times for cluster BG.
- Start number 59 was manually annotated 3 times for cluster BG.

Info for manual annotations of cluster BR:

- Start number 63 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CP:

- Start number 49 was manually annotated 5 times for cluster CP.

Info for manual annotations of cluster DC1:

- Start number 61 was manually annotated 31 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 61 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 52 was manually annotated 8 times for cluster DE1.
- Start number 61 was manually annotated 44 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 61 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 61 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 61 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 60 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DK:

- Start number 44 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DR:

- Start number 41 was manually annotated 1 time for cluster DR.
- Start number 50 was manually annotated 19 times for cluster DR.

Info for manual annotations of cluster DS:

- Start number 58 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster FC:

- Start number 57 was manually annotated 4 times for cluster FC.
- Start number 58 was manually annotated 3 times for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 44 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 46 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 47 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 42 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster W:

- Start number 55 was manually annotated 8 times for cluster W.

Gene Information:

Gene: 39HC_021 Start: 17860, Stop: 18273, Start Num: 48

Candidate Starts for 39HC_021:

(Start: 48 @17860 has 66 MA's), (99, 18028), (112, 18055), (142, 18172),

Gene: 40BC_021 Start: 17860, Stop: 18273, Start Num: 48

Candidate Starts for 40BC_021:

(Start: 48 @17860 has 66 MA's), (99, 18028), (112, 18055), (142, 18172),

Gene: A3Wally_94 Start: 50689, Stop: 51099, Start Num: 44

Candidate Starts for A3Wally_94:

(Start: 44 @50689 has 4 MA's), (76, 50776), (77, 50779), (82, 50809), (145, 51019), (152, 51037),

Gene: ABU_25 Start: 18669, Stop: 19091, Start Num: 49

Candidate Starts for ABU_25:

(31, 18603), (Start: 49 @18669 has 256 MA's), (86, 18792), (87, 18798), (88, 18804), (112, 18867), (124, 18909), (145, 18987), (156, 19035), (161, 19059), (164, 19077), (165, 19083),

Gene: APunk_31 Start: 22352, Stop: 22783, Start Num: 61

Candidate Starts for APunk_31:

(35, 22292), (45, 22325), (Start: 61 @22352 has 101 MA's), (89, 22481), (104, 22511), (131, 22613), (134, 22619), (140, 22634), (155, 22691), (158, 22706), (169, 22754), (170, 22757),

Gene: Abblin_30 Start: 22964, Stop: 23395, Start Num: 61

Candidate Starts for Abblin_30:

(35, 22904), (45, 22937), (Start: 61 @22964 has 101 MA's), (89, 23093), (104, 23123), (131, 23225), (134, 23231), (140, 23246), (155, 23303), (158, 23318), (169, 23366), (170, 23369),

Gene: AbsoluteMadLad_24 Start: 18670, Stop: 19092, Start Num: 49

Candidate Starts for AbsoluteMadLad_24:

(31, 18604), (Start: 49 @18670 has 256 MA's), (86, 18793), (87, 18799), (88, 18805), (112, 18868), (124, 18910), (145, 18988), (156, 19036), (161, 19060), (164, 19078), (165, 19084),

Gene: Abt2graduatex2_20 Start: 19744, Stop: 20124, Start Num: 58

Candidate Starts for Abt2graduatex2_20:

(Start: 58 @19744 has 16 MA's), (62, 19759), (75, 19801), (85, 19846), (116, 19936), (124, 19966), (133, 20017), (138, 20032), (149, 20059), (151, 20062),

Gene: Acadian_25 Start: 19389, Stop: 19805, Start Num: 52

Candidate Starts for Acadian_25:

(Start: 52 @19389 has 27 MA's), (73, 19449), (88, 19518), (124, 19623), (128, 19653), (166, 19800),

Gene: Adriana_25 Start: 18672, Stop: 19094, Start Num: 49

Candidate Starts for Adriana_25:

(31, 18606), (Start: 49 @18672 has 256 MA's), (86, 18795), (87, 18801), (88, 18807), (112, 18870), (124, 18912), (145, 18990), (156, 19038), (161, 19062), (164, 19080), (165, 19086),

Gene: Aelin_24 Start: 18235, Stop: 18657, Start Num: 49

Candidate Starts for Aelin_24:

(31, 18169), (Start: 49 @18235 has 256 MA's), (86, 18358), (87, 18364), (88, 18370), (112, 18433), (124, 18475), (145, 18553), (156, 18601), (161, 18625), (164, 18643), (165, 18649),

Gene: Affeca_28 Start: 22852, Stop: 23286, Start Num: 61

Candidate Starts for Affeca_28:

(43, 22822), (Start: 61 @22852 has 101 MA's), (82, 22936), (104, 23011), (114, 23035), (131, 23113), (140, 23134), (158, 23206), (170, 23257),

Gene: Ahwei_22 Start: 18304, Stop: 18717, Start Num: 54

Candidate Starts for Ahwei_22:

(Start: 54 @18304 has 26 MA's), (86, 18418), (87, 18424), (88, 18430), (99, 18466), (112, 18493), (116, 18505), (118, 18517), (124, 18535), (145, 18613), (160, 18682), (165, 18709),

Gene: Ailee_28 Start: 23561, Stop: 23995, Start Num: 61

Candidate Starts for Ailee_28:

(Start: 61 @23561 has 101 MA's), (82, 23645), (104, 23720), (114, 23744), (131, 23822), (140, 23843), (158, 23915), (170, 23966),

Gene: AksarBAT_22 Start: 17149, Stop: 17565, Start Num: 50

Candidate Starts for AksarBAT_22:

(Start: 50 @17149 has 22 MA's), (87, 17278), (124, 17392), (127, 17416),

Gene: AlanGrant_24 Start: 20089, Stop: 20502, Start Num: 54

Candidate Starts for AlanGrant_24:

(37, 20038), (Start: 54 @20089 has 26 MA's), (87, 20209), (88, 20215), (116, 20290), (124, 20320), (142, 20395), (151, 20413), (165, 20494),

Gene: Aleia_25 Start: 18248, Stop: 18670, Start Num: 48

Candidate Starts for Aleia_25:

(Start: 48 @18248 has 66 MA's), (86, 18371), (87, 18377), (88, 18383), (112, 18446), (124, 18488), (145, 18566), (156, 18614), (161, 18638), (164, 18656), (165, 18662),

Gene: Ali17_26 Start: 20746, Stop: 21177, Start Num: 61

Candidate Starts for Ali17_26:

(10, 20518), (13, 20554), (29, 20659), (45, 20719), (Start: 61 @20746 has 101 MA's), (82, 20830), (113, 20926), (131, 21007), (134, 21013), (137, 21025), (155, 21085), (160, 21109), (169, 21148), (170, 21151),

Gene: Allegro_27 Start: 20836, Stop: 21264, Start Num: 49

Candidate Starts for Allegro_27:

(40, 20809), (Start: 49 @20836 has 256 MA's), (Start: 58 @20851 has 16 MA's), (87, 20968), (88, 20974), (93, 21001), (105, 21022), (112, 21040), (145, 21160), (146, 21166), (160, 21229), (165, 21256),

Gene: AltPhacts_25 Start: 18664, Stop: 19086, Start Num: 49

Candidate Starts for AltPhacts_25:

(31, 18598), (Start: 49 @18664 has 256 MA's), (86, 18787), (87, 18793), (88, 18799), (112, 18862), (124, 18904), (145, 18982), (156, 19030), (161, 19054), (164, 19072), (165, 19078),

Gene: Altwerkus_24 Start: 18364, Stop: 18786, Start Num: 49

Candidate Starts for Altwerkus_24:

(31, 18298), (Start: 49 @18364 has 256 MA's), (86, 18487), (87, 18493), (88, 18499), (112, 18562), (124, 18604), (145, 18682), (156, 18730), (161, 18754), (164, 18772), (165, 18778),

Gene: Amo99_54 Start: 29535, Stop: 29960, Start Num: 49

Candidate Starts for Amo99_54:

(Start: 49 @29535 has 256 MA's), (108, 29733), (127, 29805), (143, 29859), (150, 29874),

Gene: AnClar_23 Start: 19435, Stop: 19848, Start Num: 50

Candidate Starts for AnClar_23:

(Start: 50 @19435 has 22 MA's), (74, 19504), (88, 19570), (105, 19618), (125, 19684), (133, 19726), (160, 19825),

Gene: AnarQue_24 Start: 18618, Stop: 19028, Start Num: 50

Candidate Starts for AnarQue_24:

(Start: 50 @18618 has 22 MA's), (94, 18780), (102, 18792), (124, 18858), (127, 18882), (138, 18921), (145, 18936), (161, 19008),

Gene: Anderson_25 Start: 18662, Stop: 19084, Start Num: 49

Candidate Starts for Anderson_25:

(31, 18596), (Start: 49 @18662 has 256 MA's), (86, 18785), (87, 18791), (88, 18797), (112, 18860), (124, 18902), (145, 18980), (156, 19028), (161, 19052), (164, 19070), (165, 19076),

Gene: Andre_25 Start: 18660, Stop: 19082, Start Num: 49

Candidate Starts for Andre_25:

(31, 18594), (Start: 49 @18660 has 256 MA's), (86, 18783), (87, 18789), (88, 18795), (112, 18858), (124, 18900), (145, 18978), (156, 19026), (161, 19050), (164, 19068), (165, 19074),

Gene: AngelCake_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for AngelCake_25:

(31, 18609), (Start: 49 @18675 has 256 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: Angelicage_28 Start: 23269, Stop: 23703, Start Num: 61

Candidate Starts for Angelicage_28:

(43, 23239), (Start: 61 @23269 has 101 MA's), (82, 23353), (104, 23428), (114, 23452), (131, 23530), (140, 23551), (158, 23623), (170, 23674),

Gene: Antihero_22 Start: 18304, Stop: 18717, Start Num: 54

Candidate Starts for Antihero_22:

(Start: 54 @18304 has 26 MA's), (86, 18418), (87, 18424), (88, 18430), (99, 18466), (112, 18493), (116, 18505), (118, 18517), (124, 18535), (145, 18613), (160, 18682), (165, 18709),

Gene: Antonia_24 Start: 18235, Stop: 18657, Start Num: 49

Candidate Starts for Antonia_24:

(31, 18169), (Start: 49 @18235 has 256 MA's), (86, 18358), (87, 18364), (88, 18370), (112, 18433), (124, 18475), (145, 18553), (156, 18601), (161, 18625), (164, 18643), (165, 18649),

Gene: Aonishiki_25 Start: 18690, Stop: 19112, Start Num: 49

Candidate Starts for Aonishiki_25:

(31, 18624), (Start: 49 @18690 has 256 MA's), (86, 18813), (87, 18819), (88, 18825), (112, 18888), (124, 18930), (145, 19008), (156, 19056), (161, 19080), (164, 19098), (165, 19104),

Gene: Apex_23 Start: 19517, Stop: 19930, Start Num: 54

Candidate Starts for Apex_23:

(Start: 54 @19517 has 26 MA's), (86, 19631), (87, 19637), (88, 19643), (99, 19679), (116, 19718), (118, 19730), (124, 19748), (145, 19826), (151, 19841), (160, 19895), (161, 19898), (165, 19922),

Gene: Apizium_24 Start: 18422, Stop: 18844, Start Num: 48

Candidate Starts for Apizium_24:

(Start: 48 @18422 has 66 MA's), (76, 18494), (86, 18545), (87, 18551), (88, 18557), (112, 18620), (124, 18662), (145, 18740), (156, 18788), (161, 18812), (164, 18830), (165, 18836),

Gene: Arbiter_27 Start: 20921, Stop: 21349, Start Num: 49

Candidate Starts for Arbiter_27:

(40, 20894), (Start: 49 @20921 has 256 MA's), (Start: 58 @20936 has 16 MA's), (87, 21053), (88, 21059), (93, 21086), (105, 21107), (112, 21125), (145, 21245), (146, 21251), (160, 21314), (165, 21341),

Gene: Ares_27 Start: 20837, Stop: 21265, Start Num: 49

Candidate Starts for Ares_27:

(40, 20810), (Start: 49 @20837 has 256 MA's), (Start: 58 @20852 has 16 MA's), (87, 20969), (88, 20975), (93, 21002), (105, 21023), (112, 21041), (145, 21161), (146, 21167), (160, 21230), (165, 21257),

Gene: Argie_20 Start: 18470, Stop: 18880, Start Num: 55

Candidate Starts for Argie_20:

(Start: 55 @18470 has 8 MA's), (78, 18545), (87, 18590), (88, 18596), (102, 18638), (112, 18662), (117, 18683), (142, 18785), (156, 18830),

Gene: Arri_29 Start: 18253, Stop: 18696, Start Num: 61

Candidate Starts for Arri_29:

(Start: 61 @18253 has 101 MA's), (131, 18514), (170, 18670),

Gene: Ashertheman_30 Start: 22146, Stop: 22580, Start Num: 61

Candidate Starts for Ashertheman_30:

(Start: 54 @22137 has 26 MA's), (Start: 61 @22146 has 101 MA's), (82, 22230), (104, 22305), (131, 22407), (140, 22428), (155, 22485), (158, 22500), (170, 22551),

Gene: Ashraf_24 Start: 18226, Stop: 18648, Start Num: 48

Candidate Starts for Ashraf_24:

(Start: 48 @18226 has 66 MA's), (86, 18349), (87, 18355), (88, 18361), (112, 18424), (124, 18466), (145, 18544), (156, 18592), (161, 18616), (164, 18634), (165, 18640),

Gene: Asis_19 Start: 19235, Stop: 19615, Start Num: 58

Candidate Starts for Asis_19:

(6, 18785), (15, 19067), (Start: 58 @19235 has 16 MA's), (62, 19250), (75, 19292), (85, 19337), (116, 19427), (124, 19457), (133, 19508), (138, 19523), (149, 19550), (151, 19553),

Gene: Atuin_82 Start: 52030, Stop: 52410, Start Num: 58

Candidate Starts for Atuin_82:

(Start: 58 @52030 has 16 MA's), (Start: 61 @52039 has 101 MA's), (67, 52066), (107, 52207), (122, 52252), (128, 52285), (151, 52348),

Gene: Austelle_24 Start: 19973, Stop: 20386, Start Num: 54

Candidate Starts for Austelle_24:

(Start: 54 @19973 has 26 MA's), (86, 20087), (87, 20093), (88, 20099), (99, 20135), (116, 20174), (118, 20186), (124, 20204), (145, 20282), (151, 20297), (160, 20351), (161, 20354), (165, 20378),

Gene: Axumite_22 Start: 17225, Stop: 17635, Start Num: 50

Candidate Starts for Axumite_22:

(Start: 50 @17225 has 22 MA's), (78, 17306), (86, 17345), (88, 17357), (102, 17399), (105, 17405), (112, 17423), (133, 17513),

Gene: BabyGotBac_19 Start: 19235, Stop: 19615, Start Num: 58

Candidate Starts for BabyGotBac_19:

(6, 18785), (15, 19067), (Start: 58 @19235 has 16 MA's), (62, 19250), (75, 19292), (85, 19337), (116, 19427), (124, 19457), (133, 19508), (138, 19523), (149, 19550), (151, 19553),

Gene: Baddon_29 Start: 22946, Stop: 23380, Start Num: 52

Candidate Starts for Baddon_29:

(Start: 52 @22946 has 27 MA's), (77, 23000), (82, 23030), (104, 23105), (131, 23207), (140, 23228), (158, 23300), (170, 23351),

Gene: Badfish_25 Start: 18694, Stop: 19116, Start Num: 49

Candidate Starts for Badfish_25:

(31, 18628), (Start: 49 @18694 has 256 MA's), (86, 18817), (87, 18823), (88, 18829), (112, 18892), (124, 18934), (145, 19012), (156, 19060), (161, 19084), (164, 19102), (165, 19108),

Gene: Baee_24 Start: 19145, Stop: 19561, Start Num: 52

Candidate Starts for Baee_24:

(Start: 52 @19145 has 27 MA's), (86, 19262), (88, 19274), (112, 19337), (160, 19526), (166, 19556),

Gene: Bakery_27 Start: 17507, Stop: 17950, Start Num: 61

Candidate Starts for Bakery_27:

(Start: 61 @17507 has 101 MA's), (170, 17924),

Gene: Bananafish_27 Start: 20833, Stop: 21261, Start Num: 49

Candidate Starts for Bananafish_27:

(40, 20806), (Start: 49 @20833 has 256 MA's), (Start: 58 @20848 has 16 MA's), (87, 20965), (88, 20971), (93, 20998), (105, 21019), (112, 21037), (145, 21157), (146, 21163), (160, 21226), (165, 21253),

Gene: Banjo_24 Start: 18371, Stop: 18793, Start Num: 49

Candidate Starts for Banjo_24:

(31, 18305), (Start: 49 @18371 has 256 MA's), (86, 18494), (87, 18500), (88, 18506), (112, 18569), (124, 18611), (145, 18689), (156, 18737), (161, 18761), (164, 18779), (165, 18785),

Gene: Barb_28 Start: 18286, Stop: 18729, Start Num: 61

Candidate Starts for Barb_28:

(Start: 61 @18286 has 101 MA's), (131, 18547), (170, 18703),

Gene: Barsten_30 Start: 22693, Stop: 23127, Start Num: 61

Candidate Starts for Barsten_30:

(43, 22663), (Start: 61 @22693 has 101 MA's), (82, 22777), (104, 22852), (114, 22876), (131, 22954), (140, 22975), (158, 23047), (170, 23098),

Gene: Basato_26 Start: 18896, Stop: 19318, Start Num: 49

Candidate Starts for Basato_26:

(31, 18830), (Start: 49 @18896 has 256 MA's), (86, 19019), (87, 19025), (88, 19031), (112, 19094), (124, 19136), (145, 19214), (156, 19262), (161, 19286), (164, 19304), (165, 19310),

Gene: BatteryCK_24 Start: 18248, Stop: 18670, Start Num: 48

Candidate Starts for BatteryCK_24:

(Start: 48 @18248 has 66 MA's), (76, 18320), (86, 18371), (87, 18377), (88, 18383), (112, 18446), (124, 18488), (145, 18566), (156, 18614), (161, 18638), (164, 18656), (165, 18662),

Gene: Baumdotcom_29 Start: 21761, Stop: 22195, Start Num: 61

Candidate Starts for Baumdotcom_29:

(Start: 54 @21752 has 26 MA's), (Start: 61 @21761 has 101 MA's), (82, 21845), (104, 21920), (131, 22022), (140, 22043), (155, 22100), (158, 22115), (170, 22166),

Gene: BayC_19 Start: 19235, Stop: 19615, Start Num: 58

Candidate Starts for BayC_19:

(6, 18785), (15, 19067), (Start: 58 @19235 has 16 MA's), (62, 19250), (75, 19292), (85, 19337), (116, 19427), (124, 19457), (133, 19508), (138, 19523), (149, 19550), (151, 19553),

Gene: Beaglebox_24 Start: 18391, Stop: 18813, Start Num: 49

Candidate Starts for Beaglebox_24:

(31, 18325), (Start: 49 @18391 has 256 MA's), (86, 18514), (87, 18520), (88, 18526), (112, 18589), (124, 18631), (145, 18709), (156, 18757), (161, 18781), (164, 18799), (165, 18805),

Gene: Belphegor_28 Start: 22298, Stop: 22729, Start Num: 61

Candidate Starts for Belphegor_28:

(38, 22247), (45, 22271), (Start: 61 @22298 has 101 MA's), (82, 22382), (113, 22478), (131, 22559), (134, 22565), (137, 22577), (155, 22637), (158, 22652), (160, 22661), (163, 22679), (169, 22700), (170, 22703),

Gene: Bibwit_29 Start: 22880, Stop: 23314, Start Num: 61

Candidate Starts for Bibwit_29:

(Start: 61 @22880 has 101 MA's), (82, 22964), (104, 23039), (114, 23063), (131, 23141), (140, 23162), (155, 23219), (158, 23234), (170, 23285),

Gene: Big4_83 Start: 49711, Stop: 50121, Start Num: 46

Candidate Starts for Big4_83:

(16, 49555), (21, 49585), (Start: 46 @49711 has 2 MA's), (67, 49771), (77, 49798), (78, 49807), (100, 49897), (152, 50059),

Gene: BigHunkinEater_32 Start: 22135, Stop: 22566, Start Num: 61

Candidate Starts for BigHunkinEater_32:

(45, 22108), (Start: 61 @22135 has 101 MA's), (82, 22219), (89, 22264), (104, 22294), (113, 22315), (131, 22396), (134, 22402), (140, 22417), (155, 22474), (158, 22489), (169, 22537), (170, 22540),

Gene: BiggityBass_22 Start: 19520, Stop: 19933, Start Num: 50

Candidate Starts for BiggityBass_22:

(Start: 50 @19520 has 22 MA's), (74, 19589), (105, 19703), (125, 19769), (160, 19910),

Gene: BirdsNest_28 Start: 18737, Stop: 19153, Start Num: 52

Candidate Starts for BirdsNest_28:

(Start: 52 @18737 has 27 MA's), (92, 18890), (93, 18893), (145, 19049), (151, 19064), (165, 19145),

Gene: Bishoperium_24 Start: 18377, Stop: 18799, Start Num: 49

Candidate Starts for Bishoperium_24:

(31, 18311), (Start: 49 @18377 has 256 MA's), (86, 18500), (87, 18506), (88, 18512), (112, 18575), (124, 18617), (145, 18695), (156, 18743), (161, 18767), (164, 18785), (165, 18791),

Gene: Bizzy_30 Start: 22093, Stop: 22527, Start Num: 52

Candidate Starts for Bizzy_30:

(Start: 52 @22093 has 27 MA's), (77, 22147), (82, 22177), (104, 22252), (131, 22354), (140, 22375), (158, 22447), (170, 22498),

Gene: BlackStallion_25 Start: 18682, Stop: 19104, Start Num: 49

Candidate Starts for BlackStallion_25:

(31, 18616), (Start: 49 @18682 has 256 MA's), (86, 18805), (87, 18811), (88, 18817), (112, 18880), (124, 18922), (145, 19000), (156, 19048), (161, 19072), (164, 19090), (165, 19096),

Gene: Blackpen_24 Start: 18036, Stop: 18446, Start Num: 50

Candidate Starts for Blackpen_24:

(Start: 50 @18036 has 22 MA's), (94, 18198), (102, 18210), (124, 18276), (127, 18300), (138, 18339), (145, 18354), (161, 18426),

Gene: BlacksBerry_24 Start: 18386, Stop: 18808, Start Num: 48

Candidate Starts for BlacksBerry_24:

(Start: 48 @18386 has 66 MA's), (76, 18458), (86, 18509), (87, 18515), (88, 18521), (112, 18584), (124, 18626), (145, 18704), (156, 18752), (161, 18776), (164, 18794), (165, 18800),

Gene: Blocker23_27 Start: 20954, Stop: 21382, Start Num: 49

Candidate Starts for Blocker23_27:

(40, 20927), (Start: 49 @20954 has 256 MA's), (Start: 58 @20969 has 16 MA's), (87, 21086), (88, 21092), (93, 21119), (105, 21140), (112, 21158), (145, 21278), (146, 21284), (160, 21347), (165, 21374),

Gene: Bloom_91 Start: 53421, Stop: 53804, Start Num: 57

Candidate Starts for Bloom_91:

(Start: 57 @53421 has 4 MA's), (67, 53460), (68, 53463), (89, 53562), (100, 53586), (119, 53637), (122, 53646), (135, 53700), (145, 53727), (149, 53739),

Gene: BlueHusk_25 Start: 18178, Stop: 18600, Start Num: 49

Candidate Starts for BlueHusk_25:

(31, 18112), (Start: 49 @18178 has 256 MA's), (86, 18301), (87, 18307), (88, 18313), (112, 18376), (124, 18418), (145, 18496), (156, 18544), (161, 18568), (164, 18586), (165, 18592),

Gene: BlueNGold_95 Start: 51971, Stop: 52378, Start Num: 58

Candidate Starts for BlueNGold_95:

(Start: 57 @51968 has 4 MA's), (Start: 58 @51971 has 16 MA's), (67, 52007), (80, 52061), (86, 52082), (119, 52184), (123, 52196), (126, 52238), (127, 52247), (135, 52274), (151, 52316), (156, 52349), (158, 52361), (160, 52370),

Gene: Bluephacebaby_24 Start: 18377, Stop: 18799, Start Num: 49

Candidate Starts for Bluephacebaby_24:

(31, 18311), (Start: 49 @18377 has 256 MA's), (86, 18500), (87, 18506), (88, 18512), (112, 18575), (124, 18617), (145, 18695), (156, 18743), (161, 18767), (164, 18785), (165, 18791),

Gene: BobBob_27 Start: 22158, Stop: 22592, Start Num: 61

Candidate Starts for BobBob_27:

(43, 22128), (Start: 61 @22158 has 101 MA's), (82, 22242), (104, 22317), (114, 22341), (131, 22419), (158, 22512), (170, 22563),

Gene: BobRoss2024_21 Start: 16983, Stop: 17393, Start Num: 52

Candidate Starts for BobRoss2024_21:

(Start: 52 @16983 has 27 MA's), (106, 17166), (116, 17193), (138, 17286), (161, 17373),

Gene: BobbyK_23 Start: 19336, Stop: 19749, Start Num: 54

Candidate Starts for BobbyK_23:

(Start: 54 @19336 has 26 MA's), (86, 19450), (87, 19456), (88, 19462), (99, 19498), (116, 19537), (118, 19549), (124, 19567), (145, 19645), (151, 19660), (160, 19714), (161, 19717), (165, 19741),

Gene: Boehler_25 Start: 18687, Stop: 19109, Start Num: 49

Candidate Starts for Boehler_25:

(31, 18621), (Start: 49 @18687 has 256 MA's), (86, 18810), (87, 18816), (88, 18822), (112, 18885), (124, 18927), (145, 19005), (156, 19053), (161, 19077), (164, 19095), (165, 19101),

Gene: BoogieWoogie_24 Start: 18364, Stop: 18786, Start Num: 49

Candidate Starts for BoogieWoogie_24:

(31, 18298), (Start: 49 @18364 has 256 MA's), (86, 18487), (87, 18493), (88, 18499), (112, 18562), (124, 18604), (145, 18682), (156, 18730), (161, 18754), (164, 18772), (165, 18778),

Gene: Boopy_96 Start: 51983, Stop: 52390, Start Num: 58

Candidate Starts for Boopy_96:

(Start: 57 @51980 has 4 MA's), (Start: 58 @51983 has 16 MA's), (67, 52019), (80, 52073), (86, 52094), (119, 52196), (123, 52208), (126, 52250), (127, 52259), (135, 52286), (151, 52328), (156, 52361), (158, 52373), (160, 52382),

Gene: Boyle_27 Start: 20955, Stop: 21383, Start Num: 49

Candidate Starts for Boyle_27:

(40, 20928), (Start: 49 @20955 has 256 MA's), (Start: 58 @20970 has 16 MA's), (87, 21087), (88, 21093), (93, 21120), (105, 21141), (112, 21159), (145, 21279), (146, 21285), (160, 21348), (165, 21375),

Gene: Brandonk123_31 Start: 23227, Stop: 23661, Start Num: 61

Candidate Starts for Brandonk123_31:

(43, 23197), (Start: 61 @23227 has 101 MA's), (82, 23311), (104, 23386), (114, 23410), (131, 23488), (158, 23581), (170, 23632),

Gene: Brilliant_25 Start: 18382, Stop: 18804, Start Num: 48

Candidate Starts for Brilliant_25:

(Start: 48 @18382 has 66 MA's), (86, 18505), (87, 18511), (88, 18517), (112, 18580), (124, 18622), (145, 18700), (156, 18748), (161, 18772), (164, 18790), (165, 18796),

Gene: BrownCNA_24 Start: 19588, Stop: 20001, Start Num: 54

Candidate Starts for BrownCNA_24:

(Start: 54 @19588 has 26 MA's), (86, 19702), (87, 19708), (88, 19714), (99, 19750), (116, 19789), (118, 19801), (124, 19819), (145, 19897), (160, 19966), (161, 19969), (165, 19993),

Gene: Brownie5_27 Start: 20954, Stop: 21382, Start Num: 49

Candidate Starts for Brownie5_27:

(40, 20927), (Start: 49 @20954 has 256 MA's), (Start: 58 @20969 has 16 MA's), (87, 21086), (88, 21092), (93, 21119), (105, 21140), (112, 21158), (145, 21278), (146, 21284), (160, 21347), (165, 21374),

Gene: Buckeye_25 Start: 18701, Stop: 19123, Start Num: 49

Candidate Starts for Buckeye_25:

(31, 18635), (Start: 49 @18701 has 256 MA's), (86, 18824), (87, 18830), (88, 18836), (112, 18899), (124, 18941), (145, 19019), (156, 19067), (161, 19091), (164, 19109), (165, 19115),

Gene: Burr_24 Start: 18376, Stop: 18798, Start Num: 49

Candidate Starts for Burr_24:

(31, 18310), (Start: 49 @18376 has 256 MA's), (86, 18499), (87, 18505), (88, 18511), (112, 18574), (124, 18616), (145, 18694), (156, 18742), (161, 18766), (164, 18784), (165, 18790),

Gene: CRB2_27 Start: 21048, Stop: 21482, Start Num: 50

Candidate Starts for CRB2_27:

(Start: 50 @21048 has 22 MA's), (73, 21111), (74, 21114), (87, 21174), (88, 21180), (99, 21216), (112, 21243), (116, 21255), (145, 21363), (160, 21432),

Gene: CaiB_24 Start: 18604, Stop: 19014, Start Num: 50

Candidate Starts for CaiB_24:

(Start: 50 @18604 has 22 MA's), (102, 18778), (145, 18922),

Gene: Calamitous_27 Start: 20834, Stop: 21262, Start Num: 49

Candidate Starts for Calamitous_27:

(40, 20807), (Start: 49 @20834 has 256 MA's), (Start: 58 @20849 has 16 MA's), (87, 20966), (88, 20972), (93, 20999), (105, 21020), (112, 21038), (145, 21158), (146, 21164), (160, 21227), (165, 21254),

Gene: CamL_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for CamL_25:

(31, 18609), (Start: 49 @18675 has 256 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: CampRoach_25 Start: 18668, Stop: 19090, Start Num: 49

Candidate Starts for CampRoach_25:

(31, 18602), (Start: 49 @18668 has 256 MA's), (86, 18791), (87, 18797), (88, 18803), (112, 18866), (124, 18908), (145, 18986), (156, 19034), (161, 19058), (164, 19076), (165, 19082),

Gene: Cannibal_25 Start: 18661, Stop: 19083, Start Num: 49

Candidate Starts for Cannibal_25:

(31, 18595), (Start: 49 @18661 has 256 MA's), (86, 18784), (87, 18790), (88, 18796), (112, 18859), (124, 18901), (145, 18979), (156, 19027), (161, 19051), (164, 19069), (165, 19075),

Gene: Carthage_23 Start: 17587, Stop: 18009, Start Num: 49

Candidate Starts for Carthage_23:

(31, 17521), (Start: 49 @17587 has 256 MA's), (86, 17710), (87, 17716), (88, 17722), (112, 17785), (124, 17827), (145, 17905), (156, 17953), (161, 17977), (164, 17995), (165, 18001),

Gene: Caspiboi_24 Start: 18381, Stop: 18803, Start Num: 48

Candidate Starts for Caspiboi_24:

(Start: 48 @18381 has 66 MA's), (86, 18504), (87, 18510), (88, 18516), (112, 18579), (124, 18621), (145, 18699), (156, 18747), (161, 18771), (164, 18789), (165, 18795),

Gene: Cece_77 Start: 45674, Stop: 46081, Start Num: 47

Candidate Starts for Cece_77:

(Start: 47 @45674 has 1 MA's), (65, 45725), (79, 45779), (87, 45815), (90, 45839), (100, 45860), (103, 45866), (135, 45974), (145, 46001), (152, 46019),

Gene: Cepens_19 Start: 18194, Stop: 18604, Start Num: 55

Candidate Starts for Cepens_19:

(Start: 55 @18194 has 8 MA's), (78, 18269), (87, 18314), (88, 18320), (102, 18362), (112, 18386), (117, 18407), (142, 18509), (156, 18554),

Gene: ChadMasterC_30 Start: 23885, Stop: 24319, Start Num: 61

Candidate Starts for ChadMasterC_30:

(43, 23855), (Start: 61 @23885 has 101 MA's), (82, 23969), (104, 24044), (114, 24068), (131, 24146), (140, 24167), (158, 24239), (170, 24290),

Gene: Chaelin_24 Start: 18361, Stop: 18783, Start Num: 48

Candidate Starts for Chaelin_24:

(Start: 48 @18361 has 66 MA's), (76, 18433), (86, 18484), (87, 18490), (88, 18496), (112, 18559), (124, 18601), (145, 18679), (156, 18727), (161, 18751), (164, 18769), (165, 18775),

Gene: Charles1_25 Start: 18659, Stop: 19081, Start Num: 49

Candidate Starts for Charles1_25:

(31, 18593), (Start: 49 @18659 has 256 MA's), (86, 18782), (87, 18788), (88, 18794), (112, 18857), (124, 18899), (145, 18977), (156, 19025), (161, 19049), (164, 19067), (165, 19073),

Gene: CharlieGBrown_24 Start: 18246, Stop: 18668, Start Num: 48

Candidate Starts for CharlieGBrown_24:

(Start: 48 @18246 has 66 MA's), (86, 18369), (87, 18375), (88, 18381), (112, 18444), (124, 18486), (145, 18564), (156, 18612), (161, 18636), (164, 18654), (165, 18660),

Gene: CharlottesWeb_22 Start: 17120, Stop: 17533, Start Num: 50

Candidate Starts for CharlottesWeb_22:

(Start: 41 @17099 has 1 MA's), (Start: 50 @17120 has 22 MA's), (66, 17162), (78, 17201), (87, 17246), (88, 17252), (105, 17300),

Gene: Charming_30 Start: 22736, Stop: 23170, Start Num: 61

Candidate Starts for Charming_30:

(43, 22706), (Start: 61 @22736 has 101 MA's), (82, 22820), (104, 22895), (114, 22919), (131, 22997), (140, 23018), (158, 23090), (170, 23141),

Gene: CheetO_25 Start: 18674, Stop: 19096, Start Num: 49

Candidate Starts for CheetO_25:

(31, 18608), (Start: 49 @18674 has 256 MA's), (86, 18797), (87, 18803), (88, 18809), (112, 18872), (124, 18914), (145, 18992), (156, 19040), (161, 19064), (164, 19082), (165, 19088),

Gene: Cher_24 Start: 18400, Stop: 18822, Start Num: 49

Candidate Starts for Cher_24:

(31, 18334), (Start: 49 @18400 has 256 MA's), (86, 18523), (87, 18529), (88, 18535), (112, 18598), (124, 18640), (145, 18718), (156, 18766), (161, 18790), (164, 18808), (165, 18814),

Gene: CherryCola_30 Start: 18503, Stop: 18946, Start Num: 61

Candidate Starts for CherryCola_30:

(Start: 61 @18503 has 101 MA's), (131, 18764), (170, 18920),

Gene: Chickadee_27 Start: 19601, Stop: 20032, Start Num: 61

Candidate Starts for Chickadee_27:

(20, 19433), (Start: 61 @19601 has 101 MA's), (82, 19685), (104, 19760), (137, 19880), (144, 19895), (158, 19955), (160, 19964), (169, 20003), (170, 20006),

Gene: Childish_24 Start: 18388, Stop: 18810, Start Num: 49

Candidate Starts for Childish_24:

(31, 18322), (Start: 49 @18388 has 256 MA's), (86, 18511), (87, 18517), (88, 18523), (112, 18586), (124, 18628), (145, 18706), (156, 18754), (161, 18778), (164, 18796), (165, 18802),

Gene: Chilliams_84 Start: 55298, Stop: 55687, Start Num: 58

Candidate Starts for Chilliams_84:

(Start: 58 @55298 has 16 MA's), (80, 55388), (89, 55436), (122, 55520), (135, 55574), (145, 55601), (149, 55613), (158, 55661),

Gene: Chipette_26 Start: 18897, Stop: 19319, Start Num: 49

Candidate Starts for Chipette_26:

(31, 18831), (Start: 49 @18897 has 256 MA's), (86, 19020), (87, 19026), (88, 19032), (112, 19095), (124, 19137), (145, 19215), (156, 19263), (161, 19287), (164, 19305), (165, 19311),

Gene: Chorkpop_25 Start: 18399, Stop: 18821, Start Num: 49

Candidate Starts for Chorkpop_25:

(31, 18333), (Start: 49 @18399 has 256 MA's), (86, 18522), (87, 18528), (88, 18534), (112, 18597), (124, 18639), (135, 18690), (145, 18717), (156, 18765), (161, 18789), (164, 18807), (165, 18813),

Gene: ChrisnMich_22 Start: 18293, Stop: 18706, Start Num: 54

Candidate Starts for ChrisnMich_22:

(Start: 54 @18293 has 26 MA's), (86, 18407), (87, 18413), (88, 18419), (99, 18455), (116, 18494), (118, 18506), (124, 18524), (145, 18602), (160, 18671), (165, 18698),

Gene: Chuni_24 Start: 18765, Stop: 19115, Start Num: 76

Candidate Starts for Chuni_24:

(31, 18627), (Start: 49 @18693 has 256 MA's), (76, 18765), (86, 18816), (87, 18822), (88, 18828), (112, 18891), (124, 18933), (145, 19011), (156, 19059), (161, 19083), (164, 19101), (165, 19107),

Gene: Chunky_25 Start: 18687, Stop: 19109, Start Num: 49

Candidate Starts for Chunky_25:

(31, 18621), (Start: 49 @18687 has 256 MA's), (86, 18810), (87, 18816), (88, 18822), (112, 18885), (124, 18927), (145, 19005), (156, 19053), (161, 19077), (164, 19095), (165, 19101),

Gene: Chute_24 Start: 18712, Stop: 19134, Start Num: 48

Candidate Starts for Chute_24:

(Start: 48 @18712 has 66 MA's), (76, 18784), (86, 18835), (87, 18841), (88, 18847), (112, 18910), (124, 18952), (145, 19030), (156, 19078), (161, 19102), (164, 19120), (165, 19126),

Gene: ClamChowder_28 Start: 18286, Stop: 18729, Start Num: 61

Candidate Starts for ClamChowder_28:

(Start: 61 @18286 has 101 MA's), (131, 18547), (170, 18703),

Gene: Clawz_53 Start: 29439, Stop: 29873, Start Num: 49

Candidate Starts for Clawz_53:

(Start: 49 @29439 has 256 MA's), (74, 29511), (78, 29526), (86, 29565), (108, 29637), (112, 29643), (124, 29685), (127, 29709), (132, 29733), (143, 29763), (150, 29778),

Gene: CloverMinnie_24 Start: 18544, Stop: 18954, Start Num: 50

Candidate Starts for CloverMinnie_24:

(Start: 50 @18544 has 22 MA's), (94, 18706), (102, 18718), (124, 18784), (127, 18808), (138, 18847), (145, 18862), (161, 18934),

Gene: Clown_30 Start: 20227, Stop: 20670, Start Num: 61

Candidate Starts for Clown_30:

(28, 20125), (30, 20134), (Start: 61 @20227 has 101 MA's), (79, 20299), (170, 20644),

Gene: Cobra_25 Start: 18680, Stop: 19102, Start Num: 49

Candidate Starts for Cobra_25:

(31, 18614), (Start: 49 @18680 has 256 MA's), (86, 18803), (87, 18809), (88, 18815), (112, 18878), (124, 18920), (145, 18998), (156, 19046), (161, 19070), (164, 19088), (165, 19094),

Gene: Coffee_27 Start: 20947, Stop: 21375, Start Num: 49

Candidate Starts for Coffee_27:

(40, 20920), (Start: 49 @20947 has 256 MA's), (Start: 58 @20962 has 16 MA's), (87, 21079), (88, 21085), (93, 21112), (105, 21133), (112, 21151), (145, 21271), (146, 21277), (160, 21340), (165, 21367),

Gene: Colbert_25 Start: 18677, Stop: 19099, Start Num: 49

Candidate Starts for Colbert_25:

(31, 18611), (Start: 49 @18677 has 256 MA's), (86, 18800), (87, 18806), (88, 18812), (112, 18875), (124, 18917), (145, 18995), (156, 19043), (161, 19067), (164, 19085), (165, 19091),

Gene: ColdSoup_54 Start: 29535, Stop: 29960, Start Num: 49

Candidate Starts for ColdSoup_54:

(Start: 49 @29535 has 256 MA's), (108, 29733), (127, 29805), (143, 29859), (150, 29874),

Gene: Coldpizza_25 Start: 21451, Stop: 21861, Start Num: 50

Candidate Starts for Coldpizza_25:

(Start: 50 @21451 has 22 MA's), (70, 21505), (71, 21508), (78, 21532), (88, 21583), (116, 21661),

Gene: Coletti_25 Start: 18712, Stop: 19134, Start Num: 48

Candidate Starts for Coletti_25:

(Start: 48 @18712 has 66 MA's), (76, 18784), (86, 18835), (87, 18841), (88, 18847), (112, 18910), (124, 18952), (145, 19030), (156, 19078), (161, 19102), (164, 19120), (165, 19126),

Gene: Cooper_23 Start: 18410, Stop: 18823, Start Num: 54

Candidate Starts for Cooper_23:

(Start: 54 @18410 has 26 MA's), (87, 18530), (88, 18536), (99, 18572), (112, 18599), (118, 18623), (124, 18641), (145, 18719), (160, 18788), (165, 18815),

Gene: Cornbread_24 Start: 18393, Stop: 18815, Start Num: 48

Candidate Starts for Cornbread_24:

(Start: 48 @18393 has 66 MA's), (86, 18516), (87, 18522), (88, 18528), (112, 18591), (124, 18633), (145, 18711), (156, 18759), (161, 18783), (164, 18801), (165, 18807),

Gene: Cornobble_24 Start: 18235, Stop: 18657, Start Num: 49

Candidate Starts for Cornobble_24:

(31, 18169), (Start: 49 @18235 has 256 MA's), (86, 18358), (87, 18364), (88, 18370), (112, 18433), (124, 18475), (145, 18553), (156, 18601), (161, 18625), (164, 18643), (165, 18649),

Gene: Cosmolli16_24 Start: 18394, Stop: 18816, Start Num: 49

Candidate Starts for Cosmolli16_24:

(31, 18328), (Start: 49 @18394 has 256 MA's), (86, 18517), (87, 18523), (88, 18529), (112, 18592), (124, 18634), (135, 18685), (145, 18712), (156, 18760), (161, 18784), (164, 18802), (165, 18808),

Gene: CoveyB_28 Start: 18086, Stop: 18529, Start Num: 61

Candidate Starts for CoveyB_28:

(Start: 61 @18086 has 101 MA's), (131, 18347), (170, 18503),

Gene: Craff_25 Start: 18681, Stop: 19103, Start Num: 49

Candidate Starts for Craff_25:

(31, 18615), (Start: 49 @18681 has 256 MA's), (86, 18804), (87, 18810), (88, 18816), (112, 18879), (124, 18921), (145, 18999), (156, 19047), (161, 19071), (164, 19089), (165, 19095),

Gene: Crownjwl_25 Start: 18448, Stop: 18870, Start Num: 49

Candidate Starts for Crownjwl_25:

(31, 18382), (Start: 49 @18448 has 256 MA's), (86, 18571), (87, 18577), (88, 18583), (112, 18646), (124, 18688), (145, 18766), (156, 18814), (161, 18838), (164, 18856), (165, 18862),

Gene: D12_19 Start: 18187, Stop: 18597, Start Num: 55

Candidate Starts for D12_19:

(Start: 55 @18187 has 8 MA's), (78, 18262), (87, 18307), (88, 18313), (102, 18355), (112, 18379), (117, 18400), (142, 18502), (156, 18547),

Gene: DaddyDaniels_25 Start: 18373, Stop: 18795, Start Num: 48

Candidate Starts for DaddyDaniels_25:

(Start: 48 @18373 has 66 MA's), (86, 18496), (87, 18502), (88, 18508), (112, 18571), (124, 18613), (145, 18691), (156, 18739), (161, 18763), (164, 18781), (165, 18787),

Gene: Daffy_25 Start: 18400, Stop: 18822, Start Num: 49

Candidate Starts for Daffy_25:

(31, 18334), (Start: 49 @18400 has 256 MA's), (86, 18523), (87, 18529), (88, 18535), (112, 18598), (124, 18640), (145, 18718), (156, 18766), (161, 18790), (164, 18808), (165, 18814),

Gene: Daka_25 Start: 18677, Stop: 19099, Start Num: 49

Candidate Starts for Daka_25:

(31, 18611), (Start: 49 @18677 has 256 MA's), (86, 18800), (87, 18806), (88, 18812), (112, 18875), (124, 18917), (145, 18995), (156, 19043), (161, 19067), (164, 19085), (165, 19091),

Gene: Danyall_28 Start: 18086, Stop: 18529, Start Num: 61

Candidate Starts for Danyall_28:

(Start: 61 @18086 has 101 MA's), (131, 18347), (170, 18503),

Gene: Dati_25 Start: 18390, Stop: 18812, Start Num: 48

Candidate Starts for Dati_25:

(Start: 48 @18390 has 66 MA's), (86, 18513), (87, 18519), (88, 18525), (112, 18588), (124, 18630), (145, 18708), (156, 18756), (161, 18780), (164, 18798), (165, 18804),

Gene: DelRivs_24 Start: 18389, Stop: 18811, Start Num: 48

Candidate Starts for DelRivs_24:

(Start: 48 @18389 has 66 MA's), (87, 18518), (88, 18524), (112, 18587), (124, 18629), (145, 18707), (156, 18755), (161, 18779), (164, 18797), (165, 18803),

Gene: Delrey21_29 Start: 23097, Stop: 23528, Start Num: 61

Candidate Starts for Delrey21_29:

(45, 23070), (Start: 61 @23097 has 101 MA's), (82, 23181), (88, 23211), (89, 23226), (104, 23256), (113, 23277), (131, 23358), (134, 23364), (144, 23391), (155, 23436), (158, 23451), (169, 23499), (170, 23502),

Gene: Derg_25 Start: 21689, Stop: 22123, Start Num: 52

Candidate Starts for Derg_25:

(Start: 52 @21689 has 27 MA's), (77, 21743), (82, 21773), (104, 21848), (131, 21950), (140, 21971), (158, 22043), (170, 22094),

Gene: Derpp_24 Start: 18236, Stop: 18658, Start Num: 48

Candidate Starts for Derpp_24:

(Start: 48 @18236 has 66 MA's), (86, 18359), (87, 18365), (88, 18371), (112, 18434), (124, 18476), (145, 18554), (156, 18602), (161, 18626), (164, 18644), (165, 18650),

Gene: Dexdert_28 Start: 20032, Stop: 20463, Start Num: 61

Candidate Starts for Dexdert_28:

(Start: 61 @20032 has 101 MA's), (82, 20116), (104, 20191), (113, 20212), (137, 20311), (144, 20326), (158, 20386), (169, 20434), (170, 20437), (171, 20446),

Gene: Dice_24 Start: 18377, Stop: 18799, Start Num: 49

Candidate Starts for Dice_24:

(31, 18311), (Start: 49 @18377 has 256 MA's), (86, 18500), (87, 18506), (88, 18512), (112, 18575), (124, 18617), (145, 18695), (156, 18743), (161, 18767), (164, 18785), (165, 18791),

Gene: DigitDog_25 Start: 18981, Stop: 19397, Start Num: 52

Candidate Starts for DigitDog_25:

(Start: 52 @18981 has 27 MA's), (112, 19173), (124, 19215), (135, 19266), (166, 19392),

Gene: Dingo_25 Start: 18661, Stop: 19083, Start Num: 49

Candidate Starts for Dingo_25:

(31, 18595), (Start: 49 @18661 has 256 MA's), (86, 18784), (87, 18790), (88, 18796), (112, 18859), (124, 18901), (145, 18979), (156, 19027), (161, 19051), (164, 19069), (165, 19075),

Gene: Dione_24 Start: 18378, Stop: 18800, Start Num: 49

Candidate Starts for Dione_24:

(31, 18312), (Start: 49 @18378 has 256 MA's), (86, 18501), (87, 18507), (88, 18513), (112, 18576), (124, 18618), (145, 18696), (156, 18744), (161, 18768), (164, 18786), (165, 18792),

Gene: DirtJuice_25 Start: 18663, Stop: 19085, Start Num: 49

Candidate Starts for DirtJuice_25:

(31, 18597), (Start: 49 @18663 has 256 MA's), (86, 18786), (87, 18792), (88, 18798), (112, 18861), (124, 18903), (145, 18981), (156, 19029), (161, 19053), (164, 19071), (165, 19077),

Gene: DoctorFroggo_29 Start: 23097, Stop: 23528, Start Num: 61

Candidate Starts for DoctorFroggo_29:

(45, 23070), (Start: 61 @23097 has 101 MA's), (82, 23181), (88, 23211), (89, 23226), (104, 23256), (113, 23277), (131, 23358), (134, 23364), (144, 23391), (155, 23436), (158, 23451), (169, 23499), (170, 23502),

Gene: Doddsville_25 Start: 18390, Stop: 18812, Start Num: 48

Candidate Starts for Doddsville_25:

(Start: 48 @18390 has 66 MA's), (86, 18513), (87, 18519), (88, 18525), (112, 18588), (124, 18630), (145, 18708), (156, 18756), (161, 18780), (164, 18798), (165, 18804),

Gene: Dodo_94 Start: 51011, Stop: 51421, Start Num: 44

Candidate Starts for Dodo_94:

(Start: 44 @51011 has 4 MA's), (76, 51098), (77, 51101), (82, 51131), (145, 51341), (152, 51359),

Gene: DoesntMatter_25 Start: 18659, Stop: 19081, Start Num: 49

Candidate Starts for DoesntMatter_25:

(31, 18593), (Start: 49 @18659 has 256 MA's), (86, 18782), (87, 18788), (88, 18794), (112, 18857), (124, 18899), (135, 18950), (145, 18977), (156, 19025), (161, 19049), (164, 19067), (165, 19073),

Gene: DolOn_26 Start: 18910, Stop: 19332, Start Num: 49

Candidate Starts for DolOn_26:

(31, 18844), (Start: 49 @18910 has 256 MA's), (86, 19033), (87, 19039), (88, 19045), (112, 19108), (124, 19150), (145, 19228), (156, 19276), (161, 19300), (164, 19318), (165, 19324),

Gene: DonSanchon_24 Start: 18376, Stop: 18798, Start Num: 49

Candidate Starts for DonSanchon_24:

(31, 18310), (Start: 49 @18376 has 256 MA's), (86, 18499), (87, 18505), (88, 18511), (112, 18574), (124, 18616), (145, 18694), (156, 18742), (161, 18766), (164, 18784), (165, 18790),

Gene: DonTron_53 Start: 29575, Stop: 30000, Start Num: 49

Candidate Starts for DonTron_53:

(Start: 49 @29575 has 256 MA's), (108, 29773), (127, 29845), (143, 29899), (150, 29914),

Gene: Donny_25 Start: 19394, Stop: 19810, Start Num: 52

Candidate Starts for Donny_25:

(Start: 52 @19394 has 27 MA's), (73, 19454), (88, 19523), (124, 19628), (128, 19658), (166, 19805),

Gene: Dori_22 Start: 16225, Stop: 16629, Start Num: 53

Candidate Starts for Dori_22:

(Start: 53 @16225 has 4 MA's), (78, 16303), (87, 16348), (88, 16354), (104, 16399), (112, 16420), (124, 16462), (127, 16486), (135, 16513), (138, 16525), (159, 16603),

Gene: DuchessDung_23 Start: 17527, Stop: 17949, Start Num: 48

Candidate Starts for DuchessDung_23:

(Start: 48 @17527 has 66 MA's), (86, 17650), (87, 17656), (88, 17662), (112, 17725), (124, 17767), (145, 17845), (156, 17893), (161, 17917), (164, 17935), (165, 17941),

Gene: Duggie_24 Start: 18392, Stop: 18814, Start Num: 48

Candidate Starts for Duggie_24:

(Start: 48 @18392 has 66 MA's), (86, 18515), (87, 18521), (88, 18527), (112, 18590), (124, 18632), (145, 18710), (156, 18758), (161, 18782), (164, 18800), (165, 18806),

Gene: DunneganBoMo_77 Start: 48875, Stop: 49255, Start Num: 58

Candidate Starts for DunneganBoMo_77:

(Start: 58 @48875 has 16 MA's), (67, 48911), (88, 48998), (113, 49061), (119, 49088), (122, 49097), (151, 49193),

Gene: Durga_25 Start: 18689, Stop: 19111, Start Num: 48

Candidate Starts for Durga_25:

(Start: 48 @18689 has 66 MA's), (86, 18812), (87, 18818), (88, 18824), (112, 18887), (124, 18929), (145, 19007), (156, 19055), (161, 19079), (164, 19097), (165, 19103),

Gene: EMoore_26 Start: 21587, Stop: 22018, Start Num: 61

Candidate Starts for EMoore_26:

(38, 21536), (45, 21560), (Start: 49 @21563 has 256 MA's), (Start: 61 @21587 has 101 MA's), (82, 21671), (89, 21716), (131, 21848), (155, 21926), (160, 21950), (169, 21989), (170, 21992),

Gene: Eaglehorse_27 Start: 20855, Stop: 21283, Start Num: 49

Candidate Starts for Eaglehorse_27:

(40, 20828), (Start: 49 @20855 has 256 MA's), (Start: 58 @20870 has 16 MA's), (87, 20987), (88, 20993), (93, 21020), (105, 21041), (112, 21059), (145, 21179), (146, 21185), (160, 21248), (165, 21275),

Gene: EastView9101_24 Start: 19041, Stop: 19457, Start Num: 52

Candidate Starts for EastView9101_24:

(Start: 52 @19041 has 27 MA's), (88, 19170), (112, 19233), (166, 19452),

Gene: EdmundFerry_26 Start: 19630, Stop: 20061, Start Num: 61

Candidate Starts for EdmundFerry_26:

(20, 19462), (Start: 61 @19630 has 101 MA's), (82, 19714), (104, 19789), (137, 19909), (144, 19924), (158, 19984), (160, 19993), (169, 20032), (170, 20035),

Gene: Egi03_26 Start: 17805, Stop: 18248, Start Num: 61

Candidate Starts for Egi03_26:

(12, 17589), (18, 17631), (Start: 61 @17805 has 101 MA's), (131, 18066), (170, 18222),

Gene: Ellewin_79 Start: 48470, Stop: 48850, Start Num: 58

Candidate Starts for Ellewin_79:

(Start: 58 @48470 has 16 MA's), (67, 48506), (88, 48593), (113, 48656), (119, 48683), (122, 48692), (151, 48788),

Gene: ElvisPhasley_25 Start: 18708, Stop: 19130, Start Num: 48

Candidate Starts for ElvisPhasley_25:

(Start: 48 @18708 has 66 MA's), (76, 18780), (86, 18831), (87, 18837), (88, 18843), (112, 18906), (124, 18948), (145, 19026), (156, 19074), (161, 19098), (164, 19116), (165, 19122),

Gene: Emiris_25 Start: 18670, Stop: 19092, Start Num: 49

Candidate Starts for Emiris_25:

(31, 18604), (Start: 49 @18670 has 256 MA's), (86, 18793), (87, 18799), (88, 18805), (112, 18868), (124, 18910), (145, 18988), (156, 19036), (161, 19060), (164, 19078), (165, 19084),

Gene: EmpTee_25 Start: 18676, Stop: 19098, Start Num: 49

Candidate Starts for EmpTee_25:

(31, 18610), (Start: 49 @18676 has 256 MA's), (86, 18799), (87, 18805), (88, 18811), (112, 18874), (124, 18916), (145, 18994), (156, 19042), (161, 19066), (164, 19084), (165, 19090),

Gene: Epah_22 Start: 18304, Stop: 18717, Start Num: 54

Candidate Starts for Epah_22:

(Start: 54 @18304 has 26 MA's), (86, 18418), (87, 18424), (88, 18430), (99, 18466), (112, 18493), (116, 18505), (118, 18517), (124, 18535), (145, 18613), (160, 18682), (165, 18709),

Gene: Erasmago_85 Start: 47346, Stop: 47723, Start Num: 60

Candidate Starts for Erasmago_85:

(Start: 46 @47316 has 2 MA's), (Start: 60 @47346 has 1 MA's), (78, 47412), (80, 47430), (145, 47643), (152, 47661),

Gene: Eremos_25 Start: 18676, Stop: 19098, Start Num: 49

Candidate Starts for Eremos_25:

(31, 18610), (Start: 49 @18676 has 256 MA's), (86, 18799), (87, 18805), (88, 18811), (112, 18874), (124, 18916), (145, 18994), (156, 19042), (161, 19066), (164, 19084), (165, 19090),

Gene: Etaye_25 Start: 18662, Stop: 19084, Start Num: 48

Candidate Starts for Etaye_25:

(Start: 48 @18662 has 66 MA's), (86, 18785), (87, 18791), (88, 18797), (112, 18860), (124, 18902), (145, 18980), (156, 19028), (161, 19052), (164, 19070), (165, 19076),

Gene: Eugenia_25 Start: 18689, Stop: 19111, Start Num: 49

Candidate Starts for Eugenia_25:

(31, 18623), (Start: 49 @18689 has 256 MA's), (86, 18812), (87, 18818), (88, 18824), (112, 18887), (124, 18929), (145, 19007), (156, 19055), (161, 19079), (164, 19097), (165, 19103),

Gene: Evaa_23 Start: 18465, Stop: 18881, Start Num: 50

Candidate Starts for Evaa_23:

(Start: 50 @18465 has 22 MA's), (78, 18549), (88, 18600), (104, 18645), (127, 18732), (133, 18756),

Gene: Evamon_26 Start: 17572, Stop: 18015, Start Num: 61

Candidate Starts for Evamon_26:

(Start: 61 @17572 has 101 MA's), (131, 17833), (170, 17989),

Gene: Fanaw_22 Start: 18998, Stop: 19411, Start Num: 54

Candidate Starts for Fanaw_22:

(Start: 54 @18998 has 26 MA's), (86, 19112), (87, 19118), (88, 19124), (99, 19160), (116, 19199), (118, 19211), (124, 19229), (145, 19307), (165, 19403),

Gene: Fang_25 Start: 18690, Stop: 19112, Start Num: 49

Candidate Starts for Fang_25:

(31, 18624), (Start: 49 @18690 has 256 MA's), (86, 18813), (87, 18819), (88, 18825), (112, 18888), (124, 18930), (145, 19008), (156, 19056), (161, 19080), (164, 19098), (165, 19104),

Gene: Faze9_27 Start: 20951, Stop: 21379, Start Num: 49

Candidate Starts for Faze9_27:

(40, 20924), (Start: 49 @20951 has 256 MA's), (Start: 58 @20966 has 16 MA's), (87, 21083), (88, 21089), (93, 21116), (105, 21137), (112, 21155), (145, 21275), (146, 21281), (160, 21344), (165, 21371),

Gene: FelixTres_24 Start: 18607, Stop: 19017, Start Num: 50

Candidate Starts for FelixTres_24:

(Start: 50 @18607 has 22 MA's), (94, 18769), (102, 18781), (124, 18847), (127, 18871), (138, 18910), (145, 18925),

Gene: Fireball_27 Start: 17704, Stop: 18147, Start Num: 61
Candidate Starts for Fireball_27:
(Start: 61 @17704 has 101 MA's), (131, 17965), (170, 18121),

Gene: Fitzgerald_28 Start: 23319, Stop: 23753, Start Num: 61
Candidate Starts for Fitzgerald_28:
(43, 23289), (Start: 61 @23319 has 101 MA's), (82, 23403), (104, 23478), (131, 23580), (140, 23601),
(158, 23673), (170, 23724),

Gene: Flake_26 Start: 18712, Stop: 19134, Start Num: 48
Candidate Starts for Flake_26:
(Start: 48 @18712 has 66 MA's), (76, 18784), (86, 18835), (87, 18841), (88, 18847), (112, 18910),
(124, 18952), (145, 19030), (156, 19078), (161, 19102), (164, 19120), (165, 19126),

Gene: Flatwoods_30 Start: 22050, Stop: 22484, Start Num: 52
Candidate Starts for Flatwoods_30:
(Start: 52 @22050 has 27 MA's), (77, 22104), (82, 22134), (104, 22209), (131, 22311), (140, 22332),
(158, 22404), (170, 22455),

Gene: FleetyMac_24 Start: 18675, Stop: 19097, Start Num: 48
Candidate Starts for FleetyMac_24:
(Start: 48 @18675 has 66 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915),
(145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: FloraSnap32_87 Start: 52458, Stop: 52841, Start Num: 57
Candidate Starts for FloraSnap32_87:
(Start: 57 @52458 has 4 MA's), (67, 52497), (68, 52500), (89, 52599), (100, 52623), (111, 52644),
(119, 52674), (122, 52683), (135, 52737), (145, 52764), (149, 52776),

Gene: FluffyNinja_25 Start: 18682, Stop: 19104, Start Num: 49
Candidate Starts for FluffyNinja_25:
(31, 18616), (Start: 49 @18682 has 256 MA's), (86, 18805), (87, 18811), (88, 18817), (112, 18880),
(124, 18922), (145, 19000), (156, 19048), (161, 19072), (164, 19090), (165, 19096),

Gene: ForDig_21 Start: 17846, Stop: 18259, Start Num: 48
Candidate Starts for ForDig_21:
(Start: 48 @17846 has 66 MA's), (99, 18014), (112, 18041), (124, 18083), (142, 18158),

Gene: Fortunato_23 Start: 19330, Stop: 19743, Start Num: 54
Candidate Starts for Fortunato_23:
(Start: 54 @19330 has 26 MA's), (86, 19444), (87, 19450), (88, 19456), (99, 19492), (116, 19531),
(118, 19543), (124, 19561), (145, 19639), (151, 19654), (160, 19708), (161, 19711), (165, 19735),

Gene: Forza_96 Start: 51899, Stop: 52306, Start Num: 58
Candidate Starts for Forza_96:
(Start: 57 @51896 has 4 MA's), (Start: 58 @51899 has 16 MA's), (67, 51935), (80, 51989), (86, 52010),
(119, 52112), (123, 52124), (126, 52166), (127, 52175), (135, 52202), (151, 52244), (156, 52277),
(158, 52289), (160, 52298),

Gene: Fosterous_28 Start: 23152, Stop: 23586, Start Num: 61
Candidate Starts for Fosterous_28:
(43, 23122), (Start: 61 @23152 has 101 MA's), (82, 23236), (104, 23311), (114, 23335), (131, 23413),
(158, 23506), (170, 23557),

Gene: Fozzie_24 Start: 18685, Stop: 19107, Start Num: 49

Candidate Starts for Fozzie_24:

(31, 18619), (Start: 49 @18685 has 256 MA's), (86, 18808), (87, 18814), (88, 18820), (112, 18883), (124, 18925), (145, 19003), (156, 19051), (161, 19075), (164, 19093), (165, 19099),

Gene: Frankicide_25 Start: 18676, Stop: 19098, Start Num: 49

Candidate Starts for Frankicide_25:

(31, 18610), (Start: 49 @18676 has 256 MA's), (86, 18799), (87, 18805), (88, 18811), (112, 18874), (124, 18916), (145, 18994), (156, 19042), (161, 19066), (164, 19084), (165, 19090),

Gene: Frederick_23 Start: 19339, Stop: 19752, Start Num: 54

Candidate Starts for Frederick_23:

(Start: 54 @19339 has 26 MA's), (86, 19453), (87, 19459), (88, 19465), (99, 19501), (116, 19540), (118, 19552), (124, 19570), (145, 19648), (151, 19663), (160, 19717), (161, 19720), (165, 19744),

Gene: FremontTroll_25 Start: 18373, Stop: 18795, Start Num: 49

Candidate Starts for FremontTroll_25:

(31, 18307), (Start: 49 @18373 has 256 MA's), (86, 18496), (87, 18502), (88, 18508), (112, 18571), (124, 18613), (145, 18691), (156, 18739), (161, 18763), (164, 18781), (165, 18787),

Gene: FrenchFry_27 Start: 20954, Stop: 21382, Start Num: 49

Candidate Starts for FrenchFry_27:

(40, 20927), (Start: 49 @20954 has 256 MA's), (Start: 58 @20969 has 16 MA's), (87, 21086), (88, 21092), (93, 21119), (105, 21140), (112, 21158), (145, 21278), (146, 21284), (160, 21347), (165, 21374),

Gene: Fresco_22 Start: 17225, Stop: 17635, Start Num: 50

Candidate Starts for Fresco_22:

(Start: 50 @17225 has 22 MA's), (78, 17306), (86, 17345), (88, 17357), (102, 17399), (105, 17405), (112, 17423), (133, 17513),

Gene: Freya_24 Start: 18371, Stop: 18793, Start Num: 49

Candidate Starts for Freya_24:

(31, 18305), (Start: 49 @18371 has 256 MA's), (86, 18494), (87, 18500), (88, 18506), (112, 18569), (124, 18611), (145, 18689), (156, 18737), (161, 18761), (164, 18779), (165, 18785),

Gene: FriarPreacher_25 Start: 18696, Stop: 19118, Start Num: 49

Candidate Starts for FriarPreacher_25:

(31, 18630), (Start: 49 @18696 has 256 MA's), (86, 18819), (87, 18825), (88, 18831), (112, 18894), (124, 18936), (145, 19014), (156, 19062), (161, 19086), (164, 19104), (165, 19110),

Gene: Fringe_25 Start: 18660, Stop: 19082, Start Num: 49

Candidate Starts for Fringe_25:

(31, 18594), (Start: 49 @18660 has 256 MA's), (86, 18783), (87, 18789), (88, 18795), (112, 18858), (124, 18900), (145, 18978), (156, 19026), (161, 19050), (164, 19068), (165, 19074),

Gene: FuegoCuervo_32 Start: 21703, Stop: 22137, Start Num: 61

Candidate Starts for FuegoCuervo_32:

(43, 21664), (Start: 61 @21703 has 101 MA's), (82, 21787), (104, 21862), (131, 21964), (140, 21985), (158, 22057), (170, 22108),

Gene: FugateOSU_24 Start: 18382, Stop: 18804, Start Num: 49

Candidate Starts for FugateOSU_24:

(31, 18316), (Start: 49 @18382 has 256 MA's), (86, 18505), (87, 18511), (88, 18517), (112, 18580), (124, 18622), (135, 18673), (145, 18700), (156, 18748), (161, 18772), (164, 18790), (165, 18796),

Gene: Fugax_28 Start: 18286, Stop: 18729, Start Num: 61

Candidate Starts for Fugax_28:

(Start: 61 @18286 has 101 MA's), (131, 18547), (170, 18703),

Gene: Funsized_28 Start: 21759, Stop: 22175, Start Num: 52

Candidate Starts for Funsized_28:

(Start: 52 @21759 has 27 MA's), (87, 21882), (88, 21888), (99, 21924), (124, 21993), (135, 22044), (145, 22071), (151, 22086), (165, 22167),

Gene: GMA2_25 Start: 22256, Stop: 22675, Start Num: 51

Candidate Starts for GMA2_25:

(51, 22256), (Start: 58 @22268 has 16 MA's), (74, 22325), (96, 22424), (119, 22481), (126, 22535), (127, 22544), (145, 22595), (158, 22655),

Gene: GTE6_27 Start: 20119, Stop: 20550, Start Num: 61

Candidate Starts for GTE6_27:

(20, 19951), (Start: 61 @20119 has 101 MA's), (82, 20203), (104, 20278), (137, 20398), (144, 20413), (160, 20482), (169, 20521), (170, 20524),

Gene: Gaea_29 Start: 21701, Stop: 22135, Start Num: 52

Candidate Starts for Gaea_29:

(Start: 52 @21701 has 27 MA's), (77, 21755), (82, 21785), (104, 21860), (131, 21962), (140, 21983), (158, 22055), (170, 22106),

Gene: Galadriel_30 Start: 23641, Stop: 24075, Start Num: 61

Candidate Starts for Galadriel_30:

(43, 23611), (Start: 61 @23641 has 101 MA's), (82, 23725), (104, 23800), (114, 23824), (131, 23902), (158, 23995), (170, 24046),

Gene: Gareth_24 Start: 18379, Stop: 18801, Start Num: 49

Candidate Starts for Gareth_24:

(31, 18313), (Start: 49 @18379 has 256 MA's), (86, 18502), (87, 18508), (88, 18514), (112, 18577), (124, 18619), (145, 18697), (156, 18745), (161, 18769), (164, 18787), (165, 18793),

Gene: GeneCoco_25 Start: 18681, Stop: 19103, Start Num: 48

Candidate Starts for GeneCoco_25:

(Start: 48 @18681 has 66 MA's), (86, 18804), (87, 18810), (88, 18816), (112, 18879), (124, 18921), (145, 18999), (156, 19047), (161, 19071), (164, 19089), (165, 19095),

Gene: Geodirt_27 Start: 22624, Stop: 23058, Start Num: 61

Candidate Starts for Geodirt_27:

(43, 22594), (Start: 61 @22624 has 101 MA's), (82, 22708), (104, 22783), (114, 22807), (131, 22885), (158, 22978), (170, 23029),

Gene: Gezellig_26 Start: 17704, Stop: 18147, Start Num: 61

Candidate Starts for Gezellig_26:

(Start: 61 @17704 has 101 MA's), (131, 17965), (170, 18121),

Gene: GinPorsche_22 Start: 18304, Stop: 18717, Start Num: 54

Candidate Starts for GinPorsche_22:

(Start: 54 @18304 has 26 MA's), (86, 18418), (87, 18424), (88, 18430), (99, 18466), (112, 18493), (116, 18505), (118, 18517), (124, 18535), (145, 18613), (160, 18682), (165, 18709),

Gene: Giraffe_25 Start: 18384, Stop: 18806, Start Num: 49

Candidate Starts for Giraffe_25:

(31, 18318), (Start: 49 @18384 has 256 MA's), (86, 18507), (87, 18513), (88, 18519), (112, 18582), (124, 18624), (135, 18675), (145, 18702), (156, 18750), (161, 18774), (164, 18792), (165, 18798),

Gene: Glass_27 Start: 20954, Stop: 21382, Start Num: 49

Candidate Starts for Glass_27:

(40, 20927), (Start: 49 @20954 has 256 MA's), (Start: 58 @20969 has 16 MA's), (87, 21086), (88, 21092), (93, 21119), (105, 21140), (112, 21158), (145, 21278), (146, 21284), (160, 21347), (165, 21374),

Gene: GodPhather_20 Start: 18473, Stop: 18883, Start Num: 55

Candidate Starts for GodPhather_20:

(Start: 55 @18473 has 8 MA's), (78, 18548), (87, 18593), (88, 18599), (102, 18641), (112, 18665), (117, 18686), (142, 18788), (156, 18833),

Gene: Godines_27 Start: 20847, Stop: 21275, Start Num: 49

Candidate Starts for Godines_27:

(40, 20820), (Start: 49 @20847 has 256 MA's), (87, 20979), (88, 20985), (93, 21012), (105, 21033), (112, 21051), (145, 21171), (146, 21177), (160, 21240), (165, 21267),

Gene: GodonK_84 Start: 43620, Stop: 44033, Start Num: 44

Candidate Starts for GodonK_84:

(Start: 44 @43620 has 4 MA's), (Start: 60 @43653 has 1 MA's), (84, 43746), (88, 43770), (97, 43803), (110, 43830), (112, 43833), (128, 43905), (135, 43926), (149, 43965), (161, 44025),

Gene: GoldenEssence_73 Start: 47214, Stop: 47597, Start Num: 57

Candidate Starts for GoldenEssence_73:

(Start: 57 @47214 has 4 MA's), (67, 47253), (89, 47355), (100, 47379), (111, 47400), (122, 47439), (135, 47493), (145, 47520), (149, 47532),

Gene: Gophee_25 Start: 18662, Stop: 19084, Start Num: 49

Candidate Starts for Gophee_25:

(31, 18596), (Start: 49 @18662 has 256 MA's), (86, 18785), (87, 18791), (88, 18797), (112, 18860), (124, 18902), (145, 18980), (156, 19028), (161, 19052), (164, 19070), (165, 19076),

Gene: Grand2040_24 Start: 18399, Stop: 18821, Start Num: 49

Candidate Starts for Grand2040_24:

(31, 18333), (Start: 49 @18399 has 256 MA's), (86, 18522), (87, 18528), (88, 18534), (112, 18597), (124, 18639), (135, 18690), (145, 18717), (156, 18765), (161, 18789), (164, 18807), (165, 18813),

Gene: Grumio_53 Start: 29013, Stop: 29438, Start Num: 49

Candidate Starts for Grumio_53:

(Start: 49 @29013 has 256 MA's), (108, 29211), (127, 29283), (143, 29337), (150, 29352),

Gene: Gustavo_29 Start: 21853, Stop: 22287, Start Num: 61

Candidate Starts for Gustavo_29:

(Start: 54 @21844 has 26 MA's), (Start: 61 @21853 has 101 MA's), (82, 21937), (104, 22012), (131, 22114), (140, 22135), (155, 22192), (158, 22207), (170, 22258),

Gene: Gwennie1_25 Start: 18721, Stop: 19143, Start Num: 48

Candidate Starts for Gwennie1_25:

(Start: 48 @18721 has 66 MA's), (76, 18793), (86, 18844), (87, 18850), (88, 18856), (112, 18919), (124, 18961), (145, 19039), (156, 19087), (161, 19111), (164, 19129), (165, 19135),

Gene: Gwilliam_25 Start: 18672, Stop: 19094, Start Num: 49

Candidate Starts for Gwilliam_25:

(31, 18606), (Start: 49 @18672 has 256 MA's), (86, 18795), (87, 18801), (88, 18807), (112, 18870), (124, 18912), (145, 18990), (156, 19038), (161, 19062), (164, 19080), (165, 19086),

Gene: Gyarad_0025 Start: 18674, Stop: 19096, Start Num: 49

Candidate Starts for Gyarad_0025:

(31, 18608), (Start: 49 @18674 has 256 MA's), (86, 18797), (87, 18803), (88, 18809), (112, 18872), (124, 18914), (145, 18992), (156, 19040), (161, 19064), (164, 19082), (165, 19088),

Gene: HSavage_25 Start: 18682, Stop: 19104, Start Num: 49

Candidate Starts for HSavage_25:

(31, 18616), (Start: 49 @18682 has 256 MA's), (86, 18805), (87, 18811), (88, 18817), (112, 18880), (124, 18922), (145, 19000), (156, 19048), (161, 19072), (164, 19090), (165, 19096),

Gene: Haimas_25 Start: 18677, Stop: 19099, Start Num: 49

Candidate Starts for Haimas_25:

(31, 18611), (Start: 49 @18677 has 256 MA's), (86, 18800), (87, 18806), (88, 18812), (112, 18875), (124, 18917), (145, 18995), (156, 19043), (161, 19067), (164, 19085), (165, 19091),

Gene: Haleema_24 Start: 18399, Stop: 18821, Start Num: 49

Candidate Starts for Haleema_24:

(31, 18333), (Start: 49 @18399 has 256 MA's), (86, 18522), (87, 18528), (88, 18534), (112, 18597), (124, 18639), (145, 18717), (156, 18765), (161, 18789), (164, 18807), (165, 18813),

Gene: Hally898_22 Start: 18304, Stop: 18717, Start Num: 54

Candidate Starts for Hally898_22:

(Start: 54 @18304 has 26 MA's), (86, 18418), (87, 18424), (88, 18430), (99, 18466), (112, 18493), (116, 18505), (118, 18517), (124, 18535), (145, 18613), (160, 18682), (165, 18709),

Gene: Halo3_27 Start: 17997, Stop: 18440, Start Num: 61

Candidate Starts for Halo3_27:

(Start: 61 @17997 has 101 MA's), (131, 18258), (170, 18414),

Gene: Hamish_25 Start: 18669, Stop: 19091, Start Num: 49

Candidate Starts for Hamish_25:

(31, 18603), (Start: 49 @18669 has 256 MA's), (86, 18792), (87, 18798), (88, 18804), (112, 18867), (124, 18909), (145, 18987), (156, 19035), (161, 19059), (164, 19077), (165, 19083),

Gene: Hangman_23 Start: 19331, Stop: 19744, Start Num: 54

Candidate Starts for Hangman_23:

(Start: 54 @19331 has 26 MA's), (86, 19445), (87, 19451), (88, 19457), (99, 19493), (116, 19532), (118, 19544), (124, 19562), (145, 19640), (160, 19709), (161, 19712), (165, 19736),

Gene: Hans_30 Start: 21408, Stop: 21839, Start Num: 61

Candidate Starts for Hans_30:

(13, 21216), (45, 21381), (Start: 61 @21408 has 101 MA's), (82, 21492), (113, 21588), (131, 21669), (134, 21675), (137, 21687), (155, 21747), (160, 21771), (169, 21810), (170, 21813),

Gene: Happabalu_25 Start: 18391, Stop: 18813, Start Num: 48

Candidate Starts for Happabalu_25:

(Start: 48 @18391 has 66 MA's), (86, 18514), (87, 18520), (88, 18526), (112, 18589), (124, 18631), (145, 18709), (156, 18757), (161, 18781), (164, 18799), (165, 18805),

Gene: Hartsy_25 Start: 18692, Stop: 19114, Start Num: 48

Candidate Starts for Hartsy_25:

(Start: 48 @18692 has 66 MA's), (76, 18764), (86, 18815), (87, 18821), (88, 18827), (112, 18890), (124, 18932), (145, 19010), (156, 19058), (161, 19082), (164, 19100), (165, 19106),

Gene: Harvey_25 Start: 18698, Stop: 19120, Start Num: 49

Candidate Starts for Harvey_25:

(31, 18632), (Start: 49 @18698 has 256 MA's), (86, 18821), (87, 18827), (88, 18833), (112, 18896), (124, 18938), (145, 19016), (156, 19064), (161, 19088), (164, 19106), (165, 19112),

Gene: Hashim76_29 Start: 19154, Stop: 19570, Start Num: 52

Candidate Starts for Hashim76_29:

(Start: 52 @19154 has 27 MA's), (87, 19277), (92, 19307), (145, 19466), (151, 19481), (165, 19562),

Gene: Heath_22 Start: 18962, Stop: 19375, Start Num: 54

Candidate Starts for Heath_22:

(Start: 54 @18962 has 26 MA's), (86, 19076), (87, 19082), (88, 19088), (99, 19124), (116, 19163), (118, 19175), (124, 19193), (145, 19271), (160, 19340), (161, 19343), (165, 19367),

Gene: Hedgerow_27 Start: 20936, Stop: 21364, Start Num: 49

Candidate Starts for Hedgerow_27:

(40, 20909), (Start: 49 @20936 has 256 MA's), (Start: 58 @20951 has 16 MA's), (87, 21068), (88, 21074), (93, 21101), (105, 21122), (112, 21140), (145, 21260), (146, 21266), (160, 21329), (165, 21356),

Gene: Held_25 Start: 18383, Stop: 18805, Start Num: 49

Candidate Starts for Held_25:

(31, 18317), (Start: 49 @18383 has 256 MA's), (86, 18506), (87, 18512), (88, 18518), (112, 18581), (124, 18623), (145, 18701), (156, 18749), (161, 18773), (164, 18791), (165, 18797),

Gene: HenryJackson_24 Start: 18399, Stop: 18821, Start Num: 49

Candidate Starts for HenryJackson_24:

(31, 18333), (Start: 49 @18399 has 256 MA's), (86, 18522), (87, 18528), (88, 18534), (112, 18597), (124, 18639), (145, 18717), (156, 18765), (161, 18789), (164, 18807), (165, 18813),

Gene: Hertubise_25 Start: 18691, Stop: 19113, Start Num: 49

Candidate Starts for Hertubise_25:

(31, 18625), (Start: 49 @18691 has 256 MA's), (86, 18814), (87, 18820), (88, 18826), (112, 18889), (124, 18931), (145, 19009), (156, 19057), (161, 19081), (164, 19099), (165, 19105),

Gene: Hetaeria_25 Start: 18692, Stop: 19114, Start Num: 49

Candidate Starts for Hetaeria_25:

(31, 18626), (Start: 49 @18692 has 256 MA's), (86, 18815), (87, 18821), (88, 18827), (112, 18890), (124, 18932), (135, 18983), (145, 19010), (156, 19058), (161, 19082), (164, 19100), (165, 19106),

Gene: HighStump_24 Start: 18382, Stop: 18804, Start Num: 49

Candidate Starts for HighStump_24:

(31, 18316), (Start: 49 @18382 has 256 MA's), (86, 18505), (87, 18511), (88, 18517), (112, 18580), (124, 18622), (135, 18673), (145, 18700), (156, 18748), (161, 18772), (164, 18790), (165, 18796),

Gene: Hocus_24 Start: 18385, Stop: 18807, Start Num: 48

Candidate Starts for Hocus_24:

(Start: 48 @18385 has 66 MA's), (86, 18508), (87, 18514), (88, 18520), (112, 18583), (124, 18625), (145, 18703), (156, 18751), (161, 18775), (164, 18793), (165, 18799),

Gene: HogWash_24 Start: 18679, Stop: 19101, Start Num: 48

Candidate Starts for HogWash_24:

(Start: 48 @18679 has 66 MA's), (86, 18802), (87, 18808), (88, 18814), (112, 18877), (124, 18919), (145, 18997), (156, 19045), (161, 19069), (164, 19087), (165, 19093),

Gene: Holeinone_27 Start: 20832, Stop: 21260, Start Num: 49

Candidate Starts for Holeinone_27:

(40, 20805), (Start: 49 @20832 has 256 MA's), (Start: 58 @20847 has 16 MA's), (87, 20964), (88, 20970), (93, 20997), (105, 21018), (112, 21036), (145, 21156), (146, 21162), (160, 21225), (165, 21252),

Gene: Horchata_25 Start: 18661, Stop: 19083, Start Num: 49

Candidate Starts for Horchata_25:

(31, 18595), (Start: 49 @18661 has 256 MA's), (86, 18784), (87, 18790), (88, 18796), (112, 18859), (124, 18901), (145, 18979), (156, 19027), (161, 19051), (164, 19069), (165, 19075),

Gene: Hosp_019 Start: 16062, Stop: 16475, Start Num: 48

Candidate Starts for Hosp_019:

(Start: 48 @16062 has 66 MA's), (79, 16152), (99, 16230), (112, 16257), (124, 16299), (142, 16374),

Gene: Hydro_23 Start: 19336, Stop: 19749, Start Num: 54

Candidate Starts for Hydro_23:

(Start: 54 @19336 has 26 MA's), (86, 19450), (87, 19456), (88, 19462), (99, 19498), (116, 19537), (118, 19549), (124, 19567), (145, 19645), (156, 19693), (160, 19714), (161, 19717), (165, 19741),

Gene: ImtiyazSitla_24 Start: 18226, Stop: 18648, Start Num: 48

Candidate Starts for ImtiyazSitla_24:

(Start: 48 @18226 has 66 MA's), (86, 18349), (87, 18355), (88, 18361), (112, 18424), (124, 18466), (145, 18544), (156, 18592), (161, 18616), (164, 18634), (165, 18640),

Gene: Imvubu_19 Start: 16429, Stop: 16845, Start Num: 52

Candidate Starts for Imvubu_19:

(Start: 52 @16429 has 27 MA's), (Start: 58 @16438 has 16 MA's), (87, 16552), (116, 16633), (136, 16723), (164, 16831), (165, 16837),

Gene: Inchworm_25 Start: 18668, Stop: 19090, Start Num: 49

Candidate Starts for Inchworm_25:

(31, 18602), (Start: 49 @18668 has 256 MA's), (86, 18791), (87, 18797), (88, 18803), (112, 18866), (124, 18908), (145, 18986), (156, 19034), (161, 19058), (164, 19076), (165, 19082),

Gene: Indlovu_23 Start: 19044, Stop: 19460, Start Num: 48

Candidate Starts for Indlovu_23:

(Start: 48 @19044 has 66 MA's), (99, 19212), (124, 19281), (145, 19359), (160, 19428), (161, 19431),

Gene: Inspectinfecti_29 Start: 21832, Stop: 22263, Start Num: 61

Candidate Starts for Inspectinfecti_29:

(10, 21604), (13, 21640), (45, 21805), (Start: 61 @21832 has 101 MA's), (82, 21916), (113, 22012), (131, 22093), (134, 22099), (137, 22111), (155, 22171), (160, 22195), (169, 22234), (170, 22237),

Gene: Inverness_25 Start: 18682, Stop: 19104, Start Num: 49

Candidate Starts for Inverness_25:

(31, 18616), (Start: 49 @18682 has 256 MA's), (86, 18805), (87, 18811), (88, 18817), (112, 18880), (124, 18922), (145, 19000), (156, 19048), (161, 19072), (164, 19090), (165, 19096),

Gene: Iridessa_25 Start: 18368, Stop: 18790, Start Num: 48

Candidate Starts for Iridessa_25:

(Start: 48 @18368 has 66 MA's), (76, 18440), (86, 18491), (87, 18497), (88, 18503), (112, 18566), (124, 18608), (145, 18686), (156, 18734), (161, 18758), (164, 18776), (165, 18782),

Gene: Iridoclysis_25 Start: 18656, Stop: 19078, Start Num: 49

Candidate Starts for Iridoclysis_25:

(31, 18590), (Start: 49 @18656 has 256 MA's), (86, 18779), (87, 18785), (88, 18791), (112, 18854), (124, 18896), (145, 18974), (156, 19022), (161, 19046), (164, 19064), (165, 19070),

Gene: IsaacEli_25 Start: 18686, Stop: 19108, Start Num: 49

Candidate Starts for IsaacEli_25:

(31, 18620), (Start: 49 @18686 has 256 MA's), (86, 18809), (87, 18815), (88, 18821), (112, 18884), (124, 18926), (135, 18977), (145, 19004), (156, 19052), (161, 19076), (164, 19094), (165, 19100),

Gene: ItsyBitsy1_27 Start: 20825, Stop: 21253, Start Num: 49

Candidate Starts for ItsyBitsy1_27:

(40, 20798), (Start: 49 @20825 has 256 MA's), (Start: 58 @20840 has 16 MA's), (87, 20957), (88, 20963), (93, 20990), (105, 21011), (112, 21029), (145, 21149), (146, 21155), (160, 21218), (165, 21245),

Gene: JAMaL_23 Start: 19500, Stop: 19913, Start Num: 54

Candidate Starts for JAMaL_23:

(Start: 54 @19500 has 26 MA's), (67, 19539), (88, 19626), (112, 19689), (116, 19701), (124, 19731), (165, 19905),

Gene: JDog_24 Start: 18392, Stop: 18814, Start Num: 48

Candidate Starts for JDog_24:

(Start: 48 @18392 has 66 MA's), (86, 18515), (87, 18521), (88, 18527), (112, 18590), (124, 18632), (145, 18710), (156, 18758), (161, 18782), (164, 18800), (165, 18806),

Gene: JKSyngboy_27 Start: 22410, Stop: 22844, Start Num: 52

Candidate Starts for JKSyngboy_27:

(Start: 52 @22410 has 27 MA's), (77, 22464), (82, 22494), (88, 22524), (104, 22569), (131, 22671), (140, 22692), (158, 22764), (170, 22815),

Gene: Jabberwocky_28 Start: 23780, Stop: 24214, Start Num: 61

Candidate Starts for Jabberwocky_28:

(43, 23750), (Start: 61 @23780 has 101 MA's), (82, 23864), (104, 23939), (114, 23963), (131, 24041), (140, 24062), (158, 24134), (170, 24185),

Gene: JacAttac_25 Start: 18668, Stop: 19090, Start Num: 49

Candidate Starts for JacAttac_25:

(31, 18602), (Start: 49 @18668 has 256 MA's), (86, 18791), (87, 18797), (88, 18803), (112, 18866), (124, 18908), (145, 18986), (156, 19034), (161, 19058), (164, 19076), (165, 19082),

Gene: JaguarMi_23 Start: 18798, Stop: 19211, Start Num: 54

Candidate Starts for JaguarMi_23:

(Start: 54 @18798 has 26 MA's), (86, 18912), (87, 18918), (88, 18924), (99, 18960), (116, 18999), (118, 19011), (124, 19029), (145, 19107), (160, 19176), (161, 19179), (165, 19203),

Gene: JakeO_24 Start: 18392, Stop: 18814, Start Num: 48

Candidate Starts for JakeO_24:

(Start: 48 @18392 has 66 MA's), (86, 18515), (87, 18521), (88, 18527), (112, 18590), (124, 18632), (145, 18710), (156, 18758), (161, 18782), (164, 18800), (165, 18806),

Gene: Jambalaya_26 Start: 17351, Stop: 17794, Start Num: 61

Candidate Starts for Jambalaya_26:

(Start: 61 @17351 has 101 MA's), (131, 17612), (170, 17768),

Gene: JangoPhett_25 Start: 18666, Stop: 19088, Start Num: 49

Candidate Starts for JangoPhett_25:

(31, 18600), (Start: 49 @18666 has 256 MA's), (86, 18789), (87, 18795), (88, 18801), (112, 18864), (124, 18906), (145, 18984), (156, 19032), (161, 19056), (164, 19074), (165, 19080),

Gene: Jeon_19 Start: 18215, Stop: 18625, Start Num: 55

Candidate Starts for Jeon_19:

(Start: 55 @18215 has 8 MA's), (78, 18290), (87, 18335), (88, 18341), (102, 18383), (112, 18407), (117, 18428), (142, 18530), (156, 18575),

Gene: Jesabah_25 Start: 18394, Stop: 18816, Start Num: 49

Candidate Starts for Jesabah_25:

(31, 18328), (Start: 49 @18394 has 256 MA's), (86, 18517), (87, 18523), (88, 18529), (112, 18592), (124, 18634), (145, 18712), (156, 18760), (161, 18784), (164, 18802), (165, 18808),

Gene: Jillium_24 Start: 18392, Stop: 18814, Start Num: 49

Candidate Starts for Jillium_24:

(31, 18326), (Start: 49 @18392 has 256 MA's), (86, 18515), (87, 18521), (88, 18527), (112, 18590), (124, 18632), (145, 18710), (156, 18758), (161, 18782), (164, 18800), (165, 18806),

Gene: Jiminy_24 Start: 18230, Stop: 18652, Start Num: 48

Candidate Starts for Jiminy_24:

(Start: 48 @18230 has 66 MA's), (86, 18353), (87, 18359), (88, 18365), (112, 18428), (124, 18470), (145, 18548), (156, 18596), (161, 18620), (164, 18638), (165, 18644),

Gene: Jiraiya_24 Start: 18390, Stop: 18812, Start Num: 49

Candidate Starts for Jiraiya_24:

(31, 18324), (Start: 49 @18390 has 256 MA's), (86, 18513), (87, 18519), (88, 18525), (112, 18588), (124, 18630), (145, 18708), (156, 18756), (161, 18780), (164, 18798), (165, 18804),

Gene: Jolie1_021 Start: 17832, Stop: 18245, Start Num: 48

Candidate Starts for Jolie1_021:

(Start: 48 @17832 has 66 MA's), (99, 18000), (104, 18009), (112, 18027), (142, 18144),

Gene: Jollymon_53 Start: 29535, Stop: 29960, Start Num: 49

Candidate Starts for Jollymon_53:

(Start: 49 @29535 has 256 MA's), (108, 29733), (127, 29805), (143, 29859), (150, 29874),

Gene: JoyceMaria_23 Start: 19337, Stop: 19750, Start Num: 54

Candidate Starts for JoyceMaria_23:

(Start: 54 @19337 has 26 MA's), (86, 19451), (87, 19457), (88, 19463), (99, 19499), (116, 19538), (118, 19550), (124, 19568), (145, 19646), (160, 19715), (161, 19718), (165, 19742),

Gene: KLUcky39_25 Start: 18674, Stop: 19096, Start Num: 49

Candidate Starts for KLUcky39_25:

(31, 18608), (Start: 49 @18674 has 256 MA's), (86, 18797), (87, 18803), (88, 18809), (112, 18872), (124, 18914), (145, 18992), (156, 19040), (161, 19064), (164, 19082), (165, 19088),

Gene: Kahve_24 Start: 18396, Stop: 18818, Start Num: 49

Candidate Starts for Kahve_24:

(31, 18330), (Start: 49 @18396 has 256 MA's), (86, 18519), (87, 18525), (88, 18531), (112, 18594), (124, 18636), (135, 18687), (145, 18714), (156, 18762), (161, 18786), (164, 18804), (165, 18810),

Gene: Kailash_25 Start: 18704, Stop: 19126, Start Num: 48

Candidate Starts for Kailash_25:

(Start: 48 @18704 has 66 MA's), (76, 18776), (86, 18827), (87, 18833), (88, 18839), (112, 18902), (124, 18944), (145, 19022), (156, 19070), (161, 19094), (164, 19112), (165, 19118),

Gene: Kaleb_27 Start: 20951, Stop: 21379, Start Num: 49

Candidate Starts for Kaleb_27:

(40, 20924), (Start: 49 @20951 has 256 MA's), (Start: 58 @20966 has 16 MA's), (87, 21083), (88, 21089), (93, 21116), (105, 21137), (112, 21155), (145, 21275), (146, 21281), (160, 21344), (165, 21371),

Gene: Kamashten_29 Start: 23229, Stop: 23663, Start Num: 61

Candidate Starts for Kamashten_29:

(43, 23199), (Start: 61 @23229 has 101 MA's), (82, 23313), (104, 23388), (114, 23412), (131, 23490), (140, 23511), (158, 23583), (170, 23634),

Gene: KarasumaRum_27 Start: 19514, Stop: 19930, Start Num: 52

Candidate Starts for KarasumaRum_27:

(Start: 52 @19514 has 27 MA's), (112, 19706), (135, 19799), (166, 19925),

Gene: Katniss_25 Start: 18694, Stop: 19116, Start Num: 49

Candidate Starts for Katniss_25:

(31, 18628), (Start: 49 @18694 has 256 MA's), (86, 18817), (87, 18823), (88, 18829), (112, 18892), (124, 18934), (145, 19012), (156, 19060), (161, 19084), (164, 19102), (165, 19108),

Gene: KayaCho_21 Start: 17836, Stop: 18249, Start Num: 48

Candidate Starts for KayaCho_21:

(Start: 48 @17836 has 66 MA's), (88, 17968), (99, 18004), (112, 18031), (124, 18073), (142, 18148), (145, 18151),

Gene: Keitabear_30 Start: 24585, Stop: 25019, Start Num: 61

Candidate Starts for Keitabear_30:

(43, 24555), (Start: 61 @24585 has 101 MA's), (82, 24669), (104, 24744), (114, 24768), (131, 24846), (140, 24867), (158, 24939), (170, 24990),

Gene: Keitherie_25 Start: 18714, Stop: 19136, Start Num: 48

Candidate Starts for Keitherie_25:

(Start: 48 @18714 has 66 MA's), (76, 18786), (86, 18837), (87, 18843), (88, 18849), (112, 18912), (124, 18954), (145, 19032), (156, 19080), (161, 19104), (164, 19122), (165, 19128),

Gene: Kewpiedoll_29 Start: 22426, Stop: 22860, Start Num: 61

Candidate Starts for Kewpiedoll_29:

(43, 22396), (Start: 61 @22426 has 101 MA's), (82, 22510), (104, 22585), (114, 22609), (131, 22687), (140, 22708), (158, 22780), (170, 22831),

Gene: Khan1_25 Start: 18410, Stop: 18832, Start Num: 48

Candidate Starts for Khan1_25:

(Start: 48 @18410 has 66 MA's), (76, 18482), (86, 18533), (87, 18539), (88, 18545), (112, 18608), (124, 18650), (145, 18728), (156, 18776), (161, 18800), (164, 18818), (165, 18824),

Gene: Kheth_27 Start: 20837, Stop: 21265, Start Num: 49

Candidate Starts for Kheth_27:

(40, 20810), (Start: 49 @20837 has 256 MA's), (Start: 58 @20852 has 16 MA's), (87, 20969), (88, 20975), (93, 21002), (105, 21023), (112, 21041), (145, 21161), (146, 21167), (160, 21230), (165, 21257),

Gene: Kikipoo_25 Start: 18686, Stop: 19108, Start Num: 49

Candidate Starts for Kikipoo_25:

(31, 18620), (Start: 49 @18686 has 256 MA's), (86, 18809), (87, 18815), (88, 18821), (112, 18884), (124, 18926), (135, 18977), (145, 19004), (156, 19052), (161, 19076), (164, 19094), (165, 19100),

Gene: KimJongPhill_18 Start: 13783, Stop: 14178, Start Num: 63

Candidate Starts for KimJongPhill_18:

(32, 13690), (Start: 63 @13783 has 2 MA's), (69, 13807), (71, 13813), (83, 13861), (102, 13930), (124, 13990), (130, 14029), (165, 14164), (168, 14173),

Gene: Kimbrough_25 Start: 18388, Stop: 18810, Start Num: 49

Candidate Starts for Kimbrough_25:

(31, 18322), (Start: 49 @18388 has 256 MA's), (86, 18511), (87, 18517), (88, 18523), (112, 18586), (124, 18628), (145, 18706), (156, 18754), (161, 18778), (164, 18796), (165, 18802),

Gene: KimmyK_28 Start: 18286, Stop: 18729, Start Num: 61

Candidate Starts for KimmyK_28:

(Start: 61 @18286 has 101 MA's), (131, 18547), (170, 18703),

Gene: KingVeVeVe_25 Start: 18665, Stop: 19087, Start Num: 49

Candidate Starts for KingVeVeVe_25:

(31, 18599), (Start: 49 @18665 has 256 MA's), (86, 18788), (87, 18794), (88, 18800), (112, 18863), (124, 18905), (145, 18983), (156, 19031), (161, 19055), (164, 19073), (165, 19079),

Gene: KingstonB_54 Start: 29013, Stop: 29438, Start Num: 49

Candidate Starts for KingstonB_54:

(Start: 49 @29013 has 256 MA's), (108, 29211), (127, 29283), (143, 29337), (150, 29352),

Gene: KlimbOn_25 Start: 18674, Stop: 19096, Start Num: 49

Candidate Starts for KlimbOn_25:

(31, 18608), (Start: 49 @18674 has 256 MA's), (86, 18797), (87, 18803), (88, 18809), (112, 18872), (124, 18914), (145, 18992), (156, 19040), (161, 19064), (164, 19082), (165, 19088),

Gene: Kloppinator_25 Start: 18694, Stop: 19116, Start Num: 49

Candidate Starts for Kloppinator_25:

(31, 18628), (Start: 49 @18694 has 256 MA's), (86, 18817), (87, 18823), (88, 18829), (112, 18892), (124, 18934), (145, 19012), (156, 19060), (161, 19084), (164, 19102), (165, 19108),

Gene: Klocker_27 Start: 21795, Stop: 22214, Start Num: 52

Candidate Starts for Klocker_27:

(Start: 52 @21795 has 27 MA's), (88, 21924), (99, 21960), (118, 22011), (124, 22029), (135, 22080), (145, 22107), (151, 22122), (161, 22179), (164, 22197), (165, 22203),

Gene: Kolhan_27 Start: 20834, Stop: 21262, Start Num: 49

Candidate Starts for Kolhan_27:

(40, 20807), (Start: 49 @20834 has 256 MA's), (Start: 58 @20849 has 16 MA's), (87, 20966), (88, 20972), (93, 20999), (105, 21020), (112, 21038), (145, 21158), (146, 21164), (160, 21227), (165, 21254),

Gene: Kroos_30 Start: 22606, Stop: 23040, Start Num: 61

Candidate Starts for Kroos_30:

(Start: 54 @22597 has 26 MA's), (Start: 61 @22606 has 101 MA's), (82, 22690), (104, 22765), (131, 22867), (140, 22888), (155, 22945), (158, 22960), (170, 23011),

Gene: Kwadwo_24 Start: 18378, Stop: 18800, Start Num: 49

Candidate Starts for Kwadwo_24:

(31, 18312), (Start: 49 @18378 has 256 MA's), (86, 18501), (87, 18507), (88, 18513), (112, 18576), (124, 18618), (145, 18696), (156, 18744), (161, 18768), (164, 18786), (165, 18792),

Gene: Kwekel_27 Start: 19551, Stop: 19982, Start Num: 61

Candidate Starts for Kwekel_27:

(Start: 61 @19551 has 101 MA's), (82, 19635), (104, 19710), (113, 19731), (137, 19830), (144, 19845), (158, 19905), (169, 19953), (170, 19956), (171, 19965),

Gene: Kwksand96_24 Start: 18240, Stop: 18662, Start Num: 48

Candidate Starts for Kwksand96_24:

(Start: 48 @18240 has 66 MA's), (86, 18363), (87, 18369), (88, 18375), (112, 18438), (124, 18480), (145, 18558), (156, 18606), (161, 18630), (164, 18648), (165, 18654),

Gene: Kwobi_31 Start: 22592, Stop: 23026, Start Num: 61

Candidate Starts for Kwobi_31:

(Start: 54 @22583 has 26 MA's), (Start: 61 @22592 has 101 MA's), (82, 22676), (104, 22751), (131, 22853), (140, 22874), (155, 22931), (158, 22946), (170, 22997),

Gene: Labeouficaum_24 Start: 18236, Stop: 18658, Start Num: 48

Candidate Starts for Labeouficaum_24:

(Start: 48 @18236 has 66 MA's), (86, 18359), (87, 18365), (88, 18371), (112, 18434), (124, 18476), (145, 18554), (156, 18602), (161, 18626), (164, 18644), (165, 18650),

Gene: Lambano_22 Start: 18304, Stop: 18717, Start Num: 54

Candidate Starts for Lambano_22:

(Start: 54 @18304 has 26 MA's), (86, 18418), (87, 18424), (88, 18430), (99, 18466), (112, 18493), (116, 18505), (118, 18517), (124, 18535), (145, 18613), (160, 18682), (165, 18709),

Gene: Lars_27 Start: 20954, Stop: 21382, Start Num: 49

Candidate Starts for Lars_27:

(40, 20927), (Start: 49 @20954 has 256 MA's), (Start: 58 @20969 has 16 MA's), (87, 21086), (88, 21092), (93, 21119), (105, 21140), (112, 21158), (145, 21278), (146, 21284), (160, 21347), (165, 21374),

Gene: Larson_26 Start: 18712, Stop: 19134, Start Num: 48

Candidate Starts for Larson_26:

(Start: 48 @18712 has 66 MA's), (76, 18784), (86, 18835), (87, 18841), (88, 18847), (112, 18910), (124, 18952), (145, 19030), (156, 19078), (161, 19102), (164, 19120), (165, 19126),

Gene: LasagnaCat_25 Start: 18680, Stop: 19102, Start Num: 49

Candidate Starts for LasagnaCat_25:

(26, 18590), (31, 18614), (Start: 49 @18680 has 256 MA's), (86, 18803), (87, 18809), (88, 18815), (112, 18878), (124, 18920), (145, 18998), (156, 19046), (161, 19070), (164, 19088), (165, 19094),

Gene: Lasso_25 Start: 18653, Stop: 19075, Start Num: 49

Candidate Starts for Lasso_25:

(31, 18587), (Start: 49 @18653 has 256 MA's), (86, 18776), (87, 18782), (88, 18788), (112, 18851), (124, 18893), (135, 18944), (145, 18971), (156, 19019), (161, 19043), (164, 19061), (165, 19067),

Gene: Laurie_27 Start: 20832, Stop: 21260, Start Num: 49

Candidate Starts for Laurie_27:

(40, 20805), (Start: 49 @20832 has 256 MA's), (Start: 58 @20847 has 16 MA's), (87, 20964), (88, 20970), (93, 20997), (105, 21018), (112, 21036), (124, 21078), (145, 21156), (146, 21162), (160, 21225), (165, 21252),

Gene: LeeLot_25 Start: 18678, Stop: 19100, Start Num: 49

Candidate Starts for LeeLot_25:

(31, 18612), (Start: 49 @18678 has 256 MA's), (86, 18801), (87, 18807), (88, 18813), (112, 18876), (124, 18918), (145, 18996), (156, 19044), (161, 19068), (164, 19086), (165, 19092),

Gene: Lego3393_25 Start: 18690, Stop: 19112, Start Num: 49

Candidate Starts for Lego3393_25:

(31, 18624), (Start: 49 @18690 has 256 MA's), (86, 18813), (87, 18819), (88, 18825), (112, 18888), (124, 18930), (145, 19008), (156, 19056), (161, 19080), (164, 19098), (165, 19104),

Gene: Legolas_24 Start: 18394, Stop: 18816, Start Num: 49

Candidate Starts for Legolas_24:

(31, 18328), (Start: 49 @18394 has 256 MA's), (86, 18517), (87, 18523), (88, 18529), (112, 18592), (124, 18634), (145, 18712), (156, 18760), (161, 18784), (164, 18802), (165, 18808),

Gene: Lehmann_25 Start: 18220, Stop: 18642, Start Num: 49

Candidate Starts for Lehmann_25:

(31, 18154), (Start: 49 @18220 has 256 MA's), (86, 18343), (87, 18349), (88, 18355), (112, 18418), (124, 18460), (145, 18538), (156, 18586), (161, 18610), (164, 18628), (165, 18634),

Gene: LeiMonet_25 Start: 18385, Stop: 18807, Start Num: 49

Candidate Starts for LeiMonet_25:

(31, 18319), (Start: 49 @18385 has 256 MA's), (86, 18508), (87, 18514), (88, 18520), (112, 18583), (124, 18625), (135, 18676), (145, 18703), (156, 18751), (161, 18775), (164, 18793), (165, 18799),

Gene: LemonSlice_25 Start: 18385, Stop: 18807, Start Num: 49

Candidate Starts for LemonSlice_25:

(31, 18319), (Start: 49 @18385 has 256 MA's), (86, 18508), (87, 18514), (88, 18520), (112, 18583), (124, 18625), (145, 18703), (156, 18751), (161, 18775), (164, 18793), (165, 18799),

Gene: Lennon_30 Start: 24387, Stop: 24821, Start Num: 61

Candidate Starts for Lennon_30:

(43, 24357), (Start: 61 @24387 has 101 MA's), (82, 24471), (104, 24546), (131, 24648), (140, 24669), (158, 24741), (170, 24792),

Gene: LeoJr_87 Start: 52158, Stop: 52538, Start Num: 58

Candidate Starts for LeoJr_87:

(Start: 58 @52158 has 16 MA's), (Start: 61 @52167 has 101 MA's), (67, 52194), (107, 52335), (122, 52380), (128, 52413), (151, 52476),

Gene: Leonard_28 Start: 21406, Stop: 21837, Start Num: 61

Candidate Starts for Leonard_28:

(10, 21178), (13, 21214), (45, 21379), (Start: 49 @21382 has 256 MA's), (Start: 61 @21406 has 101 MA's), (82, 21490), (113, 21586), (131, 21667), (134, 21673), (137, 21685), (155, 21745), (160, 21769), (169, 21808), (170, 21811),

Gene: Lephleur_27 Start: 20837, Stop: 21265, Start Num: 49

Candidate Starts for Lephleur_27:

(40, 20810), (Start: 49 @20837 has 256 MA's), (Start: 58 @20852 has 16 MA's), (87, 20969), (88, 20975), (93, 21002), (105, 21023), (112, 21041), (145, 21161), (146, 21167), (160, 21230), (165, 21257),

Gene: Ligma_22 Start: 17225, Stop: 17635, Start Num: 50

Candidate Starts for Ligma_22:

(Start: 50 @17225 has 22 MA's), (78, 17306), (86, 17345), (88, 17357), (102, 17399), (105, 17405), (112, 17423), (133, 17513),

Gene: LilHam_27 Start: 21186, Stop: 21620, Start Num: 61

Candidate Starts for LilHam_27:

(Start: 54 @21177 has 26 MA's), (Start: 61 @21186 has 101 MA's), (82, 21270), (104, 21345), (131, 21447), (140, 21468), (155, 21525), (158, 21540), (170, 21591),

Gene: LilMcDreamy_22 Start: 19306, Stop: 19722, Start Num: 52

Candidate Starts for LilMcDreamy_22:

(Start: 52 @19306 has 27 MA's), (79, 19393), (87, 19429), (88, 19435), (128, 19570), (145, 19618),

Gene: LilSmirk_27 Start: 20834, Stop: 21262, Start Num: 49

Candidate Starts for LilSmirk_27:

(40, 20807), (Start: 49 @20834 has 256 MA's), (Start: 58 @20849 has 16 MA's), (87, 20966), (88, 20972), (93, 20999), (105, 21020), (112, 21038), (145, 21158), (146, 21164), (160, 21227), (165, 21254),

Gene: Lilbeanie_25 Start: 16498, Stop: 16914, Start Num: 60

Candidate Starts for Lilbeanie_25:

(Start: 60 @16498 has 1 MA's), (82, 16585), (144, 16795), (170, 16888),

Gene: LittleDigger_22 Start: 18311, Stop: 18724, Start Num: 54

Candidate Starts for LittleDigger_22:

(Start: 54 @18311 has 26 MA's), (86, 18425), (87, 18431), (88, 18437), (99, 18473), (116, 18512), (118, 18524), (124, 18542), (145, 18620), (160, 18689), (165, 18716),

Gene: LittleMinkey_30 Start: 19265, Stop: 19681, Start Num: 52

Candidate Starts for LittleMinkey_30:

(Start: 52 @19265 has 27 MA's), (92, 19418), (93, 19421), (145, 19577), (151, 19592), (165, 19673),

Gene: LittleMunchkin_24 Start: 20052, Stop: 20465, Start Num: 50

Candidate Starts for LittleMunchkin_24:

(Start: 50 @20052 has 22 MA's), (76, 20121), (78, 20133), (88, 20184), (105, 20232), (145, 20370), (160, 20439),

Gene: LizLemon_27 Start: 20954, Stop: 21382, Start Num: 49

Candidate Starts for LizLemon_27:

(40, 20927), (Start: 49 @20954 has 256 MA's), (Start: 58 @20969 has 16 MA's), (87, 21086), (88, 21092), (93, 21119), (105, 21140), (112, 21158), (145, 21278), (146, 21284), (160, 21347), (165, 21374),

Gene: Lolalove_23 Start: 19333, Stop: 19746, Start Num: 54

Candidate Starts for Lolalove_23:

(Start: 54 @19333 has 26 MA's), (86, 19447), (87, 19453), (88, 19459), (99, 19495), (116, 19534), (118, 19546), (124, 19564), (145, 19642), (156, 19690), (160, 19711), (161, 19714), (165, 19738),

Gene: Longacauda_24 Start: 18380, Stop: 18802, Start Num: 48

Candidate Starts for Longacauda_24:

(Start: 48 @18380 has 66 MA's), (86, 18503), (87, 18509), (88, 18515), (112, 18578), (124, 18620), (145, 18698), (156, 18746), (161, 18770), (164, 18788), (165, 18794),

Gene: Lopsy_24 Start: 18236, Stop: 18658, Start Num: 49

Candidate Starts for Lopsy_24:

(31, 18170), (Start: 49 @18236 has 256 MA's), (86, 18359), (87, 18365), (88, 18371), (112, 18434), (124, 18476), (145, 18554), (156, 18602), (161, 18626), (164, 18644), (165, 18650),

Gene: LostAndPhound_24 Start: 18387, Stop: 18809, Start Num: 49

Candidate Starts for LostAndPhound_24:

(31, 18321), (Start: 49 @18387 has 256 MA's), (86, 18510), (87, 18516), (88, 18522), (112, 18585), (124, 18627), (135, 18678), (145, 18705), (156, 18753), (161, 18777), (164, 18795), (165, 18801),

Gene: Love_33 Start: 24151, Stop: 24585, Start Num: 61

Candidate Starts for Love_33:

(43, 24121), (Start: 61 @24151 has 101 MA's), (82, 24235), (104, 24310), (114, 24334), (131, 24412), (158, 24505), (170, 24556),

Gene: LuckyMarjie_24 Start: 18400, Stop: 18822, Start Num: 49

Candidate Starts for LuckyMarjie_24:

(31, 18334), (Start: 49 @18400 has 256 MA's), (86, 18523), (87, 18529), (88, 18535), (112, 18598), (124, 18640), (145, 18718), (156, 18766), (161, 18790), (164, 18808), (165, 18814),

Gene: Lulumae_24 Start: 18378, Stop: 18800, Start Num: 49

Candidate Starts for Lulumae_24:

(31, 18312), (Start: 49 @18378 has 256 MA's), (86, 18501), (87, 18507), (88, 18513), (112, 18576), (124, 18618), (145, 18696), (156, 18744), (161, 18768), (164, 18786), (165, 18792),

Gene: Lulwa_25 Start: 18665, Stop: 19087, Start Num: 49

Candidate Starts for Lulwa_25:

(31, 18599), (Start: 49 @18665 has 256 MA's), (86, 18788), (87, 18794), (88, 18800), (112, 18863), (124, 18905), (145, 18983), (156, 19031), (161, 19055), (164, 19073), (165, 19079),

Gene: Lumine_24 Start: 18374, Stop: 18796, Start Num: 49

Candidate Starts for Lumine_24:

(31, 18308), (Start: 49 @18374 has 256 MA's), (86, 18497), (87, 18503), (88, 18509), (112, 18572), (124, 18614), (145, 18692), (156, 18740), (161, 18764), (164, 18782), (165, 18788),

Gene: MRabcd_24 Start: 18379, Stop: 18801, Start Num: 49

Candidate Starts for MRabcd_24:

(31, 18313), (Start: 49 @18379 has 256 MA's), (86, 18502), (87, 18508), (88, 18514), (112, 18577), (124, 18619), (135, 18670), (145, 18697), (156, 18745), (161, 18769), (164, 18787), (165, 18793),

Gene: Mag7_24 Start: 18254, Stop: 18676, Start Num: 48

Candidate Starts for Mag7_24:

(Start: 48 @18254 has 66 MA's), (76, 18326), (86, 18377), (87, 18383), (88, 18389), (112, 18452), (124, 18494), (145, 18572), (156, 18620), (161, 18644), (164, 18662), (165, 18668),

Gene: Magic8_25 Start: 18692, Stop: 19114, Start Num: 48

Candidate Starts for Magic8_25:

(Start: 48 @18692 has 66 MA's), (76, 18764), (86, 18815), (87, 18821), (88, 18827), (112, 18890), (124, 18932), (145, 19010), (156, 19058), (161, 19082), (164, 19100), (165, 19106),

Gene: Magpie_22 Start: 19156, Stop: 19569, Start Num: 54

Candidate Starts for Magpie_22:

(Start: 54 @19156 has 26 MA's), (86, 19270), (87, 19276), (88, 19282), (99, 19318), (116, 19357), (118, 19369), (124, 19387), (145, 19465), (160, 19534), (161, 19537), (165, 19561),

Gene: Maih_19 Start: 19234, Stop: 19614, Start Num: 58

Candidate Starts for Maih_19:

(6, 18784), (15, 19066), (Start: 58 @19234 has 16 MA's), (62, 19249), (75, 19291), (85, 19336), (116, 19426), (124, 19456), (133, 19507), (138, 19522), (149, 19549), (151, 19552),

Gene: Makar_54 Start: 29466, Stop: 29900, Start Num: 49

Candidate Starts for Makar_54:

(Start: 49 @29466 has 256 MA's), (74, 29538), (78, 29553), (86, 29592), (108, 29664), (112, 29670), (124, 29712), (127, 29736), (132, 29760), (143, 29790), (150, 29805),

Gene: MakoManhole_24 Start: 18622, Stop: 19032, Start Num: 50

Candidate Starts for MakoManhole_24:

(Start: 50 @18622 has 22 MA's), (94, 18784), (102, 18796), (124, 18862), (127, 18886), (138, 18925), (145, 18940),

Gene: Mana_24 Start: 18381, Stop: 18803, Start Num: 49

Candidate Starts for Mana_24:

(31, 18315), (Start: 49 @18381 has 256 MA's), (86, 18504), (87, 18510), (88, 18516), (112, 18579), (124, 18621), (135, 18672), (145, 18699), (156, 18747), (161, 18771), (164, 18789), (165, 18795),

Gene: Manad_24 Start: 18231, Stop: 18653, Start Num: 49

Candidate Starts for Manad_24:

(31, 18165), (Start: 49 @18231 has 256 MA's), (86, 18354), (87, 18360), (88, 18366), (112, 18429), (124, 18471), (145, 18549), (156, 18597), (161, 18621), (164, 18639), (165, 18645),

Gene: Mao1_21 Start: 16621, Stop: 17025, Start Num: 53

Candidate Starts for Mao1_21:

(Start: 53 @16621 has 4 MA's), (78, 16699), (87, 16744), (88, 16750), (104, 16795), (112, 16816), (124, 16858), (127, 16882), (135, 16909), (138, 16921), (159, 16999),

Gene: Mareelih_94 Start: 51401, Stop: 51808, Start Num: 58

Candidate Starts for Mareelih_94:

(Start: 57 @51398 has 4 MA's), (Start: 58 @51401 has 16 MA's), (67, 51437), (80, 51491), (86, 51512), (119, 51614), (123, 51626), (126, 51668), (127, 51677), (135, 51704), (151, 51746), (156, 51779), (158, 51791), (160, 51800),

Gene: Mariokart_22 Start: 17119, Stop: 17532, Start Num: 50

Candidate Starts for Mariokart_22:

(1, 16399), (2, 16444), (3, 16510), (4, 16582), (5, 16648), (25, 17020), (Start: 41 @17098 has 1 MA's), (Start: 50 @17119 has 22 MA's), (78, 17200), (79, 17209), (87, 17245), (88, 17251), (105, 17299), (124, 17359),

Gene: Maru_24 Start: 18380, Stop: 18802, Start Num: 49

Candidate Starts for Maru_24:

(31, 18314), (Start: 49 @18380 has 256 MA's), (86, 18503), (87, 18509), (88, 18515), (112, 18578), (124, 18620), (145, 18698), (156, 18746), (161, 18770), (164, 18788), (165, 18794),

Gene: Mask_22 Start: 16622, Stop: 17026, Start Num: 53

Candidate Starts for Mask_22:

(Start: 53 @16622 has 4 MA's), (78, 16700), (87, 16745), (88, 16751), (104, 16796), (112, 16817), (124, 16859), (127, 16883), (135, 16910), (138, 16922), (159, 17000),

Gene: Maskar_24 Start: 18226, Stop: 18648, Start Num: 48

Candidate Starts for Maskar_24:

(Start: 48 @18226 has 66 MA's), (86, 18349), (87, 18355), (88, 18361), (112, 18424), (124, 18466), (145, 18544), (156, 18592), (161, 18616), (164, 18634), (165, 18640),

Gene: MasterPo_27 Start: 20834, Stop: 21262, Start Num: 49

Candidate Starts for MasterPo_27:

(40, 20807), (Start: 49 @20834 has 256 MA's), (Start: 58 @20849 has 16 MA's), (87, 20966), (88, 20972), (93, 20999), (105, 21020), (112, 21038), (145, 21158), (146, 21164), (160, 21227), (165, 21254),

Gene: Matalotodo_25 Start: 18673, Stop: 19095, Start Num: 49

Candidate Starts for Matalotodo_25:

(31, 18607), (Start: 49 @18673 has 256 MA's), (86, 18796), (87, 18802), (88, 18808), (112, 18871), (124, 18913), (145, 18991), (156, 19039), (161, 19063), (164, 19081), (165, 19087),

Gene: McCrothy_30 Start: 23959, Stop: 24393, Start Num: 61

Candidate Starts for McCrothy_30:

(43, 23920), (Start: 61 @23959 has 101 MA's), (82, 24043), (131, 24220), (140, 24241), (158, 24313), (170, 24364),

Gene: McKinley_32 Start: 24183, Stop: 24617, Start Num: 61

Candidate Starts for McKinley_32:

(43, 24153), (Start: 61 @24183 has 101 MA's), (82, 24267), (104, 24342), (114, 24366), (131, 24444), (158, 24537), (170, 24588),

Gene: Mcshane_24 Start: 18376, Stop: 18798, Start Num: 49

Candidate Starts for Mcshane_24:

(31, 18310), (Start: 49 @18376 has 256 MA's), (86, 18499), (87, 18505), (88, 18511), (112, 18574), (124, 18616), (145, 18694), (156, 18742), (161, 18766), (164, 18784), (165, 18790),

Gene: Mecca_24 Start: 18373, Stop: 18795, Start Num: 49

Candidate Starts for Mecca_24:

(31, 18307), (Start: 49 @18373 has 256 MA's), (86, 18496), (87, 18502), (88, 18508), (112, 18571), (124, 18613), (145, 18691), (156, 18739), (161, 18763), (164, 18781), (165, 18787),

Gene: Megabear_19 Start: 18137, Stop: 18547, Start Num: 55

Candidate Starts for Megabear_19:

(Start: 55 @18137 has 8 MA's), (78, 18212), (87, 18257), (88, 18263), (102, 18305), (112, 18329), (117, 18350), (142, 18452), (156, 18497),

Gene: Megamind20_25 Start: 18394, Stop: 18816, Start Num: 49

Candidate Starts for Megamind20_25:

(31, 18328), (Start: 49 @18394 has 256 MA's), (86, 18517), (87, 18523), (88, 18529), (112, 18592), (124, 18634), (145, 18712), (156, 18760), (161, 18784), (164, 18802), (165, 18808),

Gene: Megatron_25 Start: 18677, Stop: 19099, Start Num: 49

Candidate Starts for Megatron_25:

(31, 18611), (Start: 49 @18677 has 256 MA's), (86, 18800), (87, 18806), (88, 18812), (112, 18875), (124, 18917), (135, 18968), (145, 18995), (156, 19043), (161, 19067), (164, 19085), (165, 19091),

Gene: MelBins_29 Start: 21614, Stop: 22045, Start Num: 61

Candidate Starts for MelBins_29:

(13, 21422), (45, 21587), (Start: 61 @21614 has 101 MA's), (82, 21698), (113, 21794), (131, 21875), (134, 21881), (137, 21893), (155, 21953), (160, 21977), (169, 22016), (170, 22019),

Gene: Melc17_25 Start: 18668, Stop: 19090, Start Num: 48

Candidate Starts for Melc17_25:

(Start: 48 @18668 has 66 MA's), (86, 18791), (87, 18797), (88, 18803), (112, 18866), (124, 18908), (145, 18986), (156, 19034), (161, 19058), (164, 19076), (165, 19082),

Gene: MelsMeow_24 Start: 18254, Stop: 18676, Start Num: 48

Candidate Starts for MelsMeow_24:

(Start: 48 @18254 has 66 MA's), (76, 18326), (86, 18377), (87, 18383), (88, 18389), (112, 18452), (124, 18494), (145, 18572), (156, 18620), (161, 18644), (164, 18662), (165, 18668),

Gene: Mesh1_25 Start: 18685, Stop: 19107, Start Num: 49

Candidate Starts for Mesh1_25:

(31, 18619), (Start: 49 @18685 has 256 MA's), (86, 18808), (87, 18814), (88, 18820), (112, 18883), (124, 18925), (145, 19003), (156, 19051), (161, 19075), (164, 19093), (165, 19099),

Gene: Mesmerelda_24 Start: 18379, Stop: 18801, Start Num: 49

Candidate Starts for Mesmerelda_24:

(31, 18313), (Start: 49 @18379 has 256 MA's), (86, 18502), (87, 18508), (88, 18514), (112, 18577), (124, 18619), (145, 18697), (156, 18745), (161, 18769), (164, 18787), (165, 18793),

Gene: MichaelPhcott_24 Start: 18254, Stop: 18676, Start Num: 48

Candidate Starts for MichaelPhcott_24:

(Start: 48 @18254 has 66 MA's), (76, 18326), (86, 18377), (87, 18383), (88, 18389), (112, 18452), (124, 18494), (145, 18572), (156, 18620), (161, 18644), (164, 18662), (165, 18668),

Gene: Mikota_25 Start: 18661, Stop: 19083, Start Num: 49

Candidate Starts for Mikota_25:

(31, 18595), (Start: 49 @18661 has 256 MA's), (86, 18784), (87, 18790), (88, 18796), (112, 18859), (124, 18901), (145, 18979), (156, 19027), (161, 19051), (164, 19069), (165, 19075),

Gene: Mimi_87 Start: 52768, Stop: 53151, Start Num: 57

Candidate Starts for Mimi_87:

(Start: 57 @52768 has 4 MA's), (67, 52807), (68, 52810), (89, 52909), (100, 52933), (119, 52984), (122, 52993), (135, 53047), (145, 53074), (149, 53086),

Gene: MiniBoss_25 Start: 18664, Stop: 19086, Start Num: 49

Candidate Starts for MiniBoss_25:

(31, 18598), (Start: 49 @18664 has 256 MA's), (86, 18787), (87, 18793), (88, 18799), (112, 18862), (124, 18904), (145, 18982), (156, 19030), (161, 19054), (164, 19072), (165, 19078),

Gene: Mischief19_27 Start: 29157, Stop: 29531, Start Num: 59

Candidate Starts for Mischief19_27:

(Start: 59 @29157 has 4 MA's), (85, 29256), (103, 29316), (116, 29346), (121, 29370),

Gene: MitKao_25 Start: 18382, Stop: 18804, Start Num: 49

Candidate Starts for MitKao_25:

(31, 18316), (Start: 49 @18382 has 256 MA's), (86, 18505), (87, 18511), (88, 18517), (112, 18580), (124, 18622), (145, 18700), (156, 18748), (161, 18772), (164, 18790), (165, 18796),

Gene: Mithril_23 Start: 19337, Stop: 19750, Start Num: 54

Candidate Starts for Mithril_23:

(Start: 54 @19337 has 26 MA's), (86, 19451), (87, 19457), (88, 19463), (99, 19499), (116, 19538), (118, 19550), (124, 19568), (145, 19646), (160, 19715), (161, 19718), (165, 19742),

Gene: MoontowerMania_29 Start: 22994, Stop: 23428, Start Num: 61

Candidate Starts for MoontowerMania_29:

(19, 22829), (43, 22964), (Start: 61 @22994 has 101 MA's), (82, 23078), (104, 23153), (131, 23255), (140, 23276), (158, 23348), (170, 23399),

Gene: Morgushi_25 Start: 18387, Stop: 18809, Start Num: 49

Candidate Starts for Morgushi_25:

(31, 18321), (Start: 49 @18387 has 256 MA's), (86, 18510), (87, 18516), (88, 18522), (112, 18585), (124, 18627), (145, 18705), (156, 18753), (161, 18777), (164, 18795), (165, 18801),

Gene: Morty_25 Start: 18686, Stop: 19108, Start Num: 49

Candidate Starts for Morty_25:

(31, 18620), (Start: 49 @18686 has 256 MA's), (86, 18809), (87, 18815), (88, 18821), (112, 18884), (124, 18926), (135, 18977), (145, 19004), (156, 19052), (161, 19076), (164, 19094), (165, 19100),

Gene: Mosaic_24 Start: 18388, Stop: 18810, Start Num: 49

Candidate Starts for Mosaic_24:

(31, 18322), (Start: 49 @18388 has 256 MA's), (86, 18511), (87, 18517), (88, 18523), (112, 18586), (124, 18628), (145, 18706), (156, 18754), (161, 18778), (164, 18796), (165, 18802),

Gene: MossRose_24 Start: 18601, Stop: 19011, Start Num: 50

Candidate Starts for MossRose_24:

(Start: 50 @18601 has 22 MA's), (94, 18763), (102, 18775), (124, 18841), (127, 18865), (138, 18904), (145, 18919), (161, 18991),

Gene: MrPhizzler_25 Start: 18387, Stop: 18809, Start Num: 48

Candidate Starts for MrPhizzler_25:

(Start: 48 @18387 has 66 MA's), (86, 18510), (87, 18516), (88, 18522), (112, 18585), (124, 18627), (145, 18705), (156, 18753), (161, 18777), (164, 18795), (165, 18801),

Gene: Mudslide_23 Start: 19584, Stop: 19997, Start Num: 54

Candidate Starts for Mudslide_23:

(Start: 54 @19584 has 26 MA's), (86, 19698), (87, 19704), (88, 19710), (99, 19746), (116, 19785), (118, 19797), (124, 19815), (145, 19893), (151, 19908), (160, 19962), (161, 19965), (165, 19989),

Gene: Mulan_24 Start: 18382, Stop: 18804, Start Num: 49

Candidate Starts for Mulan_24:

(31, 18316), (Start: 49 @18382 has 256 MA's), (86, 18505), (87, 18511), (88, 18517), (112, 18580), (124, 18622), (145, 18700), (156, 18748), (161, 18772), (164, 18790), (165, 18796),

Gene: Murdoc_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for Murdoc_25:

(31, 18609), (Start: 49 @18675 has 256 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: Mutante_24 Start: 18385, Stop: 18807, Start Num: 49

Candidate Starts for Mutante_24:

(31, 18319), (Start: 49 @18385 has 256 MA's), (86, 18508), (87, 18514), (88, 18520), (112, 18583), (124, 18625), (145, 18703), (156, 18751), (161, 18775), (164, 18793), (165, 18799),

Gene: Mutzi_28 Start: 18027, Stop: 18470, Start Num: 61

Candidate Starts for Mutzi_28:

(11, 17811), (Start: 61 @18027 has 101 MA's), (170, 18444),

Gene: Mysterious_25 Start: 19640, Stop: 20056, Start Num: 52

Candidate Starts for Mysterious_25:

(Start: 52 @19640 has 27 MA's), (73, 19700), (87, 19763), (88, 19769), (124, 19874), (128, 19904), (145, 19952),

Gene: Nacho_0025 Start: 18674, Stop: 19096, Start Num: 49

Candidate Starts for Nacho_0025:

(31, 18608), (Start: 49 @18674 has 256 MA's), (86, 18797), (87, 18803), (88, 18809), (112, 18872), (124, 18914), (145, 18992), (156, 19040), (161, 19064), (164, 19082), (165, 19088),

Gene: Nanao_22 Start: 18303, Stop: 18716, Start Num: 54

Candidate Starts for Nanao_22:

(Start: 54 @18303 has 26 MA's), (86, 18417), (87, 18423), (88, 18429), (99, 18465), (112, 18492), (116, 18504), (118, 18516), (124, 18534), (145, 18612), (160, 18681), (165, 18708),

Gene: Nangang_25 Start: 19342, Stop: 19758, Start Num: 52

Candidate Starts for Nangang_25:

(Start: 52 @19342 has 27 MA's), (112, 19534), (124, 19576), (135, 19627), (166, 19753),

Gene: Nathan_25 Start: 18704, Stop: 19126, Start Num: 48

Candidate Starts for Nathan_25:

(Start: 48 @18704 has 66 MA's), (76, 18776), (86, 18827), (87, 18833), (88, 18839), (112, 18902), (124, 18944), (145, 19022), (156, 19070), (161, 19094), (164, 19112), (165, 19118),

Gene: Natkenzie_30 Start: 22964, Stop: 23395, Start Num: 61

Candidate Starts for Natkenzie_30:

(35, 22904), (45, 22937), (Start: 61 @22964 has 101 MA's), (89, 23093), (104, 23123), (131, 23225), (134, 23231), (140, 23246), (155, 23303), (158, 23318), (169, 23366), (170, 23369),

Gene: Nehemiah_24 Start: 19640, Stop: 20056, Start Num: 52

Candidate Starts for Nehemiah_24:

(Start: 52 @19640 has 27 MA's), (73, 19700), (87, 19763), (88, 19769), (124, 19874), (128, 19904), (145, 19952),

Gene: Newman_25 Start: 18674, Stop: 19096, Start Num: 49

Candidate Starts for Newman_25:

(31, 18608), (Start: 49 @18674 has 256 MA's), (86, 18797), (87, 18803), (88, 18809), (112, 18872), (124, 18914), (145, 18992), (156, 19040), (161, 19064), (164, 19082), (165, 19088),

Gene: Nicole21_25 Start: 18666, Stop: 19088, Start Num: 49

Candidate Starts for Nicole21_25:

(31, 18600), (Start: 49 @18666 has 256 MA's), (86, 18789), (87, 18795), (88, 18801), (112, 18864), (124, 18906), (145, 18984), (156, 19032), (161, 19056), (164, 19074), (165, 19080),

Gene: Nigel_21 Start: 18187, Stop: 18600, Start Num: 54

Candidate Starts for Nigel_21:

(Start: 54 @18187 has 26 MA's), (88, 18313), (112, 18376), (116, 18388), (124, 18418), (165, 18592),

Gene: Nordenberg_24 Start: 22353, Stop: 22787, Start Num: 61

Candidate Starts for Nordenberg_24:

(43, 22323), (Start: 61 @22353 has 101 MA's), (82, 22437), (104, 22512), (114, 22536), (131, 22614), (158, 22707), (170, 22758),

Gene: Nubi_26 Start: 17592, Stop: 18035, Start Num: 61

Candidate Starts for Nubi_26:

(Start: 61 @17592 has 101 MA's), (131, 17853), (170, 18009),

Gene: Numberten_25 Start: 18679, Stop: 19101, Start Num: 49

Candidate Starts for Numberten_25:

(31, 18613), (Start: 49 @18679 has 256 MA's), (86, 18802), (87, 18808), (88, 18814), (112, 18877), (124, 18919), (145, 18997), (156, 19045), (161, 19069), (164, 19087), (165, 19093),

Gene: Nyala_24 Start: 18377, Stop: 18799, Start Num: 49

Candidate Starts for Nyala_24:

(31, 18311), (Start: 49 @18377 has 256 MA's), (86, 18500), (87, 18506), (88, 18512), (112, 18575), (124, 18617), (145, 18695), (156, 18743), (161, 18767), (164, 18785), (165, 18791),

Gene: OSmaximus_25 Start: 18703, Stop: 19125, Start Num: 48

Candidate Starts for OSmaximus_25:

(Start: 48 @18703 has 66 MA's), (76, 18775), (86, 18826), (87, 18832), (88, 18838), (112, 18901), (124, 18943), (145, 19021), (156, 19069), (161, 19093), (164, 19111), (165, 19117),

Gene: Olak_24 Start: 18378, Stop: 18800, Start Num: 49

Candidate Starts for Olak_24:

(31, 18312), (Start: 49 @18378 has 256 MA's), (86, 18501), (87, 18507), (88, 18513), (112, 18576), (124, 18618), (145, 18696), (156, 18744), (161, 18768), (164, 18786), (165, 18792),

Gene: Oline_24 Start: 18240, Stop: 18662, Start Num: 48

Candidate Starts for Oline_24:

(Start: 48 @18240 has 66 MA's), (86, 18363), (87, 18369), (88, 18375), (112, 18438), (124, 18480), (145, 18558), (156, 18606), (161, 18630), (164, 18648), (165, 18654),

Gene: Olive_25 Start: 18667, Stop: 19089, Start Num: 49

Candidate Starts for Olive_25:

(31, 18601), (Start: 49 @18667 has 256 MA's), (86, 18790), (87, 18796), (88, 18802), (112, 18865), (124, 18907), (145, 18985), (156, 19033), (161, 19057), (164, 19075), (165, 19081),

Gene: OliverWalter_25 Start: 18683, Stop: 19105, Start Num: 49

Candidate Starts for OliverWalter_25:

(31, 18617), (Start: 49 @18683 has 256 MA's), (86, 18806), (87, 18812), (88, 18818), (112, 18881), (124, 18923), (145, 19001), (156, 19049), (161, 19073), (164, 19091), (165, 19097),

Gene: Omniscient_25 Start: 18686, Stop: 19108, Start Num: 49

Candidate Starts for Omniscient_25:

(31, 18620), (Start: 49 @18686 has 256 MA's), (86, 18809), (87, 18815), (88, 18821), (112, 18884), (124, 18926), (145, 19004), (156, 19052), (161, 19076), (164, 19094), (165, 19100),

Gene: OnionKnight_11 Start: 8126, Stop: 8596, Start Num: 34

Candidate Starts for OnionKnight_11:

(33, 8123), (Start: 34 @8126 has 1 MA's), (69, 8231), (73, 8243), (81, 8276), (94, 8336), (114, 8375), (124, 8408), (129, 8444), (147, 8495), (154, 8528), (157, 8546),

Gene: Oosterbaan_25 Start: 18678, Stop: 19100, Start Num: 49

Candidate Starts for Oosterbaan_25:

(31, 18612), (Start: 49 @18678 has 256 MA's), (86, 18801), (87, 18807), (88, 18813), (112, 18876), (124, 18918), (135, 18969), (145, 18996), (156, 19044), (161, 19068), (164, 19086), (165, 19092),

Gene: Opia_27 Start: 20834, Stop: 21262, Start Num: 49

Candidate Starts for Opia_27:

(40, 20807), (Start: 49 @20834 has 256 MA's), (Start: 58 @20849 has 16 MA's), (87, 20966), (88, 20972), (93, 20999), (105, 21020), (112, 21038), (145, 21158), (146, 21164), (160, 21227), (165, 21254),

Gene: Orfeu_24 Start: 18379, Stop: 18801, Start Num: 49

Candidate Starts for Orfeu_24:

(31, 18313), (Start: 49 @18379 has 256 MA's), (86, 18502), (87, 18508), (88, 18514), (112, 18577), (124, 18619), (145, 18697), (156, 18745), (161, 18769), (164, 18787), (165, 18793),

Gene: Orion_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for Orion_25:

(31, 18609), (Start: 49 @18675 has 256 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (135, 18966), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: Orwigg_24 Start: 18372, Stop: 18794, Start Num: 49

Candidate Starts for Orwigg_24:

(31, 18306), (Start: 49 @18372 has 256 MA's), (86, 18495), (87, 18501), (88, 18507), (112, 18570), (124, 18612), (145, 18690), (156, 18738), (161, 18762), (164, 18780), (165, 18786),

Gene: PG1_25 Start: 18688, Stop: 19110, Start Num: 49

Candidate Starts for PG1_25:

(31, 18622), (Start: 49 @18688 has 256 MA's), (86, 18811), (87, 18817), (88, 18823), (112, 18886), (124, 18928), (135, 18979), (145, 19006), (156, 19054), (161, 19078), (164, 19096), (165, 19102),

Gene: PR_19 Start: 18164, Stop: 18574, Start Num: 55

Candidate Starts for PR_19:

(Start: 55 @18164 has 8 MA's), (78, 18239), (87, 18284), (88, 18290), (102, 18332), (112, 18356), (117, 18377), (142, 18479), (156, 18524),

Gene: Pacifista_24 Start: 18379, Stop: 18801, Start Num: 49

Candidate Starts for Pacifista_24:

(31, 18313), (Start: 49 @18379 has 256 MA's), (86, 18502), (87, 18508), (88, 18514), (112, 18577), (124, 18619), (145, 18697), (156, 18745), (161, 18769), (164, 18787), (165, 18793),

Gene: PallasAthena_25 Start: 18386, Stop: 18808, Start Num: 49

Candidate Starts for PallasAthena_25:

(31, 18320), (Start: 49 @18386 has 256 MA's), (86, 18509), (87, 18515), (88, 18521), (112, 18584), (124, 18626), (145, 18704), (156, 18752), (161, 18776), (164, 18794), (165, 18800),

Gene: Panchaali_85 Start: 49870, Stop: 50250, Start Num: 58

Candidate Starts for Panchaali_85:

(Start: 58 @49870 has 16 MA's), (Start: 61 @49879 has 101 MA's), (67, 49906), (68, 49909), (115, 50062), (122, 50092), (151, 50188),

Gene: Paries_32 Start: 23819, Stop: 24253, Start Num: 61

Candidate Starts for Paries_32:

(43, 23780), (Start: 61 @23819 has 101 MA's), (82, 23903), (104, 23978), (114, 24002), (131, 24080), (140, 24101), (158, 24173), (170, 24224),

Gene: Patbob_88 Start: 53640, Stop: 54023, Start Num: 57

Candidate Starts for Patbob_88:

(Start: 57 @53640 has 4 MA's), (67, 53679), (89, 53781), (100, 53805), (111, 53826), (119, 53856), (122, 53865), (135, 53919), (145, 53946), (149, 53958),

Gene: PauloDiaboli_94 Start: 50046, Stop: 50456, Start Num: 44

Candidate Starts for PauloDiaboli_94:

(Start: 44 @50046 has 4 MA's), (76, 50133), (77, 50136), (82, 50166), (145, 50376), (152, 50394),

Gene: PenguinLover67_27 Start: 20904, Stop: 21338, Start Num: 50

Candidate Starts for PenguinLover67_27:

(Start: 50 @20904 has 22 MA's), (74, 20970), (79, 20994), (87, 21030), (88, 21036), (99, 21072), (112, 21099), (160, 21288),

Gene: Phamished_25 Start: 18683, Stop: 19105, Start Num: 49

Candidate Starts for Phamished_25:

(31, 18617), (Start: 49 @18683 has 256 MA's), (86, 18806), (87, 18812), (88, 18818), (112, 18881), (124, 18923), (145, 19001), (156, 19049), (161, 19073), (164, 19091), (165, 19097),

Gene: Phantasmagoria_27 Start: 20830, Stop: 21258, Start Num: 49

Candidate Starts for Phantasmagoria_27:

(40, 20803), (Start: 49 @20830 has 256 MA's), (Start: 58 @20845 has 16 MA's), (87, 20962), (88, 20968), (93, 20995), (105, 21016), (112, 21034), (145, 21154), (146, 21160), (160, 21223), (165, 21250),

Gene: Phareon_25 Start: 18383, Stop: 18805, Start Num: 49

Candidate Starts for Phareon_25:

(31, 18317), (Start: 49 @18383 has 256 MA's), (86, 18506), (87, 18512), (88, 18518), (112, 18581), (124, 18623), (145, 18701), (156, 18749), (161, 18773), (164, 18791), (165, 18797),

Gene: PhatCats2014_25 Start: 18693, Stop: 19115, Start Num: 49

Candidate Starts for PhatCats2014_25:

(31, 18627), (Start: 49 @18693 has 256 MA's), (86, 18816), (87, 18822), (88, 18828), (112, 18891), (124, 18933), (145, 19011), (156, 19059), (161, 19083), (164, 19101), (165, 19107),

Gene: PhatLouie_25 Start: 18675, Stop: 19097, Start Num: 48

Candidate Starts for PhatLouie_25:

(Start: 48 @18675 has 66 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: Phauci_21 Start: 17995, Stop: 18426, Start Num: 61

Candidate Starts for Phauci_21:

(13, 17803), (45, 17968), (Start: 61 @17995 has 101 MA's), (82, 18079), (113, 18175), (131, 18256), (134, 18262), (137, 18274), (155, 18334), (160, 18358), (169, 18397), (170, 18400),

Gene: Phelemich_25 Start: 19636, Stop: 20052, Start Num: 52

Candidate Starts for Phelemich_25:

(Start: 52 @19636 has 27 MA's), (73, 19696), (87, 19759), (88, 19765), (124, 19870), (128, 19900), (145, 19948), (166, 20047),

Gene: Phendrix_82 Start: 43488, Stop: 43901, Start Num: 44

Candidate Starts for Phendrix_82:

(Start: 44 @43488 has 4 MA's), (Start: 60 @43521 has 1 MA's), (84, 43614), (88, 43638), (97, 43671), (110, 43698), (112, 43701), (128, 43773), (135, 43794), (149, 43833), (161, 43893),

Gene: PhenghisKhan_24 Start: 18254, Stop: 18676, Start Num: 48

Candidate Starts for PhenghisKhan_24:

(Start: 48 @18254 has 66 MA's), (76, 18326), (86, 18377), (87, 18383), (88, 18389), (112, 18452), (124, 18494), (145, 18572), (156, 18620), (161, 18644), (164, 18662), (165, 18668),

Gene: Pherdinand_25 Start: 18683, Stop: 19105, Start Num: 49

Candidate Starts for Pherdinand_25:

(31, 18617), (Start: 49 @18683 has 256 MA's), (86, 18806), (87, 18812), (88, 18818), (112, 18881), (124, 18923), (145, 19001), (156, 19049), (161, 19073), (164, 19091), (165, 19097),

Gene: Phergie_24 Start: 18248, Stop: 18670, Start Num: 48

Candidate Starts for Phergie_24:

(Start: 48 @18248 has 66 MA's), (76, 18320), (86, 18371), (87, 18377), (88, 18383), (112, 18446), (124, 18488), (145, 18566), (156, 18614), (161, 18638), (164, 18656), (165, 18662),

Gene: Phinally_28 Start: 21403, Stop: 21834, Start Num: 61

Candidate Starts for Phinally_28:

(10, 21175), (13, 21211), (45, 21376), (Start: 49 @21379 has 256 MA's), (Start: 61 @21403 has 101 MA's), (82, 21487), (113, 21583), (131, 21664), (134, 21670), (137, 21682), (155, 21742), (160, 21766), (169, 21805), (170, 21808),

Gene: Phipps_25 Start: 18653, Stop: 19075, Start Num: 49

Candidate Starts for Phipps_25:

(31, 18587), (Start: 49 @18653 has 256 MA's), (86, 18776), (87, 18782), (88, 18788), (112, 18851), (124, 18893), (145, 18971), (156, 19019), (161, 19043), (164, 19061), (165, 19067),

Gene: Phleuron_24 Start: 18254, Stop: 18676, Start Num: 48

Candidate Starts for Phleuron_24:

(Start: 48 @18254 has 66 MA's), (76, 18326), (86, 18377), (87, 18383), (88, 18389), (112, 18452), (124, 18494), (145, 18572), (156, 18620), (161, 18644), (164, 18662), (165, 18668),

Gene: Phlop_26 Start: 17656, Stop: 18099, Start Num: 61

Candidate Starts for Phlop_26:

(Start: 61 @17656 has 101 MA's), (131, 17917), (170, 18073),

Gene: Phrampa_81 Start: 50368, Stop: 50751, Start Num: 57

Candidate Starts for Phrampa_81:

(Start: 57 @50368 has 4 MA's), (67, 50407), (87, 50488), (89, 50509), (100, 50533), (121, 50590), (122, 50593), (135, 50647), (145, 50674),

Gene: PhrankReynolds_24 Start: 18254, Stop: 18676, Start Num: 48

Candidate Starts for PhrankReynolds_24:

(Start: 48 @18254 has 66 MA's), (76, 18326), (86, 18377), (87, 18383), (88, 18389), (112, 18452), (124, 18494), (145, 18572), (156, 18620), (161, 18644), (164, 18662), (165, 18668),

Gene: PhrodoBaggins_24 Start: 18671, Stop: 19093, Start Num: 49

Candidate Starts for PhrodoBaggins_24:

(31, 18605), (Start: 49 @18671 has 256 MA's), (86, 18794), (87, 18800), (88, 18806), (112, 18869), (124, 18911), (145, 18989), (156, 19037), (161, 19061), (164, 19079), (165, 19085),

Gene: Phunky_25 Start: 18677, Stop: 19099, Start Num: 49

Candidate Starts for Phunky_25:

(31, 18611), (Start: 49 @18677 has 256 MA's), (86, 18800), (87, 18806), (88, 18812), (112, 18875), (124, 18917), (145, 18995), (156, 19043), (161, 19067), (164, 19085), (165, 19091),

Gene: Piglet_0024 Start: 18677, Stop: 19099, Start Num: 49

Candidate Starts for Piglet_0024:

(31, 18611), (Start: 49 @18677 has 256 MA's), (86, 18800), (87, 18806), (88, 18812), (112, 18875), (124, 18917), (145, 18995), (156, 19043), (161, 19067), (164, 19085), (165, 19091),

Gene: Pine5_25 Start: 19604, Stop: 20017, Start Num: 50

Candidate Starts for Pine5_25:

(Start: 50 @19604 has 22 MA's), (Start: 52 @19607 has 27 MA's), (86, 19727), (112, 19805), (162, 20009),

Gene: PinheadLarry_25 Start: 18394, Stop: 18816, Start Num: 49

Candidate Starts for PinheadLarry_25:

(31, 18328), (Start: 49 @18394 has 256 MA's), (86, 18517), (87, 18523), (88, 18529), (112, 18592), (124, 18634), (145, 18712), (156, 18760), (161, 18784), (164, 18802), (165, 18808),

Gene: PinkCoffee_28 Start: 18295, Stop: 18738, Start Num: 61

Candidate Starts for PinkCoffee_28:

(Start: 61 @18295 has 101 MA's), (131, 18556), (170, 18712),

Gene: Pinkman_24 Start: 18234, Stop: 18656, Start Num: 48

Candidate Starts for Pinkman_24:

(Start: 48 @18234 has 66 MA's), (86, 18357), (87, 18363), (88, 18369), (112, 18432), (124, 18474), (145, 18552), (156, 18600), (161, 18624), (164, 18642), (165, 18648),

Gene: Pipsqueak_25 Start: 18683, Stop: 19105, Start Num: 49

Candidate Starts for Pipsqueak_25:

(31, 18617), (Start: 49 @18683 has 256 MA's), (86, 18806), (87, 18812), (88, 18818), (112, 18881), (124, 18923), (135, 18974), (145, 19001), (156, 19049), (161, 19073), (164, 19091), (165, 19097),

Gene: Placalicious_24 Start: 18376, Stop: 18798, Start Num: 49

Candidate Starts for Placalicious_24:

(31, 18310), (Start: 49 @18376 has 256 MA's), (86, 18499), (87, 18505), (88, 18511), (112, 18574), (124, 18616), (135, 18667), (145, 18694), (156, 18742), (161, 18766), (164, 18784), (165, 18790),

Gene: Plata_25 Start: 18390, Stop: 18812, Start Num: 48

Candidate Starts for Plata_25:

(Start: 48 @18390 has 66 MA's), (86, 18513), (87, 18519), (88, 18525), (112, 18588), (124, 18630), (145, 18708), (156, 18756), (161, 18780), (164, 18798), (165, 18804),

Gene: Plmatters_25 Start: 18680, Stop: 19102, Start Num: 49

Candidate Starts for Plmatters_25:

(31, 18614), (Start: 49 @18680 has 256 MA's), (86, 18803), (87, 18809), (88, 18815), (112, 18878), (124, 18920), (145, 18998), (156, 19046), (161, 19070), (164, 19088), (165, 19094),

Gene: Podrick_25 Start: 18672, Stop: 19094, Start Num: 49

Candidate Starts for Podrick_25:

(31, 18606), (Start: 49 @18672 has 256 MA's), (86, 18795), (87, 18801), (88, 18807), (112, 18870), (124, 18912), (145, 18990), (156, 19038), (161, 19062), (164, 19080), (165, 19086),

Gene: Pops_25 Start: 18680, Stop: 19102, Start Num: 49

Candidate Starts for Pops_25:

(31, 18614), (Start: 49 @18680 has 256 MA's), (86, 18803), (87, 18809), (88, 18815), (112, 18878), (124, 18920), (145, 18998), (156, 19046), (161, 19070), (164, 19088), (165, 19094),

Gene: Portcullis_26 Start: 17599, Stop: 18042, Start Num: 61

Candidate Starts for Portcullis_26:

(Start: 61 @17599 has 101 MA's), (131, 17860), (170, 18016),

Gene: Poster_22 Start: 18304, Stop: 18717, Start Num: 54

Candidate Starts for Poster_22:

(Start: 54 @18304 has 26 MA's), (86, 18418), (87, 18424), (88, 18430), (99, 18466), (112, 18493), (116, 18505), (118, 18517), (124, 18535), (145, 18613), (160, 18682), (165, 18709),

Gene: Potter_24 Start: 18390, Stop: 18812, Start Num: 49

Candidate Starts for Potter_24:

(31, 18324), (Start: 49 @18390 has 256 MA's), (86, 18513), (87, 18519), (88, 18525), (112, 18588), (124, 18630), (135, 18681), (145, 18708), (156, 18756), (161, 18780), (164, 18798), (165, 18804),

Gene: Prickles_25 Start: 18669, Stop: 19091, Start Num: 49

Candidate Starts for Prickles_25:

(31, 18603), (Start: 49 @18669 has 256 MA's), (86, 18792), (87, 18798), (88, 18804), (112, 18867), (124, 18909), (145, 18987), (156, 19035), (161, 19059), (164, 19077), (165, 19083),

Gene: Prince_23 Start: 19496, Stop: 19909, Start Num: 54

Candidate Starts for Prince_23:

(Start: 54 @19496 has 26 MA's), (86, 19610), (87, 19616), (88, 19622), (99, 19658), (116, 19697), (118, 19709), (124, 19727), (145, 19805), (151, 19820), (160, 19874), (161, 19877), (165, 19901),

Gene: PrinceCharming_27 Start: 20950, Stop: 21378, Start Num: 49

Candidate Starts for PrinceCharming_27:

(40, 20923), (Start: 49 @20950 has 256 MA's), (Start: 58 @20965 has 16 MA's), (87, 21082), (88, 21088), (93, 21115), (105, 21136), (112, 21154), (145, 21274), (146, 21280), (160, 21343), (165, 21370),

Gene: ProfessorX_25 Start: 18667, Stop: 19089, Start Num: 49

Candidate Starts for ProfessorX_25:

(31, 18601), (Start: 49 @18667 has 256 MA's), (86, 18790), (87, 18796), (88, 18802), (112, 18865), (124, 18907), (145, 18985), (156, 19033), (161, 19057), (164, 19075), (165, 19081),

Gene: Puhltonio_25 Start: 18683, Stop: 19105, Start Num: 49

Candidate Starts for Puhltonio_25:

(31, 18617), (Start: 49 @18683 has 256 MA's), (86, 18806), (87, 18812), (88, 18818), (112, 18881), (124, 18923), (145, 19001), (156, 19049), (161, 19073), (164, 19091), (165, 19097),

Gene: PullumCavea_26 Start: 17656, Stop: 18099, Start Num: 61

Candidate Starts for PullumCavea_26:

(Start: 61 @17656 has 101 MA's), (131, 17917), (170, 18073),

Gene: Pumpernickel_91 Start: 51418, Stop: 51831, Start Num: 42

Candidate Starts for Pumpernickel_91:

(Start: 42 @51418 has 1 MA's), (76, 51508), (82, 51541), (87, 51565), (89, 51586), (122, 51670), (142, 51748), (151, 51766), (152, 51769),

Gene: Pumpkiney_31 Start: 20284, Stop: 20715, Start Num: 61

Candidate Starts for Pumpkiney_31:

(14, 20098), (23, 20158), (35, 20224), (45, 20257), (Start: 61 @20284 has 101 MA's), (89, 20413), (104, 20443), (131, 20545), (134, 20551), (140, 20566), (155, 20623), (158, 20638), (169, 20686), (170, 20689),

Gene: Purplicious_52 Start: 28781, Stop: 29206, Start Num: 49

Candidate Starts for Purplicious_52:

(Start: 49 @28781 has 256 MA's), (108, 28979), (127, 29051), (143, 29105), (150, 29120),

Gene: QueenBeane_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for QueenBeane_25:

(31, 18609), (Start: 49 @18675 has 256 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: QueenPie_22 Start: 19500, Stop: 19913, Start Num: 54

Candidate Starts for QueenPie_22:

(Start: 54 @19500 has 26 MA's), (87, 19620), (88, 19626), (99, 19662), (116, 19701), (118, 19713), (124, 19731), (145, 19809), (160, 19878), (165, 19905),

Gene: Quesadilla_26 Start: 20803, Stop: 21240, Start Num: 50

Candidate Starts for Quesadilla_26:

(Start: 50 @20803 has 22 MA's), (87, 20929), (88, 20935), (99, 20971), (112, 20998), (145, 21118), (153, 21148), (160, 21187),

Gene: Quisquiliae_25 Start: 18690, Stop: 19112, Start Num: 49

Candidate Starts for Quisquiliae_25:

(31, 18624), (Start: 49 @18690 has 256 MA's), (86, 18813), (87, 18819), (88, 18825), (112, 18888), (124, 18930), (145, 19008), (156, 19056), (161, 19080), (164, 19098), (165, 19104),

Gene: Qyrzula_25 Start: 20920, Stop: 21348, Start Num: 49

Candidate Starts for Qyrzula_25:

(40, 20893), (Start: 49 @20920 has 256 MA's), (Start: 58 @20935 has 16 MA's), (87, 21052), (88, 21058), (93, 21085), (105, 21106), (112, 21124), (145, 21244), (146, 21250), (160, 21313), (165, 21340),

Gene: Racecar_88 Start: 53421, Stop: 53804, Start Num: 57

Candidate Starts for Racecar_88:

(Start: 57 @53421 has 4 MA's), (67, 53460), (68, 53463), (89, 53562), (100, 53586), (119, 53637), (122, 53646), (135, 53700), (145, 53727), (149, 53739),

Gene: RainyPolka_20 Start: 19600, Stop: 19980, Start Num: 58

Candidate Starts for RainyPolka_20:

(9, 19327), (15, 19408), (Start: 58 @19600 has 16 MA's), (62, 19615), (75, 19657), (85, 19702), (93, 19744), (124, 19822), (133, 19873), (138, 19888), (149, 19915), (151, 19918),

Gene: RawrgerThat_23 Start: 19333, Stop: 19746, Start Num: 54

Candidate Starts for RawrgerThat_23:

(Start: 54 @19333 has 26 MA's), (86, 19447), (87, 19453), (88, 19459), (99, 19495), (116, 19534), (118, 19546), (124, 19564), (145, 19642), (151, 19657), (160, 19711), (161, 19714), (165, 19738),

Gene: Reccee_26 Start: 19570, Stop: 19986, Start Num: 52

Candidate Starts for Reccee_26:

(Start: 52 @19570 has 27 MA's), (73, 19630), (88, 19699), (124, 19804), (128, 19834), (166, 19981),

Gene: RedMaple_24 Start: 18686, Stop: 19108, Start Num: 49

Candidate Starts for RedMaple_24:

(31, 18620), (Start: 49 @18686 has 256 MA's), (86, 18809), (87, 18815), (88, 18821), (112, 18884), (124, 18926), (145, 19004), (156, 19052), (161, 19076), (164, 19094), (165, 19100),

Gene: RedRaider89_25 Start: 18906, Stop: 19328, Start Num: 49

Candidate Starts for RedRaider89_25:

(31, 18840), (Start: 49 @18906 has 256 MA's), (86, 19029), (87, 19035), (88, 19041), (112, 19104), (124, 19146), (145, 19224), (156, 19272), (161, 19296), (164, 19314), (165, 19320),

Gene: ReginaGlobina_87 Start: 52911, Stop: 53291, Start Num: 58

Candidate Starts for ReginaGlobina_87:

(Start: 58 @52911 has 16 MA's), (Start: 61 @52920 has 101 MA's), (67, 52947), (107, 53088), (122, 53133), (128, 53166), (151, 53229),

Gene: Renkei_22 Start: 18311, Stop: 18724, Start Num: 54

Candidate Starts for Renkei_22:

(Start: 54 @18311 has 26 MA's), (86, 18425), (87, 18431), (88, 18437), (99, 18473), (116, 18512), (118, 18524), (124, 18542), (145, 18620), (160, 18689), (165, 18716),

Gene: Reprobate_25 Start: 19641, Stop: 20057, Start Num: 52

Candidate Starts for Reprobate_25:

(Start: 52 @19641 has 27 MA's), (73, 19701), (87, 19764), (88, 19770), (124, 19875), (128, 19905), (145, 19953), (166, 20052),

Gene: Rhinoforte_27 Start: 20951, Stop: 21379, Start Num: 49

Candidate Starts for Rhinoforte_27:

(40, 20924), (Start: 49 @20951 has 256 MA's), (Start: 58 @20966 has 16 MA's), (87, 21083), (88, 21089), (93, 21116), (105, 21137), (112, 21155), (145, 21275), (146, 21281), (160, 21344), (165, 21371),

Gene: Ribeye_30 Start: 23007, Stop: 23441, Start Num: 52

Candidate Starts for Ribeye_30:

(Start: 52 @23007 has 27 MA's), (77, 23061), (82, 23091), (104, 23166), (131, 23268), (140, 23289), (158, 23361), (170, 23412),

Gene: Rich_24 Start: 19142, Stop: 19558, Start Num: 52

Candidate Starts for Rich_24:

(Start: 52 @19142 has 27 MA's), (86, 19259), (88, 19271), (112, 19334), (160, 19523), (166, 19553),

Gene: Ricotta_24 Start: 18398, Stop: 18820, Start Num: 49

Candidate Starts for Ricotta_24:

(31, 18332), (Start: 49 @18398 has 256 MA's), (86, 18521), (87, 18527), (88, 18533), (112, 18596), (124, 18638), (145, 18716), (156, 18764), (161, 18788), (164, 18806), (165, 18812),

Gene: Riggan_25 Start: 18658, Stop: 19080, Start Num: 49

Candidate Starts for Riggan_25:

(31, 18592), (Start: 49 @18658 has 256 MA's), (86, 18781), (87, 18787), (88, 18793), (112, 18856), (124, 18898), (145, 18976), (156, 19024), (161, 19048), (164, 19066), (165, 19072),

Gene: Rimu_25 Start: 18407, Stop: 18829, Start Num: 48

Candidate Starts for Rimu_25:

(Start: 48 @18407 has 66 MA's), (76, 18479), (86, 18530), (87, 18536), (88, 18542), (112, 18605), (124, 18647), (145, 18725), (156, 18773), (161, 18797), (164, 18815), (165, 18821),

Gene: Rinkes_28 Start: 21670, Stop: 22086, Start Num: 52

Candidate Starts for Rinkes_28:

(Start: 52 @21670 has 27 MA's), (87, 21793), (88, 21799), (99, 21835), (124, 21904), (145, 21982), (151, 21997), (160, 22051), (161, 22054), (165, 22078),

Gene: Rita130_25 Start: 19390, Stop: 19806, Start Num: 52

Candidate Starts for Rita130_25:

(Start: 52 @19390 has 27 MA's), (73, 19450), (88, 19519), (124, 19624), (128, 19654), (166, 19801),

Gene: RiverRaider_30 Start: 21439, Stop: 21873, Start Num: 61

Candidate Starts for RiverRaider_30:

(Start: 61 @21439 has 101 MA's), (82, 21523), (131, 21700), (140, 21721), (155, 21778), (158, 21793), (170, 21844),

Gene: Riverton_24 Start: 18682, Stop: 19104, Start Num: 49

Candidate Starts for Riverton_24:

(31, 18616), (Start: 49 @18682 has 256 MA's), (86, 18805), (87, 18811), (88, 18817), (112, 18880), (124, 18922), (145, 19000), (156, 19048), (161, 19072), (164, 19090), (165, 19096),

Gene: RoadKill_25 Start: 19107, Stop: 19538, Start Num: 61

Candidate Starts for RoadKill_25:

(17, 18933), (24, 18984), (Start: 61 @19107 has 101 MA's), (82, 19191), (104, 19266), (137, 19386), (144, 19401), (158, 19461), (167, 19500), (169, 19509), (170, 19512),

Gene: Robyn_24 Start: 18249, Stop: 18671, Start Num: 49

Candidate Starts for Robyn_24:

(31, 18183), (Start: 49 @18249 has 256 MA's), (86, 18372), (87, 18378), (88, 18384), (112, 18447), (124, 18489), (145, 18567), (156, 18615), (161, 18639), (164, 18657), (165, 18663),

Gene: Rockabye_89 Start: 55651, Stop: 56040, Start Num: 58

Candidate Starts for Rockabye_89:

(Start: 58 @55651 has 16 MA's), (76, 55711), (80, 55741), (88, 55774), (122, 55873), (135, 55927), (145, 55954), (149, 55966), (158, 56014),

Gene: Rofo_30 Start: 23214, Stop: 23648, Start Num: 61

Candidate Starts for Rofo_30:

(43, 23184), (Start: 61 @23214 has 101 MA's), (82, 23298), (104, 23373), (114, 23397), (131, 23475), (158, 23568), (170, 23619),

Gene: RogerDodger_29 Start: 18449, Stop: 18892, Start Num: 61

Candidate Starts for RogerDodger_29:

(Start: 61 @18449 has 101 MA's), (131, 18710), (170, 18866),

Gene: Roliet_25 Start: 18674, Stop: 19096, Start Num: 49

Candidate Starts for Roliet_25:

(31, 18608), (Start: 49 @18674 has 256 MA's), (86, 18797), (87, 18803), (88, 18809), (112, 18872), (124, 18914), (145, 18992), (156, 19040), (161, 19064), (164, 19082), (165, 19088),

Gene: Roscoe_26 Start: 18916, Stop: 19338, Start Num: 49

Candidate Starts for Roscoe_26:

(31, 18850), (Start: 49 @18916 has 256 MA's), (86, 19039), (87, 19045), (88, 19051), (112, 19114), (124, 19156), (145, 19234), (156, 19282), (161, 19306), (164, 19324), (165, 19330),

Gene: Rosebush_27 Start: 20951, Stop: 21379, Start Num: 49

Candidate Starts for Rosebush_27:

(40, 20924), (Start: 49 @20951 has 256 MA's), (Start: 58 @20966 has 16 MA's), (87, 21083), (88, 21089), (93, 21116), (105, 21137), (112, 21155), (145, 21275), (146, 21281), (160, 21344), (165, 21371),

Gene: Roy17_25 Start: 18378, Stop: 18800, Start Num: 49

Candidate Starts for Roy17_25:

(31, 18312), (Start: 49 @18378 has 256 MA's), (86, 18501), (87, 18507), (88, 18513), (112, 18576), (124, 18618), (145, 18696), (156, 18744), (161, 18768), (164, 18786), (165, 18792),

Gene: SDcharge11_25 Start: 18656, Stop: 19078, Start Num: 49

Candidate Starts for SDcharge11_25:

(31, 18590), (Start: 49 @18656 has 256 MA's), (86, 18779), (87, 18785), (88, 18791), (112, 18854), (124, 18896), (145, 18974), (156, 19022), (161, 19046), (164, 19064), (165, 19070),

Gene: SJReid_90 Start: 54733, Stop: 55122, Start Num: 58

Candidate Starts for SJReid_90:

(Start: 58 @54733 has 16 MA's), (74, 54790), (100, 54895), (101, 54898), (122, 54955), (135, 55009), (145, 55036), (149, 55048), (158, 55096),

Gene: Sabella_27 Start: 20837, Stop: 21265, Start Num: 49

Candidate Starts for Sabella_27:

(40, 20810), (Start: 49 @20837 has 256 MA's), (Start: 58 @20852 has 16 MA's), (87, 20969), (88, 20975), (93, 21002), (105, 21023), (112, 21041), (145, 21161), (146, 21167), (160, 21230), (165, 21257),

Gene: Saguaro_26 Start: 20711, Stop: 21127, Start Num: 52

Candidate Starts for Saguaro_26:

(Start: 52 @20711 has 27 MA's), (87, 20834), (145, 21023), (151, 21038), (153, 21053),

Gene: Salete_19 Start: 19235, Stop: 19615, Start Num: 58

Candidate Starts for Salete_19:

(6, 18785), (15, 19067), (Start: 58 @19235 has 16 MA's), (62, 19250), (75, 19292), (85, 19337), (116, 19427), (124, 19457), (133, 19508), (138, 19523), (149, 19550), (151, 19553),

Gene: SallyH_25 Start: 18688, Stop: 19110, Start Num: 49

Candidate Starts for SallyH_25:

(31, 18622), (Start: 49 @18688 has 256 MA's), (86, 18811), (87, 18817), (88, 18823), (112, 18886), (124, 18928), (145, 19006), (156, 19054), (161, 19078), (164, 19096), (165, 19102),

Gene: Salvador_26 Start: 17570, Stop: 18013, Start Num: 61

Candidate Starts for Salvador_26:

(Start: 61 @17570 has 101 MA's), (131, 17831), (170, 17987),

Gene: Samaymay_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for Samaymay_25:

(31, 18609), (Start: 49 @18675 has 256 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: Sampson_30 Start: 22909, Stop: 23340, Start Num: 61

Candidate Starts for Sampson_30:

(35, 22849), (45, 22882), (Start: 61 @22909 has 101 MA's), (89, 23038), (104, 23068), (131, 23170), (134, 23176), (140, 23191), (155, 23248), (158, 23263), (169, 23311), (170, 23314),

Gene: Sanjuju_28 Start: 23395, Stop: 23829, Start Num: 61

Candidate Starts for Sanjuju_28:

(43, 23365), (Start: 61 @23395 has 101 MA's), (82, 23479), (104, 23554), (114, 23578), (131, 23656), (140, 23677), (158, 23749), (170, 23800),

Gene: Saronaya_29 Start: 21853, Stop: 22287, Start Num: 61

Candidate Starts for Saronaya_29:

(Start: 54 @21844 has 26 MA's), (Start: 61 @21853 has 101 MA's), (82, 21937), (104, 22012), (131, 22114), (140, 22135), (155, 22192), (158, 22207), (170, 22258),

Gene: SassyCat97_24 Start: 18384, Stop: 18806, Start Num: 49

Candidate Starts for SassyCat97_24:

(31, 18318), (Start: 49 @18384 has 256 MA's), (86, 18507), (87, 18513), (88, 18519), (112, 18582), (124, 18624), (145, 18702), (156, 18750), (161, 18774), (164, 18792), (165, 18798),

Gene: Savbucketdawg_26 Start: 17351, Stop: 17794, Start Num: 61

Candidate Starts for Savbucketdawg_26:

(Start: 61 @17351 has 101 MA's), (131, 17612), (170, 17768),

Gene: Schadenfreude_24 Start: 18232, Stop: 18654, Start Num: 49

Candidate Starts for Schadenfreude_24:

(31, 18166), (Start: 49 @18232 has 256 MA's), (86, 18355), (87, 18361), (88, 18367), (112, 18430), (124, 18472), (145, 18550), (156, 18598), (161, 18622), (164, 18640), (165, 18646),

Gene: SchottB_28 Start: 22865, Stop: 23299, Start Num: 61

Candidate Starts for SchottB_28:

(Start: 54 @22856 has 26 MA's), (Start: 61 @22865 has 101 MA's), (82, 22949), (104, 23024), (131, 23126), (140, 23147), (155, 23204), (158, 23219), (170, 23270),

Gene: Schueller_24 Start: 18375, Stop: 18797, Start Num: 48

Candidate Starts for Schueller_24:

(Start: 48 @18375 has 66 MA's), (86, 18498), (87, 18504), (88, 18510), (112, 18573), (124, 18615), (145, 18693), (156, 18741), (161, 18765), (164, 18783), (165, 18789),

Gene: Scioto_30 Start: 22964, Stop: 23395, Start Num: 61

Candidate Starts for Scioto_30:

(35, 22904), (45, 22937), (Start: 61 @22964 has 101 MA's), (89, 23093), (104, 23123), (131, 23225), (134, 23231), (140, 23246), (155, 23303), (158, 23318), (169, 23366), (170, 23369),

Gene: Scoot17C_25 Start: 18677, Stop: 19099, Start Num: 49

Candidate Starts for Scoot17C_25:

(31, 18611), (Start: 49 @18677 has 256 MA's), (86, 18800), (87, 18806), (88, 18812), (112, 18875), (124, 18917), (135, 18968), (145, 18995), (156, 19043), (161, 19067), (164, 19085), (165, 19091),

Gene: Scrick_25 Start: 18402, Stop: 18824, Start Num: 49

Candidate Starts for Scrick_25:

(31, 18336), (Start: 49 @18402 has 256 MA's), (86, 18525), (87, 18531), (88, 18537), (112, 18600), (124, 18642), (145, 18720), (156, 18768), (161, 18792), (164, 18810), (165, 18816),

Gene: Sedona_30 Start: 24320, Stop: 24754, Start Num: 61

Candidate Starts for Sedona_30:

(Start: 61 @24320 has 101 MA's), (82, 24404), (104, 24479), (114, 24503), (131, 24581), (140, 24602), (155, 24659), (158, 24674), (170, 24725),

Gene: Sejanus_22 Start: 17555, Stop: 17959, Start Num: 53

Candidate Starts for Sejanus_22:

(Start: 53 @17555 has 4 MA's), (78, 17633), (87, 17678), (88, 17684), (104, 17729), (112, 17750), (124, 17792), (127, 17816), (135, 17843), (138, 17855), (159, 17933),

Gene: Selr12_25 Start: 18399, Stop: 18821, Start Num: 49

Candidate Starts for Selr12_25:

(31, 18333), (Start: 49 @18399 has 256 MA's), (86, 18522), (87, 18528), (88, 18534), (112, 18597), (124, 18639), (145, 18717), (156, 18765), (161, 18789), (164, 18807), (165, 18813),

Gene: Serendipitous_24 Start: 19199, Stop: 19615, Start Num: 52
Candidate Starts for Serendipitous_24:
(Start: 52 @19199 has 27 MA's), (89, 19343), (99, 19364), (118, 19415), (135, 19484), (160, 19580),
(166, 19610),

Gene: Serendipity_25 Start: 18697, Stop: 19119, Start Num: 49
Candidate Starts for Serendipity_25:
(31, 18631), (Start: 49 @18697 has 256 MA's), (86, 18820), (87, 18826), (88, 18832), (112, 18895),
(124, 18937), (145, 19015), (156, 19063), (161, 19087), (164, 19105), (165, 19111),

Gene: Serpentine_0025 Start: 18677, Stop: 19099, Start Num: 49
Candidate Starts for Serpentine_0025:
(31, 18611), (Start: 49 @18677 has 256 MA's), (86, 18800), (87, 18806), (88, 18812), (112, 18875),
(124, 18917), (145, 18995), (156, 19043), (161, 19067), (164, 19085), (165, 19091),

Gene: ShadowBud_25 Start: 18690, Stop: 19112, Start Num: 49
Candidate Starts for ShadowBud_25:
(31, 18624), (Start: 49 @18690 has 256 MA's), (86, 18813), (87, 18819), (88, 18825), (112, 18888),
(124, 18930), (145, 19008), (156, 19056), (161, 19080), (164, 19098), (165, 19104),

Gene: Shatter_22 Start: 17225, Stop: 17635, Start Num: 50
Candidate Starts for Shatter_22:
(Start: 50 @17225 has 22 MA's), (78, 17306), (86, 17345), (88, 17357), (102, 17399), (105, 17405),
(112, 17423), (133, 17513),

Gene: Sheila_25 Start: 18669, Stop: 19091, Start Num: 49
Candidate Starts for Sheila_25:
(31, 18603), (Start: 49 @18669 has 256 MA's), (86, 18792), (87, 18798), (88, 18804), (112, 18867),
(124, 18909), (145, 18987), (156, 19035), (161, 19059), (164, 19077), (165, 19083),

Gene: Shenyu_25 Start: 19342, Stop: 19758, Start Num: 52
Candidate Starts for Shenyu_25:
(Start: 52 @19342 has 27 MA's), (112, 19534), (124, 19576), (135, 19627), (166, 19753),

Gene: ShiVal_25 Start: 18669, Stop: 19091, Start Num: 49
Candidate Starts for ShiVal_25:
(31, 18603), (Start: 49 @18669 has 256 MA's), (86, 18792), (87, 18798), (88, 18804), (112, 18867),
(124, 18909), (145, 18987), (156, 19035), (161, 19059), (164, 19077), (165, 19083),

Gene: Shinji_26 Start: 17540, Stop: 17983, Start Num: 61
Candidate Starts for Shinji_26:
(Start: 61 @17540 has 101 MA's), (131, 17801), (170, 17957),

Gene: Shivanishola_31 Start: 23294, Stop: 23728, Start Num: 61
Candidate Starts for Shivanishola_31:
(43, 23264), (Start: 61 @23294 has 101 MA's), (82, 23378), (104, 23453), (114, 23477), (131, 23555),
(140, 23576), (158, 23648), (170, 23699),

Gene: Sigman_25 Start: 18668, Stop: 19090, Start Num: 49
Candidate Starts for Sigman_25:
(31, 18602), (Start: 49 @18668 has 256 MA's), (86, 18791), (87, 18797), (88, 18803), (112, 18866),
(124, 18908), (145, 18986), (156, 19034), (161, 19058), (164, 19076), (165, 19082),

Gene: SilverBell_25 Start: 18692, Stop: 19114, Start Num: 49

Candidate Starts for SilverBell_25:

(31, 18626), (Start: 49 @18692 has 256 MA's), (86, 18815), (87, 18821), (88, 18827), (112, 18890), (124, 18932), (145, 19010), (156, 19058), (161, 19082), (164, 19100), (165, 19106),

Gene: Simielle_24 Start: 18367, Stop: 18789, Start Num: 49

Candidate Starts for Simielle_24:

(31, 18301), (Start: 49 @18367 has 256 MA's), (86, 18490), (87, 18496), (88, 18502), (112, 18565), (124, 18607), (145, 18685), (156, 18733), (161, 18757), (164, 18775), (165, 18781),

Gene: SirBeauregard_24 Start: 18361, Stop: 18783, Start Num: 48

Candidate Starts for SirBeauregard_24:

(Start: 48 @18361 has 66 MA's), (76, 18433), (86, 18484), (87, 18490), (88, 18496), (112, 18559), (124, 18601), (145, 18679), (156, 18727), (161, 18751), (164, 18769), (165, 18775),

Gene: SirJeffery_25 Start: 19385, Stop: 19801, Start Num: 52

Candidate Starts for SirJeffery_25:

(Start: 52 @19385 has 27 MA's), (73, 19445), (88, 19514), (124, 19619), (128, 19649), (166, 19796),

Gene: Sisko_22 Start: 17508, Stop: 17921, Start Num: 50

Candidate Starts for Sisko_22:

(Start: 50 @17508 has 22 MA's), (74, 17577), (88, 17643), (105, 17691), (133, 17799), (160, 17898),

Gene: Sitar_30 Start: 24387, Stop: 24821, Start Num: 61

Candidate Starts for Sitar_30:

(43, 24357), (Start: 61 @24387 has 101 MA's), (82, 24471), (104, 24546), (131, 24648), (140, 24669), (158, 24741), (170, 24792),

Gene: Sixama_94 Start: 51509, Stop: 51916, Start Num: 58

Candidate Starts for Sixama_94:

(Start: 57 @51506 has 4 MA's), (Start: 58 @51509 has 16 MA's), (67, 51545), (82, 51602), (126, 51776), (127, 51785), (136, 51821), (141, 51833), (151, 51854), (156, 51887), (158, 51899), (160, 51908),

Gene: Skippy_25 Start: 18662, Stop: 19084, Start Num: 49

Candidate Starts for Skippy_25:

(31, 18596), (Start: 49 @18662 has 256 MA's), (86, 18785), (87, 18791), (88, 18797), (112, 18860), (124, 18902), (145, 18980), (156, 19028), (161, 19052), (164, 19070), (165, 19076),

Gene: Slatt_25 Start: 18691, Stop: 19113, Start Num: 49

Candidate Starts for Slatt_25:

(31, 18625), (Start: 49 @18691 has 256 MA's), (86, 18814), (87, 18820), (88, 18826), (112, 18889), (124, 18931), (145, 19009), (156, 19057), (161, 19081), (164, 19099), (165, 19105),

Gene: SmokingBunny_26 Start: 17570, Stop: 18013, Start Num: 61

Candidate Starts for SmokingBunny_26:

(Start: 61 @17570 has 101 MA's), (131, 17831), (170, 17987),

Gene: Soile_25 Start: 18389, Stop: 18811, Start Num: 48

Candidate Starts for Soile_25:

(Start: 48 @18389 has 66 MA's), (87, 18518), (88, 18524), (112, 18587), (124, 18629), (145, 18707), (156, 18755), (161, 18779), (164, 18797), (165, 18803),

Gene: Solosis_24 Start: 18394, Stop: 18816, Start Num: 49

Candidate Starts for Solosis_24:

(31, 18328), (Start: 49 @18394 has 256 MA's), (86, 18517), (87, 18523), (88, 18529), (112, 18592), (124, 18634), (145, 18712), (156, 18760), (161, 18784), (164, 18802), (165, 18808),

Gene: Soos_49 Start: 28742, Stop: 29167, Start Num: 49

Candidate Starts for Soos_49:

(Start: 49 @28742 has 256 MA's), (108, 28940), (127, 29012), (143, 29066), (150, 29081),

Gene: Sophia_24 Start: 18387, Stop: 18809, Start Num: 49

Candidate Starts for Sophia_24:

(31, 18321), (Start: 49 @18387 has 256 MA's), (86, 18510), (87, 18516), (88, 18522), (112, 18585), (124, 18627), (145, 18705), (156, 18753), (161, 18777), (164, 18795), (165, 18801),

Gene: Soto_25 Start: 18671, Stop: 19093, Start Num: 49

Candidate Starts for Soto_25:

(31, 18605), (Start: 49 @18671 has 256 MA's), (86, 18794), (87, 18800), (88, 18806), (112, 18869), (124, 18911), (145, 18989), (156, 19037), (161, 19061), (164, 19079), (165, 19085),

Gene: Sour_26 Start: 21204, Stop: 21638, Start Num: 41

Candidate Starts for Sour_26:

(Start: 41 @21204 has 1 MA's), (Start: 50 @21225 has 22 MA's), (74, 21294), (102, 21402), (105, 21408), (124, 21468), (125, 21474), (133, 21516),

Gene: Spartan300_25 Start: 18672, Stop: 19094, Start Num: 49

Candidate Starts for Spartan300_25:

(31, 18606), (Start: 49 @18672 has 256 MA's), (86, 18795), (87, 18801), (88, 18807), (112, 18870), (124, 18912), (145, 18990), (156, 19038), (161, 19062), (164, 19080), (165, 19086),

Gene: Squid_25 Start: 18384, Stop: 18806, Start Num: 49

Candidate Starts for Squid_25:

(31, 18318), (Start: 49 @18384 has 256 MA's), (86, 18507), (87, 18513), (88, 18519), (112, 18582), (124, 18624), (145, 18702), (156, 18750), (161, 18774), (164, 18792), (165, 18798),

Gene: Squiggle_25 Start: 18381, Stop: 18803, Start Num: 49

Candidate Starts for Squiggle_25:

(31, 18315), (Start: 49 @18381 has 256 MA's), (86, 18504), (87, 18510), (88, 18516), (112, 18579), (124, 18621), (145, 18699), (156, 18747), (161, 18771), (164, 18789), (165, 18795),

Gene: Stillion_53 Start: 29339, Stop: 29764, Start Num: 49

Candidate Starts for Stillion_53:

(Start: 49 @29339 has 256 MA's), (108, 29537), (127, 29609), (143, 29663), (150, 29678),

Gene: Sting_52 Start: 29181, Stop: 29606, Start Num: 49

Candidate Starts for Sting_52:

(Start: 49 @29181 has 256 MA's), (108, 29379), (127, 29451), (143, 29505), (150, 29520),

Gene: Stinger_21 Start: 17880, Stop: 18293, Start Num: 54

Candidate Starts for Stinger_21:

(Start: 54 @17880 has 26 MA's), (87, 18000), (88, 18006), (99, 18042), (112, 18069), (116, 18081), (118, 18093), (124, 18111), (145, 18189), (160, 18258), (161, 18261), (165, 18285),

Gene: StinkyVeggy_27 Start: 19514, Stop: 19930, Start Num: 52

Candidate Starts for StinkyVeggy_27:

(Start: 52 @19514 has 27 MA's), (112, 19706), (135, 19799), (166, 19925),

Gene: StorminNorm_29 Start: 21732, Stop: 22166, Start Num: 61

Candidate Starts for StorminNorm_29:

(Start: 54 @21723 has 26 MA's), (Start: 61 @21732 has 101 MA's), (82, 21816), (104, 21891), (131, 21993), (140, 22014), (155, 22071), (158, 22086), (170, 22137),

Gene: Struggle_24 Start: 18228, Stop: 18650, Start Num: 48

Candidate Starts for Struggle_24:

(Start: 48 @18228 has 66 MA's), (86, 18351), (87, 18357), (88, 18363), (112, 18426), (124, 18468), (145, 18546), (156, 18594), (161, 18618), (164, 18636), (165, 18642),

Gene: Stultus_28 Start: 22302, Stop: 22736, Start Num: 61

Candidate Starts for Stultus_28:

(43, 22272), (Start: 61 @22302 has 101 MA's), (82, 22386), (104, 22461), (114, 22485), (131, 22563), (140, 22584), (158, 22656), (170, 22707),

Gene: Suffolk_25 Start: 18674, Stop: 19096, Start Num: 49

Candidate Starts for Suffolk_25:

(31, 18608), (Start: 49 @18674 has 256 MA's), (86, 18797), (87, 18803), (88, 18809), (112, 18872), (124, 18914), (145, 18992), (156, 19040), (161, 19064), (164, 19082), (165, 19088),

Gene: Suigeneris_25 Start: 19394, Stop: 19810, Start Num: 52

Candidate Starts for Suigeneris_25:

(Start: 52 @19394 has 27 MA's), (73, 19454), (88, 19523), (124, 19628), (128, 19658), (166, 19805),

Gene: Surely_25 Start: 18686, Stop: 19108, Start Num: 49

Candidate Starts for Surely_25:

(31, 18620), (Start: 49 @18686 has 256 MA's), (86, 18809), (87, 18815), (88, 18821), (112, 18884), (124, 18926), (145, 19004), (156, 19052), (161, 19076), (164, 19094), (165, 19100),

Gene: Swiphy_25 Start: 18675, Stop: 19097, Start Num: 48

Candidate Starts for Swiphy_25:

(Start: 48 @18675 has 66 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: Swish_25 Start: 18669, Stop: 19091, Start Num: 49

Candidate Starts for Swish_25:

(31, 18603), (Start: 49 @18669 has 256 MA's), (86, 18792), (87, 18798), (88, 18804), (112, 18867), (124, 18909), (145, 18987), (156, 19035), (161, 19059), (164, 19077), (165, 19083),

Gene: TA17A_28 Start: 20831, Stop: 21259, Start Num: 49

Candidate Starts for TA17A_28:

(40, 20804), (Start: 49 @20831 has 256 MA's), (Start: 58 @20846 has 16 MA's), (87, 20963), (88, 20969), (93, 20996), (105, 21017), (112, 21035), (145, 21155), (146, 21161), (160, 21224), (165, 21251),

Gene: TP1604_19 Start: 19235, Stop: 19615, Start Num: 58

Candidate Starts for TP1604_19:

(6, 18785), (15, 19067), (Start: 58 @19235 has 16 MA's), (62, 19250), (75, 19292), (85, 19337), (116, 19427), (124, 19457), (133, 19508), (138, 19523), (149, 19550), (151, 19553),

Gene: TPA2_31 Start: 19553, Stop: 19993, Start Num: 44

Candidate Starts for TPA2_31:

(Start: 44 @19553 has 4 MA's), (87, 19697), (88, 19703), (112, 19769), (145, 19892), (160, 19961), (163, 19979),

Gene: Talia1610_87 Start: 52786, Stop: 53169, Start Num: 57

Candidate Starts for Talia1610_87:

(Start: 57 @52786 has 4 MA's), (67, 52825), (89, 52927), (100, 52951), (111, 52972), (119, 53002), (122, 53011), (135, 53065), (145, 53092), (149, 53104),

Gene: TallGrassMM_25 Start: 18401, Stop: 18823, Start Num: 49

Candidate Starts for TallGrassMM_25:

(31, 18335), (Start: 49 @18401 has 256 MA's), (86, 18524), (87, 18530), (88, 18536), (112, 18599), (124, 18641), (135, 18692), (145, 18719), (156, 18767), (161, 18791), (164, 18809), (165, 18815),

Gene: Tangent_30 Start: 22736, Stop: 23170, Start Num: 61

Candidate Starts for Tangent_30:

(43, 22706), (Start: 61 @22736 has 101 MA's), (82, 22820), (104, 22895), (114, 22919), (131, 22997), (158, 23090), (170, 23141),

Gene: Tangerine_29 Start: 21738, Stop: 22172, Start Num: 61

Candidate Starts for Tangerine_29:

(Start: 54 @21729 has 26 MA's), (Start: 61 @21738 has 101 MA's), (82, 21822), (104, 21897), (131, 21999), (140, 22020), (155, 22077), (158, 22092), (170, 22143),

Gene: Taptic_19 Start: 18137, Stop: 18547, Start Num: 55

Candidate Starts for Taptic_19:

(Start: 55 @18137 has 8 MA's), (78, 18212), (87, 18257), (88, 18263), (102, 18305), (112, 18329), (117, 18350), (142, 18452), (156, 18497),

Gene: Tardus_31 Start: 22245, Stop: 22676, Start Num: 61

Candidate Starts for Tardus_31:

(45, 22218), (Start: 61 @22245 has 101 MA's), (82, 22329), (89, 22374), (104, 22404), (131, 22506), (134, 22512), (140, 22527), (155, 22584), (158, 22599), (169, 22647), (170, 22650),

Gene: Telesworld_24 Start: 18380, Stop: 18802, Start Num: 49

Candidate Starts for Telesworld_24:

(31, 18314), (Start: 49 @18380 has 256 MA's), (86, 18503), (87, 18509), (88, 18515), (112, 18578), (124, 18620), (145, 18698), (156, 18746), (161, 18770), (164, 18788), (165, 18794),

Gene: Thing3_29 Start: 23229, Stop: 23663, Start Num: 61

Candidate Starts for Thing3_29:

(43, 23199), (Start: 61 @23229 has 101 MA's), (82, 23313), (104, 23388), (114, 23412), (131, 23490), (140, 23511), (158, 23583), (170, 23634),

Gene: Thonko_24 Start: 17161, Stop: 17574, Start Num: 54

Candidate Starts for Thonko_24:

(7, 16762), (8, 16798), (22, 17026), (Start: 54 @17161 has 26 MA's), (87, 17281), (88, 17287), (92, 17311), (93, 17314), (124, 17392), (151, 17485),

Gene: Thora_25 Start: 18685, Stop: 19107, Start Num: 49

Candidate Starts for Thora_25:

(31, 18619), (Start: 49 @18685 has 256 MA's), (86, 18808), (87, 18814), (88, 18820), (112, 18883), (124, 18925), (145, 19003), (156, 19051), (161, 19075), (164, 19093), (165, 19099),

Gene: ThreeOh3D2_25 Start: 18684, Stop: 19106, Start Num: 49

Candidate Starts for ThreeOh3D2_25:

(31, 18618), (Start: 49 @18684 has 256 MA's), (86, 18807), (87, 18813), (88, 18819), (112, 18882), (124, 18924), (145, 19002), (156, 19050), (161, 19074), (164, 19092), (165, 19098),

Gene: Thunderbird_24 Start: 18384, Stop: 18806, Start Num: 49

Candidate Starts for Thunderbird_24:

(31, 18318), (Start: 49 @18384 has 256 MA's), (86, 18507), (87, 18513), (88, 18519), (112, 18582), (124, 18624), (145, 18702), (156, 18750), (161, 18774), (164, 18792), (165, 18798),

Gene: Tiamoceli_28 Start: 20458, Stop: 20889, Start Num: 61

Candidate Starts for Tiamoceli_28:

(20, 20290), (Start: 61 @20458 has 101 MA's), (82, 20542), (104, 20617), (137, 20737), (144, 20752), (158, 20812), (160, 20821), (169, 20860), (170, 20863),

Gene: TillyBobJoe_26 Start: 17354, Stop: 17797, Start Num: 61

Candidate Starts for TillyBobJoe_26:

(Start: 61 @17354 has 101 MA's), (131, 17615), (170, 17771),

Gene: Timmi_24 Start: 18395, Stop: 18817, Start Num: 49

Candidate Starts for Timmi_24:

(31, 18329), (Start: 49 @18395 has 256 MA's), (86, 18518), (87, 18524), (88, 18530), (112, 18593), (124, 18635), (145, 18713), (156, 18761), (161, 18785), (164, 18803), (165, 18809),

Gene: Tinciduntolum_28 Start: 20953, Stop: 21381, Start Num: 49

Candidate Starts for Tinciduntolum_28:

(40, 20926), (Start: 49 @20953 has 256 MA's), (Start: 58 @20968 has 16 MA's), (87, 21085), (88, 21091), (93, 21118), (105, 21139), (112, 21157), (145, 21277), (146, 21283), (160, 21346), (165, 21373),

Gene: Togo_26 Start: 17570, Stop: 18013, Start Num: 61

Candidate Starts for Togo_26:

(Start: 61 @17570 has 101 MA's), (131, 17831), (170, 17987),

Gene: TomBombadil_25 Start: 18680, Stop: 19102, Start Num: 49

Candidate Starts for TomBombadil_25:

(31, 18614), (Start: 49 @18680 has 256 MA's), (86, 18803), (87, 18809), (88, 18815), (112, 18878), (124, 18920), (145, 18998), (156, 19046), (161, 19070), (164, 19088), (165, 19094),

Gene: Tomlarah_25 Start: 18670, Stop: 19092, Start Num: 49

Candidate Starts for Tomlarah_25:

(31, 18604), (Start: 49 @18670 has 256 MA's), (86, 18793), (87, 18799), (88, 18805), (112, 18868), (124, 18910), (145, 18988), (156, 19036), (161, 19060), (164, 19078), (165, 19084),

Gene: Toni_24 Start: 18379, Stop: 18801, Start Num: 49

Candidate Starts for Toni_24:

(31, 18313), (Start: 49 @18379 has 256 MA's), (86, 18502), (87, 18508), (88, 18514), (112, 18577), (124, 18619), (145, 18697), (156, 18745), (161, 18769), (164, 18787), (165, 18793),

Gene: TooFast2Furius_26 Start: 18916, Stop: 19338, Start Num: 49

Candidate Starts for TooFast2Furius_26:

(31, 18850), (Start: 49 @18916 has 256 MA's), (86, 19039), (87, 19045), (88, 19051), (112, 19114), (124, 19156), (145, 19234), (156, 19282), (161, 19306), (164, 19324), (165, 19330),

Gene: Tooj_25 Start: 18681, Stop: 19103, Start Num: 49

Candidate Starts for Tooj_25:

(31, 18615), (Start: 49 @18681 has 256 MA's), (86, 18804), (87, 18810), (88, 18816), (112, 18879), (124, 18921), (145, 18999), (156, 19047), (161, 19071), (164, 19089), (165, 19095),

Gene: TraderJ_24 Start: 18607, Stop: 19017, Start Num: 50

Candidate Starts for TraderJ_24:

(Start: 50 @18607 has 22 MA's), (94, 18769), (102, 18781), (145, 18925),

Gene: Tres_27 Start: 20834, Stop: 21262, Start Num: 49

Candidate Starts for Tres_27:

(40, 20807), (Start: 49 @20834 has 256 MA's), (Start: 58 @20849 has 16 MA's), (87, 20966), (88, 20972), (93, 20999), (105, 21020), (112, 21038), (145, 21158), (146, 21164), (160, 21227), (165, 21254),

Gene: Triad_25 Start: 17550, Stop: 17972, Start Num: 49

Candidate Starts for Triad_25:

(31, 17484), (Start: 49 @17550 has 256 MA's), (86, 17673), (87, 17679), (88, 17685), (112, 17748), (124, 17790), (145, 17868), (156, 17916), (161, 17940), (164, 17958), (165, 17964),

Gene: True_24 Start: 18383, Stop: 18805, Start Num: 49

Candidate Starts for True_24:

(31, 18317), (Start: 49 @18383 has 256 MA's), (86, 18506), (87, 18512), (88, 18518), (112, 18581), (124, 18623), (145, 18701), (156, 18749), (161, 18773), (164, 18791), (165, 18797),

Gene: Trypo_25 Start: 18672, Stop: 19094, Start Num: 48

Candidate Starts for Trypo_25:

(Start: 48 @18672 has 66 MA's), (86, 18795), (87, 18801), (88, 18807), (112, 18870), (124, 18912), (145, 18990), (156, 19038), (161, 19062), (164, 19080), (165, 19086),

Gene: TurkishDelight_25 Start: 21435, Stop: 21812, Start Num: 59

Candidate Starts for TurkishDelight_25:

(15, 21273), (27, 21360), (39, 21411), (Start: 59 @21435 has 4 MA's), (Start: 61 @21441 has 101 MA's), (62, 21447), (64, 21453), (85, 21534), (91, 21570), (95, 21582), (102, 21594), (120, 21648), (145, 21735), (149, 21747), (156, 21783),

Gene: Twister6_28 Start: 17997, Stop: 18440, Start Num: 61

Candidate Starts for Twister6_28:

(Start: 61 @17997 has 101 MA's), (131, 18258), (170, 18414),

Gene: Twonlo_25 Start: 19076, Stop: 19507, Start Num: 61

Candidate Starts for Twonlo_25:

(Start: 61 @19076 has 101 MA's), (82, 19160), (104, 19235), (137, 19355), (144, 19370), (158, 19430), (160, 19439), (169, 19478), (170, 19481),

Gene: Tycho_29 Start: 21827, Stop: 22261, Start Num: 61

Candidate Starts for Tycho_29:

(Start: 54 @21818 has 26 MA's), (Start: 61 @21827 has 101 MA's), (82, 21911), (104, 21986), (131, 22088), (140, 22109), (155, 22166), (158, 22181), (170, 22232),

Gene: TyrionL_24 Start: 18236, Stop: 18658, Start Num: 48

Candidate Starts for TyrionL_24:

(Start: 48 @18236 has 66 MA's), (86, 18359), (87, 18365), (88, 18371), (112, 18434), (124, 18476), (145, 18554), (156, 18602), (161, 18626), (164, 18644), (165, 18650),

Gene: UAch1_25 Start: 18692, Stop: 19114, Start Num: 49

Candidate Starts for UAch1_25:

(31, 18626), (Start: 49 @18692 has 256 MA's), (86, 18815), (87, 18821), (88, 18827), (112, 18890), (124, 18932), (135, 18983), (145, 19010), (156, 19058), (161, 19082), (164, 19100), (165, 19106),

Gene: UncleHowie_25 Start: 18382, Stop: 18804, Start Num: 49

Candidate Starts for UncleHowie_25:

(31, 18316), (Start: 49 @18382 has 256 MA's), (86, 18505), (87, 18511), (88, 18517), (112, 18580), (124, 18622), (145, 18700), (156, 18748), (161, 18772), (164, 18790), (165, 18796),

Gene: Usavi_25 Start: 18683, Stop: 19105, Start Num: 49

Candidate Starts for Usavi_25:

(31, 18617), (Start: 49 @18683 has 256 MA's), (86, 18806), (87, 18812), (88, 18818), (112, 18881), (124, 18923), (135, 18974), (145, 19001), (156, 19049), (161, 19073), (164, 19091), (165, 19097),

Gene: Vaishali24_24 Start: 18341, Stop: 18763, Start Num: 48

Candidate Starts for Vaishali24_24:

(Start: 48 @18341 has 66 MA's), (86, 18464), (87, 18470), (88, 18476), (112, 18539), (124, 18581), (145, 18659), (156, 18707), (161, 18731), (164, 18749), (165, 18755),

Gene: Valary_29 Start: 18503, Stop: 18946, Start Num: 61

Candidate Starts for Valary_29:

(Start: 61 @18503 has 101 MA's), (131, 18764), (170, 18920),

Gene: Valjean_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for Valjean_25:

(31, 18609), (Start: 49 @18675 has 256 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: VanDeWege_29 Start: 18378, Stop: 18821, Start Num: 61

Candidate Starts for VanDeWege_29:

(Start: 61 @18378 has 101 MA's), (131, 18639), (170, 18795),

Gene: Vaticameos_25 Start: 18373, Stop: 18795, Start Num: 49

Candidate Starts for Vaticameos_25:

(31, 18307), (Start: 49 @18373 has 256 MA's), (86, 18496), (87, 18502), (88, 18508), (112, 18571), (124, 18613), (145, 18691), (156, 18739), (161, 18763), (164, 18781), (165, 18787),

Gene: Veritas_24 Start: 18242, Stop: 18664, Start Num: 48

Candidate Starts for Veritas_24:

(Start: 48 @18242 has 66 MA's), (76, 18314), (86, 18365), (87, 18371), (88, 18377), (112, 18440), (124, 18482), (145, 18560), (156, 18608), (161, 18632), (164, 18650), (165, 18656),

Gene: Verity_29 Start: 23097, Stop: 23528, Start Num: 61

Candidate Starts for Verity_29:

(45, 23070), (Start: 61 @23097 has 101 MA's), (82, 23181), (88, 23211), (89, 23226), (104, 23256), (113, 23277), (131, 23358), (134, 23364), (144, 23391), (155, 23436), (158, 23451), (169, 23499),

(170, 23502),

Gene: ViaConlectus_30 Start: 21588, Stop: 22019, Start Num: 61

Candidate Starts for ViaConlectus_30:

(35, 21528), (45, 21561), (Start: 61 @21588 has 101 MA's), (89, 21717), (104, 21747), (131, 21849), (134, 21855), (140, 21870), (155, 21927), (158, 21942), (169, 21990), (170, 21993),

Gene: Vic9_00027 Start: 21282, Stop: 21710, Start Num: 49

Candidate Starts for Vic9_00027:

(40, 21255), (Start: 49 @21282 has 256 MA's), (Start: 58 @21297 has 16 MA's), (88, 21420), (93, 21447), (105, 21468), (112, 21486), (124, 21528), (145, 21606), (146, 21612), (160, 21675), (165, 21702),

Gene: Vincenzo_24 Start: 20089, Stop: 20502, Start Num: 54

Candidate Starts for Vincenzo_24:

(37, 20038), (Start: 54 @20089 has 26 MA's), (87, 20209), (88, 20215), (116, 20290), (124, 20320), (142, 20395), (151, 20413), (165, 20494),

Gene: VioletZ_23 Start: 19392, Stop: 19805, Start Num: 54

Candidate Starts for VioletZ_23:

(Start: 54 @19392 has 26 MA's), (86, 19506), (87, 19512), (88, 19518), (99, 19554), (116, 19593), (118, 19605), (124, 19623), (160, 19770), (165, 19797),

Gene: Virapocalypse_25 Start: 18666, Stop: 19088, Start Num: 49

Candidate Starts for Virapocalypse_25:

(31, 18600), (Start: 49 @18666 has 256 MA's), (86, 18789), (87, 18795), (88, 18801), (112, 18864), (124, 18906), (145, 18984), (156, 19032), (161, 19056), (164, 19074), (165, 19080),

Gene: Virgeve_24 Start: 18408, Stop: 18830, Start Num: 48

Candidate Starts for Virgeve_24:

(Start: 48 @18408 has 66 MA's), (76, 18480), (86, 18531), (87, 18537), (88, 18543), (112, 18606), (124, 18648), (145, 18726), (156, 18774), (161, 18798), (164, 18816), (165, 18822),

Gene: Vista_25 Start: 18680, Stop: 19102, Start Num: 49

Candidate Starts for Vista_25:

(31, 18614), (Start: 49 @18680 has 256 MA's), (86, 18803), (87, 18809), (88, 18815), (112, 18878), (124, 18920), (135, 18971), (145, 18998), (156, 19046), (161, 19070), (164, 19088), (165, 19094),

Gene: Vivaldi_25 Start: 18710, Stop: 19132, Start Num: 49

Candidate Starts for Vivaldi_25:

(31, 18644), (Start: 49 @18710 has 256 MA's), (86, 18833), (87, 18839), (88, 18845), (112, 18908), (124, 18950), (145, 19028), (156, 19076), (161, 19100), (164, 19118), (165, 19124),

Gene: Vivi2_32 Start: 23909, Stop: 24343, Start Num: 61

Candidate Starts for Vivi2_32:

(43, 23879), (Start: 61 @23909 has 101 MA's), (82, 23993), (104, 24068), (114, 24092), (131, 24170), (140, 24191), (158, 24263), (170, 24314),

Gene: Vortex_25 Start: 18390, Stop: 18812, Start Num: 49

Candidate Starts for Vortex_25:

(31, 18324), (Start: 49 @18390 has 256 MA's), (86, 18513), (87, 18519), (88, 18525), (112, 18588), (124, 18630), (145, 18708), (156, 18756), (161, 18780), (164, 18798), (165, 18804),

Gene: Waleliano_23 Start: 19331, Stop: 19744, Start Num: 54

Candidate Starts for Waleliano_23:

(Start: 54 @19331 has 26 MA's), (86, 19445), (87, 19451), (88, 19457), (99, 19493), (116, 19532), (118, 19544), (124, 19562), (145, 19640), (160, 19709), (161, 19712), (165, 19736),

Gene: Wallhey_24 Start: 18240, Stop: 18662, Start Num: 48

Candidate Starts for Wallhey_24:

(Start: 48 @18240 has 66 MA's), (86, 18363), (87, 18369), (88, 18375), (112, 18438), (124, 18480), (145, 18558), (156, 18606), (161, 18630), (164, 18648), (165, 18654),

Gene: Waterdiva_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for Waterdiva_25:

(31, 18609), (Start: 49 @18675 has 256 MA's), (86, 18798), (87, 18804), (88, 18810), (112, 18873), (124, 18915), (145, 18993), (156, 19041), (161, 19065), (164, 19083), (165, 19089),

Gene: Weher20_25 Start: 18668, Stop: 19090, Start Num: 48

Candidate Starts for Weher20_25:

(Start: 48 @18668 has 66 MA's), (86, 18791), (87, 18797), (88, 18803), (112, 18866), (124, 18908), (145, 18986), (156, 19034), (161, 19058), (164, 19076), (165, 19082),

Gene: West99_27 Start: 20954, Stop: 21382, Start Num: 49

Candidate Starts for West99_27:

(40, 20927), (Start: 49 @20954 has 256 MA's), (Start: 58 @20969 has 16 MA's), (87, 21086), (88, 21092), (93, 21119), (105, 21140), (112, 21158), (145, 21278), (146, 21284), (160, 21347), (165, 21374),

Gene: Windsor_24 Start: 18360, Stop: 18782, Start Num: 48

Candidate Starts for Windsor_24:

(Start: 48 @18360 has 66 MA's), (76, 18432), (86, 18483), (87, 18489), (88, 18495), (112, 18558), (124, 18600), (145, 18678), (156, 18726), (161, 18750), (164, 18768), (165, 18774),

Gene: Wizard_26 Start: 17704, Stop: 18147, Start Num: 61

Candidate Starts for Wizard_26:

(Start: 61 @17704 has 101 MA's), (131, 17965), (170, 18121),

Gene: Wooper_24 Start: 18613, Stop: 19023, Start Num: 50

Candidate Starts for Wooper_24:

(Start: 50 @18613 has 22 MA's), (94, 18775), (102, 18787), (145, 18931),

Gene: Xavier_24 Start: 18393, Stop: 18815, Start Num: 49

Candidate Starts for Xavier_24:

(31, 18327), (Start: 49 @18393 has 256 MA's), (86, 18516), (87, 18522), (88, 18528), (112, 18591), (124, 18633), (145, 18711), (156, 18759), (161, 18783), (164, 18801), (165, 18807),

Gene: Xincheng_22 Start: 18792, Stop: 19205, Start Num: 54

Candidate Starts for Xincheng_22:

(Start: 54 @18792 has 26 MA's), (86, 18906), (87, 18912), (88, 18918), (99, 18954), (116, 18993), (118, 19005), (124, 19023), (135, 19074), (145, 19101), (160, 19170), (161, 19173), (165, 19197),

Gene: Xkcd426_25 Start: 26648, Stop: 27025, Start Num: 59

Candidate Starts for Xkcd426_25:

(36, 26606), (Start: 59 @26648 has 4 MA's), (62, 26660), (85, 26747), (103, 26807), (124, 26867), (133, 26918), (149, 26960), (156, 26996),

Gene: YDN12_20 Start: 19174, Stop: 19551, Start Num: 59

Candidate Starts for YDN12_20:

(15, 19003), (Start: 59 @19174 has 4 MA's), (62, 19186), (67, 19207), (75, 19228), (85, 19273), (116, 19363), (124, 19393), (133, 19444), (138, 19459), (149, 19486), (151, 19489),

Gene: Yago84_22 Start: 17516, Stop: 17929, Start Num: 50

Candidate Starts for Yago84_22:

(Start: 50 @17516 has 22 MA's), (74, 17585), (88, 17651), (105, 17699), (133, 17807), (160, 17906),

Gene: Yeshua_24 Start: 18590, Stop: 19000, Start Num: 50

Candidate Starts for Yeshua_24:

(Start: 50 @18590 has 22 MA's), (94, 18752), (102, 18764), (145, 18908),

Gene: YorkOnyx_30 Start: 22083, Stop: 22517, Start Num: 52

Candidate Starts for YorkOnyx_30:

(Start: 52 @22083 has 27 MA's), (77, 22137), (82, 22167), (108, 22257), (113, 22263), (131, 22344), (140, 22365), (158, 22437), (170, 22488),

Gene: Yoshand_25 Start: 18682, Stop: 19104, Start Num: 49

Candidate Starts for Yoshand_25:

(31, 18616), (Start: 49 @18682 has 256 MA's), (86, 18805), (87, 18811), (88, 18817), (112, 18880), (124, 18922), (145, 19000), (156, 19048), (161, 19072), (164, 19090), (165, 19096),

Gene: YouGoGlencoco_25 Start: 18671, Stop: 19093, Start Num: 49

Candidate Starts for YouGoGlencoco_25:

(31, 18605), (Start: 49 @18671 has 256 MA's), (86, 18794), (87, 18800), (88, 18806), (112, 18869), (124, 18911), (145, 18989), (156, 19037), (161, 19061), (164, 19079), (165, 19085),

Gene: YungMoney_28 Start: 19070, Stop: 19513, Start Num: 61

Candidate Starts for YungMoney_28:

(Start: 61 @19070 has 101 MA's), (170, 19487),

Gene: Zaider_26 Start: 18907, Stop: 19329, Start Num: 49

Candidate Starts for Zaider_26:

(31, 18841), (Start: 49 @18907 has 256 MA's), (86, 19030), (87, 19036), (88, 19042), (112, 19105), (124, 19147), (145, 19225), (156, 19273), (161, 19297), (164, 19315), (165, 19321),

Gene: Zelda_25 Start: 18676, Stop: 19098, Start Num: 49

Candidate Starts for Zelda_25:

(31, 18610), (Start: 49 @18676 has 256 MA's), (86, 18799), (87, 18805), (88, 18811), (112, 18874), (124, 18916), (145, 18994), (156, 19042), (161, 19066), (164, 19084), (165, 19090),

Gene: Zemanar_24 Start: 19331, Stop: 19744, Start Num: 54

Candidate Starts for Zemanar_24:

(Start: 54 @19331 has 26 MA's), (86, 19445), (87, 19451), (88, 19457), (99, 19493), (116, 19532), (118, 19544), (124, 19562), (145, 19640), (160, 19709), (161, 19712), (165, 19736),

Gene: Zenteno07_29 Start: 19112, Stop: 19528, Start Num: 52

Candidate Starts for Zenteno07_29:

(Start: 52 @19112 has 27 MA's), (87, 19235), (92, 19265), (93, 19268), (145, 19424), (151, 19439), (165, 19520),

Gene: Zipp_29 Start: 22994, Stop: 23425, Start Num: 61

Candidate Starts for Zipp_29:

(45, 22967), (Start: 61 @22994 has 101 MA's), (88, 23108), (89, 23123), (104, 23153), (113, 23174), (131, 23255), (134, 23261), (144, 23288), (155, 23333), (158, 23348), (169, 23396), (170, 23399),

Gene: Zitch_31 Start: 20868, Stop: 21299, Start Num: 61

Candidate Starts for Zitch_31:

(45, 20841), (Start: 61 @20868 has 101 MA's), (82, 20952), (89, 20997), (104, 21027), (113, 21048), (131, 21129), (134, 21135), (140, 21150), (155, 21207), (158, 21222), (169, 21270), (170, 21273),

Gene: Zonia_25 Start: 18690, Stop: 19112, Start Num: 48

Candidate Starts for Zonia_25:

(Start: 48 @18690 has 66 MA's), (86, 18813), (87, 18819), (88, 18825), (112, 18888), (124, 18930), (145, 19008), (156, 19056), (161, 19080), (164, 19098), (165, 19104),

Gene: Zooman_79 Start: 48365, Stop: 48775, Start Num: 46

Candidate Starts for Zooman_79:

(Start: 46 @48365 has 2 MA's), (56, 48386), (67, 48425), (77, 48452), (78, 48461), (80, 48479), (100, 48551), (142, 48692), (152, 48713),

Gene: Zuko_15 Start: 11717, Stop: 12112, Start Num: 63

Candidate Starts for Zuko_15:

(Start: 63 @11717 has 2 MA's), (71, 11747), (83, 11795), (85, 11804), (130, 11963), (165, 12098),

Gene: phiAsp2_21 Start: 13673, Stop: 14086, Start Num: 58

Candidate Starts for phiAsp2_21:

(Start: 58 @13673 has 16 MA's), (72, 13724), (79, 13754), (88, 13796), (98, 13832), (107, 13856), (109, 13859), (116, 13871), (139, 13964), (148, 13994),