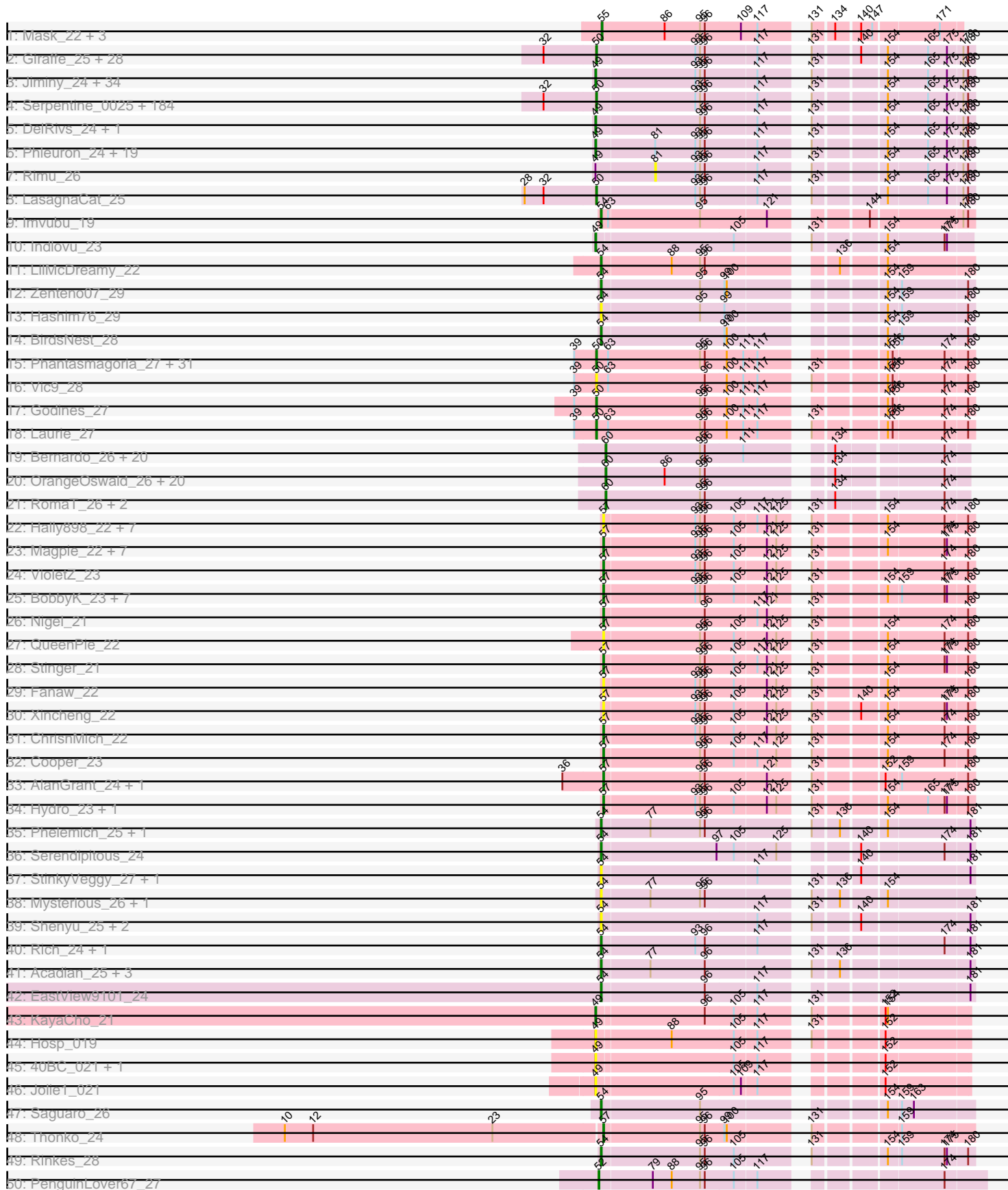
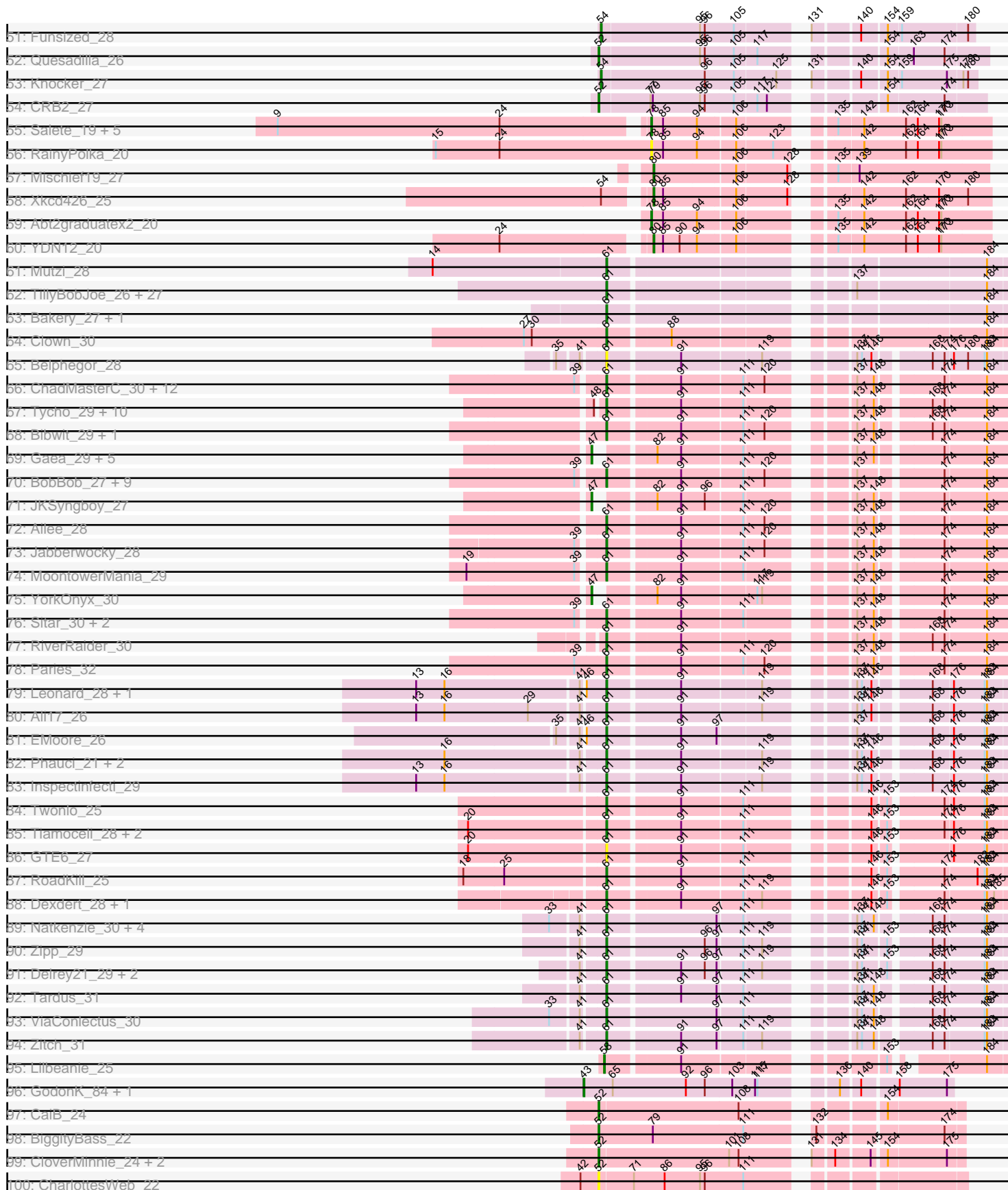


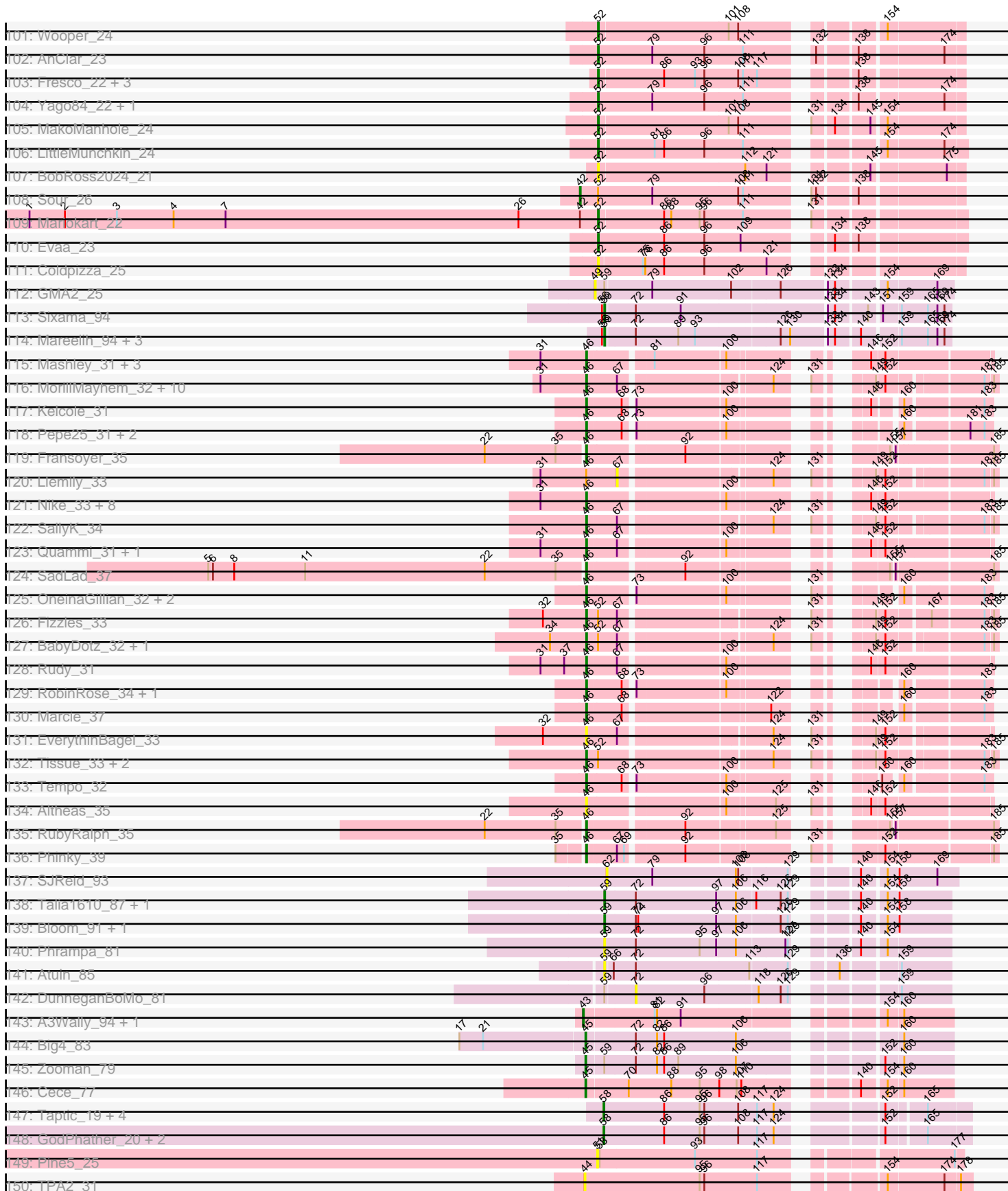
Pham 193622



Pham 193622



Pham 193622



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 193622 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193622 has 662 members, 88 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, Kikipoo_25, Cosmolli16_24, Pipsqueak_25, Mana_24, Scoot17C_25, LostAndPhound_24, HighStump_24, Orion_25, Megatron_25, Grand2040_24, Chorkpop_25, DoesntMatter_25, Kahve_24, LeiMonet_25, 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, Derpp_24, MrPhizzler_24, Oline_24, Maskar_24, TyrionL_24, Zonia_25, Hocus_24, Trypo_25, Etaye_25, Doddsville_25, Duggie_24, JakeO_24, JDog_24, Ashraf_24, ImtiyazSitla_24, Durga_25, Swiphy_26, GeneCoco_25, Dati_25, DaddyDaniels_25, Longacauda_24, Wallhey_24, Schueller_25, Kwksand96_24, Brilliant_25, Struggle_24, Weher20_25, Vaishali24_24, PhatLouie_25, Melc17_25, Labeouficaum_24, CharlieGBrown_24, Pinkman_24
- Track 4 : Serpentine_0025, Haimas_25, Banjo_24, Mikota_25, Nacho_0025, Murdoc_25, Chunky_25, Adriana_25, Nicole21_25, Kimbrough_25, Lumine_24, Maru_24, Burr_24, Selr12_25, Inchworm_25, OliverWalter_25, Valjean_25, Matalotodo_25, KingVeVeVe_25, UncleHowie_25, Olive_25, Iridoclysis_25, Gyarad_0025, Zelda_25, EmpTee_25, Mecca_24, Eugenia_25, Mulan_24, Prickles_25, FluffyNinja_25, Thora_25, LuckyMarjie_24, Orwigg_25, Altwerkus_24, DirtJuice_25, Basato_26, Frankicide_25, Boehler_25, Thunderbird_24, KLucky39_25, Cher_24, Buckeye_25, Gwilliam_25, Skippy_25, SDcharge11_25, Antonia_24, Gareth_24, Megamind20_25, Newman_25, Kwadwo_24, Simielle_24, Squid_25, Daffy_25, Cornobble_24, Freya_24, ABU_25, Numberten_25, Hamish_25, Andre_25, ThreeOh3D2_25, BlackStallion_25, Yoshand_25, Mcshane_24, Schadenfreude_24, Haleema_24, Scrick_25, MitKao_25, Swish_25, Bishoperium_24, Mutante_24, Serendipity_25, Sigman_25, Roy17_25, Lulwa_25, CheetO_25, Emiris_25, Spartan300_25, Cobra_25, Bluephacebaby_24, Dingo_25, Xavier_24, LeeLot_25, KlimbOn_25, BlueHusk_25, PhrodoBaggins_24, Suffolk_25, PinheadLarry_25, Beaglebox_24, Jillium_24, Sophia_24, Lopsy_24, Surely_25, Slatt_25, Toni_24, Mosaic_24, ProfessorX_25, Solosis_24, Virapocalypse_25, Crownjwl_25, Roliet_25, Harvey_25, Plmatters_25, Pherdinand_25, Telesworld_24, SassyCat97_24, Badfish_25, Hertubise_25, QueenBeane_25, Childish_24, Fozzie_24, Omniscient_25, MiniBoss_25, HSavage_25, Ricotta_24, Held_25, JangoPhett_25, Lego3393_25, Horchata_25, Lulumae_24, Pops_25, Nyala_24, Colbert_25, Phareon_25, AbsoluteMadLad_24, Inverness_25, Fang_25, SilverBell_25, YouGoGlencoco_25, Quisquiliae_25, Waterdiva_25, LemonSlice_25, Charles1_25,

DonSanchon_24, Legolas_24, Cannibal_25, Gophee_25, Eremos_25, Morgushi_25, Dice_24, JacAttac_25, Carthage_23, Manad_24, Riggan_25, Puhltonio_25, Dione_24, Sheila_25, Mesh1_25, Samaymay_25, Timmi_24, True_24, Katniss_25, Daka_25, Squiggle_25, TomBombadil_25, AltPhacts_25, Phipps_25, Kloppinator_25, Craff_25, PhatCats2014_25, Soto_25, Zaider_26, Piglet_0024, Roscoe_26, CamL_25, HenryJackson_24, Phunky_25, Phamished_25, Fringe_25, Vaticameos_25, Olak_24, Robyn_24, Orfeu_24, Podrick_25, FriarPreacher_25, ShiVal_25, CampRoach_25, Tooj_25, RedMaple_24, Pacifista_24, Anderson_25, Aelin_24, Jiraiya_25, Tomlarah_25, Vortex_25, Vivaldi_25

- Track 5 : DelRivs_24, Soile_25
- Track 6 : Phleuron_24, BatteryCK_24, Phergie_24, Magic8_25, OSmaximus_25, Veritas_24, Coletti_24, Kailash_25, Chute_24, MelsMeow_24, Windsor_24, Keitherie_25, Virgeve_24, Mag7_24, PhrankReynolds_24, Apizium_24, PhenghisKhan_24, MichaelPhcott_24, Hartsy_25, Chaelin_24
- Track 7 : Rimu_26
- Track 8 : LasagnaCat_25
- Track 9 : Imvubu_19
- Track 10 : Indlovu_23
- Track 11 : LilMcDreamy_22
- Track 12 : Zenteno07_29
- Track 13 : Hashim76_29
- Track 14 : BirdsNest_28
- 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_27, Calamitous_27, Opia_27, Tinciduntolum_28, Tres_27, MasterPo_27, Lars_27, Bananafish_27, Eaglehorse_27, Boyle_27, Arbiter_27, Hedgerow_27, Holeinone_27, Rosebush_27, Blocker23_27, Ares_27, Qyrzula_25, Lephleur_27, FrenchFry_27, ItsyBitsy1_27, Rhinoforte_27
- Track 16 : Vic9_28
- Track 17 : Godines_27
- Track 18 : Laurie_27
- Track 19 : Bernardo_26, Baloo_26, Briakila_26, Ben11_25, MmasiCarm_26, GlenHope_27, Audrey_26, Pipefish_26, Phlyer_26, Tydolla_26, SlippinJimmy_26, Marley1013_26, Heathcliff_26, Yahalom_26, Kronus_25, Halfpint_25, Gadjet_27, Gervas_26, Morty007_26, Mortcellus_25, Akoma_26
- Track 20 : OrangeOswald_26, LestyG_26, Yinz_26, RagingRooster_26, ChaChing_26, Obutu_26, Athena_27, Neos5_26, Nozo_26, Corofin_26, Phayeta_26, Rita1961_26, Devonte_26, Philly_25, Chandler_26, Abinghost_26, Deenasa_26, SynergyX_26, Compostia_27, Casbah_25, Kamiyu_26
- Track 21 : RomaT_26, HarveySr_26, Daisy_26
- Track 22 : Hally898_22, Ahwei_22, Antihero_22, Poster_22, Lambano_22, Epah_22, GinPorsche_22, Nanao_22
- Track 23 : Magpie_22, Hangman_23, Waleliano_23, BrownCNA_24, Mithril_23, JaguarMi_23, Zemanar_24, Heath_22
- Track 24 : VioletZ_23
- Track 25 : BobbyK_23, Prince_23, Mudslide_23, RawrgerThat_23, Frederick_23, Fortunato_23, Apex_23, Austelle_24
- Track 26 : Nigel_21
- Track 27 : QueenPie_22
- Track 28 : Stinger_21
- Track 29 : Fanaw_22
- Track 30 : Xincheng_22
- Track 31 : ChrisnMich_22

- Track 32 : Cooper_23
- Track 33 : AlanGrant_24, Vincenzo_24
- Track 34 : Hydro_23, Lolalove_23
- Track 35 : Phelemich_25, Reprobate_25
- Track 36 : Serendipitous_24
- Track 37 : StinkyVeggy_27, KarasumaRum_27
- Track 38 : Mysterious_26, Nehemiah_24
- Track 39 : Shenyu_25, DigitDog_25, Nangang_25
- Track 40 : Rich_24, Bae_24
- Track 41 : Acadian_25, Donny_25, Suigeneris_25, SirJeffery_25
- Track 42 : EastView9101_24
- Track 43 : KayaCho_21
- Track 44 : Hosp_019
- Track 45 : 40BC_021, 39HC_021
- Track 46 : Jolie1_021
- Track 47 : Saguaro_26
- Track 48 : Thonko_24
- Track 49 : Rinkes_28
- Track 50 : PenguinLover67_27
- Track 51 : Funsized_28
- Track 52 : Quesadilla_26
- Track 53 : Knocker_27
- Track 54 : CRB2_27
- Track 55 : Salet_19, Asis_19, BayC_19, BabyGotBac_19, Maih_19, TP1604_19
- Track 56 : RainyPolka_20
- Track 57 : Mischief19_27
- Track 58 : Xkcd426_25
- Track 59 : Abt2graduatex2_20
- Track 60 : YDN12_20
- Track 61 : Mutzi_28
- Track 62 : TillyBobJoe_26, Halo3_27, ClamChowder_28, PinkCoffee_28, 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, Gezellig_27, PullumCavea_26, Fugax_28, CoveyB_29, Nubi_26, Shinji_26, SmokingBunny_26, Fireball_27, Barb_28
- Track 63 : Bakery_27, YungMoney_28
- Track 64 : Clown_30
- Track 65 : Belphegor_28
- Track 66 : ChadMasterC_30, Sanjuju_28, Shivanishola_31, Keitabear_30, Stultus_28, Charming_30, Kamashten_29, Affeca_28, Barsten_30, Kewpiedoll_29, Angelicage_28, Vivi2_32, Thing3_29
- Track 67 : Tycho_29, Baumdotcom_29, Ashertheman_30, Tangerine_29, Gustavo_29, LilHam_27, SchottB_28, Saronaya_29, StorminNorm_29, Kroos_30, Kwobi_30
- Track 68 : Bibwit_29, Sedona_30
- Track 69 : Gaea_29, Derg_27, Ribeye_30, Bizzy_30, Flatwoods_30, Baddon_29
- Track 70 : BobBob_27, Nordenberg_24, Brandonk123_31, Fosterous_28, McKinley_32, Tangent_30, Rofo_30, Geodirt_27, Love_33, Galadriel_30
- Track 71 : JKSyngboy_27
- Track 72 : Ailee_28
- Track 73 : Jabberwocky_28
- Track 74 : MoontowerMania_29
- Track 75 : YorkOnyx_30

- Track 76 : Sitar_30, Lennon_30, Fitzgerald_28
- Track 77 : RiverRaider_30
- Track 78 : Paries_32
- Track 79 : Leonard_28, Phinally_28
- Track 80 : Ali17_26
- Track 81 : EMoore_26
- Track 82 : Phauci_21, MelBins_29, Hans_30
- Track 83 : Inspectinfecti_29
- Track 84 : Twonlo_25
- Track 85 : Tiamoceli_28, EdmundFerry_26, Chickadee_27
- Track 86 : GTE6_27
- Track 87 : RoadKill_25
- Track 88 : Dextert_28, Kwekel_27
- Track 89 : Natkenzie_30, Sampson_30, Scioto_30, Abblin_30, APunk_31
- Track 90 : Zipp_29
- Track 91 : Delrey21_29, DoctorFroggo_29, Verity_29
- Track 92 : Tardus_31
- Track 93 : ViaConlectus_30
- Track 94 : Zitch_31
- Track 95 : Lilbeanie_25
- Track 96 : GodonK_84, Phendrix_82
- Track 97 : CaiB_24
- Track 98 : BiggityBass_22
- Track 99 : CloverMinnie_24, MossRose_24, AnarQue_24
- Track 100 : CharlottesWeb_22
- Track 101 : Wooper_24
- Track 102 : AnClar_23
- Track 103 : Fresco_22, Shatter_22, Axumite_22, Ligma_22
- Track 104 : Yago84_22, Sisko_22
- Track 105 : MakoManhole_24
- Track 106 : LittleMunchkin_24
- Track 107 : BobRoss2024_21
- Track 108 : Sour_26
- Track 109 : Mariokart_22
- Track 110 : Evaa_23
- Track 111 : Coldpizza_25
- Track 112 : GMA2_25
- Track 113 : Sixama_94
- Track 114 : Mareelih_94, BlueNGold_95, Forza_96, Boopy_96
- Track 115 : Mashley_31, Gazebo_32, Blab_31, AluminumJesus_31
- Track 116 : MorillMayhem_32, Sillytadpoles_34, Phabia_33, Jehoshaphat_35, Teehee_34, Lonelysoil_32, Zhafia_36, Wheelie_32, DonaldDuck_33, Casend_34, Wayne3_34
- Track 117 : Kelcole_31
- Track 118 : Pepe25_31, BirdInFrench_32, Wilca_32
- Track 119 : Fransoyer_35
- Track 120 : Llemily_33
- Track 121 : Nike_33, Zagie_33, Hyperion_32, Grassboy_34, Squash_35, StrawberryJamm_35, Kyva_35, Namago_33, Rowlf_29
- Track 122 : SallyK_34
- Track 123 : Quammi_31, Viceroy_32
- Track 124 : SadLad_37
- Track 125 : OneinaGillian_32, Fregley_33, CandC_31

- Track 126 : Fizzles_33
- Track 127 : BabyDotz_32, Statler_35
- Track 128 : Rudy_31
- Track 129 : RobinRose_34, Romm_34
- Track 130 : Marcie_37
- Track 131 : EverythinBagel_33
- Track 132 : Tissue_33, Judebell_35, FrankDeliGuy_31
- Track 133 : Tempo_32
- Track 134 : Altheas_35
- Track 135 : RubyRalph_35
- Track 136 : Phinky_39
- Track 137 : SJReid_93
- Track 138 : Talia1610_87, Patbob_88
- Track 139 : Bloom_91, Racecar_88
- Track 140 : Phrampa_81
- Track 141 : Atuin_85
- Track 142 : DunneganBoMo_81
- Track 143 : A3Wally_94, PauloDiaboli_94
- Track 144 : Big4_83
- Track 145 : Zooman_79
- Track 146 : Cece_77
- Track 147 : Taptic_19, PR_19, Megabear_19, Cepens_19, D12_19
- Track 148 : GodPhather_20, Argie_20, Jeon_19
- Track 149 : Pine5_25
- Track 150 : TPA2_31
- Track 151 : phiAsp2_21
- Track 152 : Kithara_33
- Track 153 : Sunfish_41
- Track 154 : TurkishDelight_25

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

The start number called the most often in the published annotations is 50, it was called in 241 of the 574 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, Anderson_25, Andre_25, Antonia_24, 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, 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, Chorkpop_25, Chunky_25, Cobra_25, Coffee_27, Colbert_25, Cornobble_24, Cosmoli16_24, Craff_25, Crownjwl_25, Daffy_25, Daka_25, Dice_24, Dingo_25, Dione_24, DirtJuice_25, DoesntMatter_25, DonSanchon_24, Eaglehorse_27, Emiris_25, EmpTee_25, Eremos_25, Eugenia_25, Fang_25, Faze9_27, FluffyNinja_25, Fozzie_24, Frankicide_25, FrenchFry_27, Freya_24, FriarPreacher_25, Fringe_25, FugateOSU_24, Gareth_24, Giraffe_25, Glass_27, Godines_27, Gophee_25, Grand2040_24, Gwilliam_25, Gyarad_0025, HSAavage_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, Jillium_24, Jiraiya_25, KLucky39_25, Kahve_24, Kaleb_27, Katniss_25, Kheth_27, Kikipoo_25, Kimbrough_25, KingVeVeVe_25, KlimbOn_25, Kloppinator_25, Kwadwo_24, Lars_27, LasagnaCat_25, Lasso_25, Laurie_27, LeeLot_25, Lego3393_25, Legolas_24, LeiMonet_25, LemonSlice_25, Lephleur_27, LizLemon_27, Lopsy_24, LostAndPhound_24, LuckyMarjie_24, Lulumae_24, Lulwa_25, Lumine_24, MRabcd_24, Mana_24, Manad_24, Maru_24, MasterPo_27, Matalotodo_25, Mcshane_24, Mecca_24, Megamind20_25, Megatron_25, Mesh1_25, 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_25, PG1_25, Pacifista_24, 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, ProfessorX_25, Puhltonio_25, QueenBeane_25, Quisquilliae_25, Qyrzula_25, RedMaple_24, Rhinoforte_27, Ricotta_24, Riggan_25, Robyn_24, Roliet_25, Roscoe_26, Rosebush_27, Roy17_25, SDcharge11_25, Sabella_27, Samaymay_25, SassyCat97_24, Schadenfreude_24, Scoot17C_25, Scrick_25, Selr12_25, Serendipity_25, Serpentine_0025, Sheila_25, ShiVal_25, Sigman_25, SilverBell_25, Simielle_24, Skippy_25, Slatt_25, Solosis_24, Sophia_24, Soto_25, Spartan300_25, Squid_25, Squiggle_25, Suffolk_25, Surely_25, Swish_25, TA17A_27, TallGrassMM_25, Telesworld_24, Thora_25, ThreeOh3D2_25, Thunderbird_24, Timmi_24, Tinciduntolum_28, TomBombadil_25, Tomlarah_25, Toni_24, Tooj_25, Tres_27, True_24, UAch1_25, UncleHowie_25, Usavi_25, Valjean_25, Vaticameos_25, Vic9_28, 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:

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

- 39HC_021, 40BC_021, A3Wally_94, APunk_31, Abblin_30, Abinghost_26, Abt2graduatex2_20, Acadian_25, Affeca_28, Ahwei_22, Ailee_28, Akoma_26, AlanGrant_24, Ali17_26, Altheas_35, AluminumJesus_31, AnClar_23, AnarQue_24, Angelicage_28, Antihero_22, Apex_23, Apizium_24, Argie_20, Arri_29, Ashertheman_30, Ashraf_24, Asis_19, Athena_27, Atuin_85, Audrey_26, Austelle_24, Axumite_22, BabyDotz_32, BabyGotBac_19, Baddon_29, Bae_24, Bakery_27, Baloo_26, Barb_28, Barsten_30, BatteryCK_24, Baumdotcom_29, BayC_19, Belphegor_28, Ben11_25, Bernardo_26, Bibwit_29, Big4_83, BiggityBass_22, BirdInFrench_32, BirdsNest_28, Bizzy_30, Blab_31, Bloom_91, BlueNGold_95, BobBob_27, BobRoss2024_21, BobbyK_23, Boopy_96, Brandonk123_31, Briakila_26, Brilliant_25, BrownCNA_24, CRB2_27, CaiB_24, CandC_31, Casbah_25, Casend_34, Cece_77, Cepens_19, ChaChing_26, ChadMasterC_30, Chaelin_24, Chandler_26, CharlieGBrown_24, CharlottesWeb_22, Charming_30, Chickadee_27, ChrisnMich_22, Chute_24, ClamChowder_28, CloverMinnie_24, Clown_30, Coldpizza_25, Coletti_24, Compostia_27, Cooper_23, Corofin_26, CoveyB_29, D12_19, DaddyDaniels_25, Daisy_26, Danyall_28, Dati_25, Deenasa_26, DelRivs_24, Delrey21_29, Derg_27, Derpp_24, Devonte_26, Dextert_28, DigitDog_25, DoctorFroggo_29, Doddsville_25, DonaldDuck_33,

Donny_25, Dori_22, DuchessDung_23, Duggie_24, DunneganBoMo_81, Durga_25, EMOore_26, EastView9101_24, EdmundFerry_26, Epah_22, Etaye_25, Evaa_23, Evamon_26, EverythinBagel_33, Fanaw_22, Fireball_27, Fitzgerald_28, Fizzles_33, Flatwoods_30, Fortunato_23, Forza_96, Fosterous_28, FrankDeliGuy_31, Fransoyer_35, Frederick_23, Fregley_33, Fresco_22, Fugax_28, Funsized_28, GMA2_25, GTE6_27, Gadget_27, Gaea_29, Galadriel_30, Gazebo_32, GeneCoco_25, Geodirt_27, Gervas_26, Gezellig_27, GinPorsche_22, GlenHope_27, GodPhather_20, GodonK_84, Grassboy_34, Gustavo_29, Halfpint_25, Hally898_22, Halo3_27, Hangman_23, Hans_30, Hartsy_25, HarveySr_26, Hashim76_29, Heath_22, Heathcliff_26, Hocus_24, Hosp_019, Hydro_23, Hyperion_32, ImtiyazSitla_24, Imvubu_19, Indlovu_23, Inspectinfecti_29, JDog_24, JKSyngboy_27, Jabberwocky_28, JaguarMi_23, JakeO_24, Jambalaya_26, Jehoshaphat_35, Jeon_19, Jiminy_24, Jolie1_021, Judebell_35, Kailash_25, Kamashten_29, Kamiyu_26, KarasumaRum_27, KayaCho_21, Keitabear_30, Keitherie_25, Kelcole_31, Kewpiedoll_29, KimmyK_28, Kithara_33, Knocker_27, Kronus_25, Kroos_30, Kwekel_27, Kwksand96_24, Kwobi_30, Kyva_35, Labeouficaum_24, Lambano_22, Lennon_30, Leonard_28, LestyG_26, Ligma_22, LilHam_27, LilMcDreamy_22, Lilbeanie_25, LittleMunchkin_24, Llemily_33, Lolalove_23, Lonelysoil_32, Longacauda_24, Love_33, Mag7_24, Magic8_25, Magpie_22, Maih_19, MakoManhole_24, Mao1_21, Marcie_37, Mareelih_94, Mariokart_22, Marley1013_26, Mashley_31, Mask_22, Maskar_24, McKinley_32, Megabear_19, MelBins_29, Melc17_25, MelsMeow_24, MichaelPhcott_24, Mischief19_27, Mithril_23, MmasiCarm_26, MoontowerMania_29, MorillMayhem_32, Mortcellus_25, Morty007_26, MossRose_24, MrPhizzler_24, Mudslide_23, Mutzi_28, Mysterious_26, Namago_33, Nanao_22, Nangang_25, Natkenzie_30, Nehemiah_24, Neos5_26, Nigel_21, Nike_33, Nordenberg_24, Nozo_26, Nubi_26, OSmaximus_25, Obutu_26, Oline_24, OneinaGillian_32, OrangeOswald_26, PR_19, Paries_32, Patbob_88, PauloDiaboli_94, PenguinLover67_27, Pepe25_31, Phabia_33, PhatLouie_25, Phauci_21, Phayeta_26, Phelemich_25, Phendrix_82, PhenghisKhan_24, Phergie_24, Philly_25, Phinally_28, Phinky_39, Phleuron_24, Phlop_26, Phlyer_26, Phrampa_81, PhrankReynolds_24, Pine5_25, PinkCoffee_28, Pinkman_24, Pipefish_26, Portcullis_26, Poster_22, Prince_23, PullumCavea_26, Quammi_31, QueenPie_22, Quesadilla_26, Racecar_88, RagingRooster_26, RainyPolka_20, RawrgerThat_23, Reprobate_25, Ribeye_30, Rich_24, Rimu_26, Rinkes_28, Rita1961_26, RiverRaider_30, RoadKill_25, RobinRose_34, Rofo_30, RogerDodger_29, RomaT_26, Romm_34, Rowlf_29, RubyRalph_35, Rudy_31, SJReid_93, SadLad_37, Saguaro_26, Salete_19, SallyK_34, Salvador_26, Sampson_30, Sanjuju_28, Saronaya_29, Savbucketdawg_26, SchottB_28, Schueller_25, Scioto_30, Sedona_30, Sejanus_22, Serendipitous_24, Shatter_22, Shenyu_25, Shinji_26, Shivanishola_31, Sillytadpoles_34, SirJeffery_25, Sisko_22, Sitar_30, Sixama_94, SlippinJimmy_26, SmokingBunny_26, Soile_25, Sour_26, Squash_35, Statler_35, Stinger_21, StinkyVeggy_27, StorminNorm_29, StrawberryJamm_35, Struggle_24, Stultus_28, Suigeneris_25, Sunfish_41, Swiphy_26, SynergyX_26, TP1604_19, TPA2_31, Talia1610_87, Tangent_30, Tangerine_29, Taptic_19, Tardus_31, Teehee_34, Tempo_32, Thing3_29, Thonko_24, Tiamoceli_28, TillyBobJoe_26, Tissue_33, Togo_26, Trypo_25, TurkishDelight_25, Twister6_28, Twonlo_25, Tycho_29, Tydolla_26, TyrionL_24, Vaishali24_24, Valary_29, VanDeWege_29, Veritas_24, Verity_29, ViaConlectus_30, Viceroy_32, Vincenzo_24, VioletZ_23, Virgeve_24, Vivi2_32, Waleliano_23, Wallhey_24, Wayne3_34, Weher20_25, Wheelie_32, Wilca_32, Windsor_24, Wizard_26, Wooper_24, Xincheng_22, Xkcd426_25, YDN12_20, Yago84_22, Yahalom_26, Yinz_26, YorkOnyx_30, YungMoney_28, Zagie_33, Zemanar_24, Zenteno07_29, Zhafia_36, Zipp_29, Zitch_31, Zonia_25, Zooman_79, phiAsp2_21,

Summary by start number:

Start 40:

- Found in 1 of 662 (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: Kithara_33 (singleton),

Start 42:

- Found in 3 of 662 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 574
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Sour_26 (DR),

Start 43:

- Found in 4 of 662 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_94 (GD1), GodonK_84 (DK), PauloDiaboli_94 (GD1), Phendrix_82 (DK),

Start 44:

- Found in 1 of 662 (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: TPA2_31 (singleton),

Start 45:

- Found in 3 of 662 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Big4_83 (GD2), Cece_77 (GD3), Zooman_79 (GD2),

Start 46:

- Found in 56 of 662 (8.5%) of genes in pham
- Manual Annotations of this start: 38 of 574
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Altheas_35 (EG), AluminumJesus_31 (EG), BabyDotz_32 (EG), BirdInFrench_32 (EG), Blab_31 (EG), CandC_31 (EG), Casend_34 (EG), DonaldDuck_33 (EG), EverythinBagel_33 (EG), Fizzles_33 (EG), FrankDeliGuy_31 (EG), Fransoyer_35 (EG), Fregley_33 (EG), Gazebo_32 (EG), Grassboy_34 (EG), Hyperion_32 (EG), Jehoshaphat_35 (EG), Judebell_35 (EG), Kelcole_31 (EG), Kyva_35 (EG), Lonelysoil_32 (EG), Marcie_37 (EG), Mashley_31 (EG), MorillMayhem_32 (EG), Namago_33 (EG), Nike_33 (EG), OneinaGillian_32 (EG), Pepe25_31 (EG), Phabia_33 (EG), Phinky_39 (EG), Quammi_31 (EG), RobinRose_34 (EG), Romm_34 (EG), Rowlf_29 (EG), RubyRalph_35 (EG), Rudy_31 (EG), SadLad_37 (EG), SallyK_34 (EG), Sillytadpoles_34 (EG), Squash_35 (EG), Statler_35 (EG), StrawberryJamm_35 (EG), Sunfish_41 (singleton), Teehee_34 (EG), Tempo_32 (EG), Tissue_33 (EG), Viceroy_32 (EG), Wayne3_34 (EG), Wheelie_32 (EG), Wilca_32 (EG), Zagie_33 (EG), Zhafia_36 (EG),

Start 47:

- Found in 8 of 662 (1.2%) of genes in pham
- Manual Annotations of this start: 7 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Baddon_29 (DE1), Bizzy_30 (DE1), Derg_27 (DE1), Flatwoods_30 (DE1), Gaea_29 (DE1), JKSyngboy_27 (DE1), Ribeye_30 (DE1), YorkOnyx_30 (DE1),

Start 49:

- Found in 65 of 662 (9.8%) of genes in pham
- Manual Annotations of this start: 54 of 574
- Called 98.5% of time when present
- Phage (with cluster) where this start called: 39HC_021 (B6), 40BC_021 (B6), Apizium_24 (B1), Ashraf_24 (B1), BatteryCK_24 (B1), Brilliant_25 (B1), Chaelin_24 (B1), CharlieGBrown_24 (B1), Chute_24 (B1), Coletti_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), Etaye_25 (B1), GMA2_25 (DS), GeneCoco_25 (B1), Hartsy_25 (B1), Hocus_24 (B1), Hosp_019 (B6), ImtiyazSitla_24 (B1), Indlovu_23 (B11), JDog_24 (B1), JakeO_24 (B1), Jiminy_24 (B1), Jolie1_021 (B6), Kailash_25 (B1), KayaCho_21 (B6), Keitherie_25 (B1), Kwksand96_24 (B1), Labeouficaum_24 (B1), Longacauda_24 (B1), Mag7_24 (B1), Magic8_25 (B1), Maskar_24 (B1), Melc17_25 (B1), MelsMeow_24 (B1), MichaelPhcott_24 (B1), MrPhizzler_24 (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), Schueller_25 (B1), Soile_25 (B1), Struggle_24 (B1), Swiphy_26 (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 50:

- Found in 250 of 662 (37.8%) of genes in pham
- Manual Annotations of this start: 241 of 574
- Called 100.0% 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), Anderson_25 (B1), Andre_25 (B1), Antonia_24 (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), 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), Chorkpop_25 (B1), Chunky_25 (B1), Cobra_25 (B1), Coffee_27 (B2), Colbert_25 (B1), 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), DonSanchon_24 (B1), 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), 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), 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), Jillium_24 (B1), Jiraiya_25 (B1), KLucky39_25 (B1), Kahve_24 (B1), Kaleb_27 (B2), Katniss_25 (B1), Kheth_27 (B2), Kikipoo_25 (B1), Kimbrough_25 (B1), KingVeVeVe_25 (B1), KlimbOn_25 (B1), Kloppinator_25 (B1), Kwadwo_24 (B1), Lars_27 (B2), LasagnaCat_25 (B1), Lasso_25 (B1), Laurie_27 (B2), LeeLot_25 (B1), Lego3393_25 (B1), Legolas_24 (B1), LeiMonet_25 (B1), LemonSlice_25 (B1), Lephleur_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), 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), 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_25 (B1), PG1_25 (B1), Pacifista_24 (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), ProfessorX_25 (B1), Puhltonio_25 (B1), QueenBeane_25 (B1), Quisquiliae_25 (B1), Qyrzula_25 (B2), RedMaple_24 (B1), Rhinoforte_27 (B2), Ricotta_24 (B1), Riggan_25 (B1), Robyn_24 (B1), Roliet_25 (B1), Roscoe_26 (B1), Rosebush_27 (B2), Roy17_25 (B1), SDcharge11_25 (B1), Sabella_27 (B2), Samaymay_25 (B1), SassyCat97_24 (B1), Schadenfreude_24 (B1), Scoot17C_25 (B1), Scrick_25 (B1), Selr12_25 (B1), Serendipity_25 (B1), Serpentine_0025 (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), Sophia_24 (B1), Soto_25 (B1), Spartan300_25 (B1), Squid_25 (B1), Squiggle_25 (B1), Suffolk_25 (B1), Surely_25 (B1), Swish_25 (B1), TA17A_27 (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), Tooj_25 (B1), Tres_27 (B2), True_24 (B1), UAch1_25 (B1), UncleHowie_25 (B1), Usavi_25 (B1), Valjean_25 (B1), Vaticameos_25 (B1), Vic9_28 (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 51:

- Found in 1 of 662 (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: Pine5_25 (singleton),

Start 52:

- Found in 30 of 662 (4.5%) of genes in pham
- Manual Annotations of this start: 20 of 574
- Called 76.7% of time when present
- Phage (with cluster) where this start called: AnClar_23 (DR), AnarQue_24 (DR), Axumite_22 (DR), BiggityBass_22 (DR), BobRoss2024_21 (DR), CRB2_27 (B9), CaiB_24 (DR), CharlottesWeb_22 (DR), CloverMinnie_24 (DR), Coldpizza_25 (DR), Evaa_23 (DR), Fresco_22 (DR), Ligma_22 (DR), LittleMunchkin_24 (DR),

MakoManhole_24 (DR), Mariokart_22 (DR), MossRose_24 (DR), PenguinLover67_27 (B9), Quesadilla_26 (B9), Shatter_22 (DR), Sisko_22 (DR), Wooper_24 (DR), Yago84_22 (DR),

Start 54:

- Found in 27 of 662 (4.1%) of genes in pham
- Manual Annotations of this start: 17 of 574
- Called 96.3% of time when present
- Phage (with cluster) where this start called: Acadian_25 (B5), Bae_24 (B5), BirdsNest_28 (B13), DigitDog_25 (B5), Donny_25 (B5), EastView9101_24 (B5), Funsized_28 (B9), Hashim76_29 (B13), Imvubu_19 (B10), KarasumaRum_27 (B5), Knocker_27 (B9), LilMcDreamy_22 (B12), Mysterious_26 (B5), Nangang_25 (B5), Nehemiah_24 (B5), Phelemich_25 (B5), Reprobate_25 (B5), Rich_24 (B5), Rinkes_28 (B9), Saguaro_26 (B7), Serendipitous_24 (B5), Shenyu_25 (B5), SirJeffery_25 (B5), StinkyVeggy_27 (B5), Suigeneris_25 (B5), Zenteno07_29 (B13),

Start 55:

- Found in 4 of 662 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 574
- 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 57:

- Found in 38 of 662 (5.7%) of genes in pham
- Manual Annotations of this start: 25 of 574
- Called 100.0% 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), JaguarMi_23 (B4), Lambano_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), Stinger_21 (B4), Thonko_24 (B8), Vincenzo_24 (B4), VioletZ_23 (B4), Waleliano_23 (B4), Xincheng_22 (B4), Zemanar_24 (B4), phiAsp2_21 (singleton),

Start 58:

- Found in 9 of 662 (1.4%) of genes in pham
- Manual Annotations of this start: 9 of 574
- 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), Lilbeanie_25 (DE5), Megabear_19 (W), PR_19 (W), Taptic_19 (W),

Start 59:

- Found in 14 of 662 (2.1%) of genes in pham
- Manual Annotations of this start: 7 of 574
- Called 78.6% of time when present
- Phage (with cluster) where this start called: Atuin_85 (FC), Bloom_91 (FC), BlueNGold_95 (DS), Boopy_96 (DS), Forza_96 (DS), Mareelih_94 (DS), Patbob_88 (FC), Phrampa_81 (FC), Racecar_88 (FC), Sixama_94 (DS), Talia1610_87 (FC),

Start 60:

- Found in 45 of 662 (6.8%) of genes in pham
- Manual Annotations of this start: 43 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abinghost_26 (B3), Akoma_26 (B3), Athena_27 (B3), Audrey_26 (B3), Baloo_26 (B3), Ben11_25 (B3), Bernardo_26 (B3), Briakila_26 (B3), Casbah_25 (B3), ChaChing_26 (B3), Chandler_26 (B3), Compostia_27 (B3), Corofin_26 (B3), Daisy_26 (B3), Deenasa_26 (B3), Devonte_26 (B3), Gadjet_27 (B3), Gervas_26 (B3), GlenHope_27 (B3), Halfpint_25 (B3), HarveySr_26 (B3), Heathcliff_26 (B3), Kamiyu_26 (B3), Kronus_25 (B3), LestyG_26 (B3), Marley1013_26 (B3), MmasiCarm_26 (B3), Mortcellus_25 (B3), Morty007_26 (B3), Neos5_26 (B3), Nozo_26 (B3), Obutu_26 (B3), OrangeOswald_26 (B3), Phayeta_26 (B3), Philly_25 (B3), Phlyer_26 (B3), Pipefish_26 (B3), RagingRooster_26 (B3), Rita1961_26 (B3), RomaT_26 (B3), SlippinJimmy_26 (B3), SynergyX_26 (B3), Tydolla_26 (B3), Yahalom_26 (B3), Yinz_26 (B3),

Start 61:

- Found in 105 of 662 (15.9%) of genes in pham
- Manual Annotations of this start: 90 of 574
- Called 100.0% 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 (DE), Bibwit_29 (DE1), BobBob_27 (DE1), Brandonk123_31 (DE1), ChadMasterC_30 (DE1), Charming_30 (DE1), Chickadee_27 (DE3), ClamChowder_28 (DC1), Clown_30 (DC2), CoveyB_29 (DC1), Danyall_28 (DC1), Delrey21_29 (DE4), Dexdert_28 (DE3), DoctorFroggo_29 (DE4), EMoore_26 (DE2), EdmundFerry_26 (DE3), Evamon_26 (DC1), Fireball_27 (DC1), Fitzgerald_28 (DE1), Fosterous_28 (DE1), Fugax_28 (DC1), GTE6_27 (DE3), Galadriel_30 (DE1), Geodirt_27 (DE1), Gezellig_27 (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_30 (DE1), Lennon_30 (DE1), Leonard_28 (DE2), LilHam_27 (DE1), Love_33 (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), 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 62:

- Found in 1 of 662 (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: SJReid_93 (FC),

Start 67:

- Found in 21 of 662 (3.2%) of genes in pham
- No Manual Annotations of this start.
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Llemily_33 (EG),

Start 72:

- Found in 14 of 662 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: DunneganBoMo_81 (FC),

Start 78:

- Found in 8 of 662 (1.2%) of genes in pham
- Manual Annotations of this start: 7 of 574
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_20 (BG), Asis_19 (BG), BabyGotBac_19 (BG), BayC_19 (BG), Maih_19 (BG), RainyPolka_20 (BG), Salete_19 (BG), TP1604_19 (BG),

Start 80:

- Found in 4 of 662 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 574
- 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 81:

- Found in 29 of 662 (4.4%) of genes in pham
- No Manual Annotations of this start.
- Called 3.4% of time when present
- Phage (with cluster) where this start called: Rimu_26 (B1),

Summary by clusters:

There are 33 clusters represented in this pham: GD1, GD2, BG, DK, DE, singleton, FC, B12, B13, B10, B11, GD3, DR, DS, AD, EG, W, DC2, DC1, DE1, DE2, DE3, DE4, DE5, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster AD:

- Start number 55 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster B1:

- Start number 49 was manually annotated 52 times for cluster B1.
- Start number 50 was manually annotated 209 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 54 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 49 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 54 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 54 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 50 was manually annotated 32 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 60 was manually annotated 43 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 57 was manually annotated 24 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 54 was manually annotated 9 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 49 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 54 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 57 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 52 was manually annotated 3 times for cluster B9.
- Start number 54 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster BG:

- Start number 78 was manually annotated 7 times for cluster BG.
- Start number 80 was manually annotated 3 times for cluster BG.

Info for manual annotations of cluster DC1:

- Start number 61 was manually annotated 28 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 47 was manually annotated 7 times for cluster DE1.
- Start number 61 was manually annotated 37 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 61 was manually annotated 8 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 58 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DK:

- Start number 43 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DR:

- Start number 42 was manually annotated 1 time for cluster DR.
- Start number 52 was manually annotated 17 times for cluster DR.

Info for manual annotations of cluster DS:

- Start number 59 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster EG:

- Start number 46 was manually annotated 38 times for cluster EG.

Info for manual annotations of cluster FC:

- Start number 59 was manually annotated 2 times for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 43 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 45 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 45 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster W:

- Start number 58 was manually annotated 8 times for cluster W.

Gene Information:

Gene: 39HC_021 Start: 17860, Stop: 18273, Start Num: 49

Candidate Starts for 39HC_021:

(Start: 49 @17860 has 54 MA's), (105, 18028), (117, 18055), (152, 18172),

Gene: 40BC_021 Start: 17860, Stop: 18273, Start Num: 49

Candidate Starts for 40BC_021:

(Start: 49 @17860 has 54 MA's), (105, 18028), (117, 18055), (152, 18172),

Gene: A3Wally_94 Start: 50689, Stop: 51099, Start Num: 43

Candidate Starts for A3Wally_94:

(Start: 43 @50689 has 4 MA's), (81, 50776), (82, 50779), (91, 50809), (154, 51019), (160, 51037),

Gene: ABU_25 Start: 18669, Stop: 19091, Start Num: 50

Candidate Starts for ABU_25:

(32, 18603), (Start: 50 @18669 has 241 MA's), (93, 18792), (95, 18798), (96, 18804), (117, 18867), (131, 18909), (154, 18987), (165, 19035), (175, 19059), (179, 19077), (180, 19083),

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

Candidate Starts for APunk_31:

(33, 22292), (41, 22325), (Start: 61 @22352 has 90 MA's), (97, 22481), (111, 22511), (137, 22613), (141, 22619), (148, 22634), (168, 22691), (174, 22706), (183, 22754), (184, 22757),

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

Candidate Starts for Abblin_30:

(33, 22904), (41, 22937), (Start: 61 @22964 has 90 MA's), (97, 23093), (111, 23123), (137, 23225), (141, 23231), (148, 23246), (168, 23303), (174, 23318), (183, 23366), (184, 23369),

Gene: Abinghost_26 Start: 19363, Stop: 19776, Start Num: 60

Candidate Starts for Abinghost_26:

(Start: 60 @19363 has 43 MA's), (86, 19438), (95, 19483), (96, 19489), (134, 19621), (174, 19747),

Gene: AbsoluteMadLad_24 Start: 18670, Stop: 19092, Start Num: 50

Candidate Starts for AbsoluteMadLad_24:

(32, 18604), (Start: 50 @18670 has 241 MA's), (93, 18793), (95, 18799), (96, 18805), (117, 18868), (131, 18910), (154, 18988), (165, 19036), (175, 19060), (179, 19078), (180, 19084),

Gene: Abt2graduatex2_20 Start: 19744, Stop: 20124, Start Num: 78

Candidate Starts for Abt2graduatex2_20:

(Start: 78 @19744 has 7 MA's), (85, 19759), (94, 19801), (106, 19846), (135, 19936), (142, 19966), (162, 20017), (164, 20032), (170, 20059), (173, 20062),

Gene: Acadian_25 Start: 19389, Stop: 19805, Start Num: 54

Candidate Starts for Acadian_25:

(Start: 54 @19389 has 17 MA's), (77, 19449), (96, 19518), (131, 19623), (136, 19653), (181, 19800),

Gene: Adriana_25 Start: 18672, Stop: 19094, Start Num: 50

Candidate Starts for Adriana_25:

(32, 18606), (Start: 50 @18672 has 241 MA's), (93, 18795), (95, 18801), (96, 18807), (117, 18870), (131, 18912), (154, 18990), (165, 19038), (175, 19062), (179, 19080), (180, 19086),

Gene: Aelin_24 Start: 18235, Stop: 18657, Start Num: 50

Candidate Starts for Aelin_24:

(32, 18169), (Start: 50 @18235 has 241 MA's), (93, 18358), (95, 18364), (96, 18370), (117, 18433), (131, 18475), (154, 18553), (165, 18601), (175, 18625), (179, 18643), (180, 18649),

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

Candidate Starts for Affeca_28:

(39, 22822), (Start: 61 @22852 has 90 MA's), (91, 22936), (111, 23011), (120, 23035), (137, 23113), (148, 23134), (174, 23206), (184, 23257),

Gene: Ahwei_22 Start: 18304, Stop: 18717, Start Num: 57

Candidate Starts for Ahwei_22:

(Start: 57 @18304 has 25 MA's), (93, 18418), (95, 18424), (96, 18430), (105, 18466), (117, 18493), (121, 18505), (125, 18517), (131, 18535), (154, 18613), (174, 18682), (180, 18709),

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

Candidate Starts for Ailee_28:

(Start: 61 @23561 has 90 MA's), (91, 23645), (111, 23720), (120, 23744), (137, 23822), (148, 23843), (174, 23915), (184, 23966),

Gene: Akoma_26 Start: 19364, Stop: 19777, Start Num: 60

Candidate Starts for Akoma_26:

(Start: 60 @19364 has 43 MA's), (95, 19484), (96, 19490), (111, 19538), (134, 19622), (174, 19748),

Gene: AlanGrant_24 Start: 20089, Stop: 20502, Start Num: 57

Candidate Starts for AlanGrant_24:

(36, 20038), (Start: 57 @20089 has 25 MA's), (95, 20209), (96, 20215), (121, 20290), (131, 20320), (152, 20395), (159, 20413), (180, 20494),

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

Candidate Starts for Ali17_26:

(13, 20518), (16, 20554), (29, 20659), (41, 20719), (Start: 61 @20746 has 90 MA's), (91, 20830), (119, 20926), (137, 21007), (141, 21013), (146, 21025), (168, 21085), (176, 21109), (183, 21148), (184, 21151),

Gene: Allegro_27 Start: 20836, Stop: 21264, Start Num: 50

Candidate Starts for Allegro_27:

(39, 20809), (Start: 50 @20836 has 241 MA's), (63, 20851), (95, 20968), (96, 20974), (100, 21001), (111, 21022), (117, 21040), (154, 21160), (156, 21166), (174, 21229), (180, 21256),

Gene: AltPhacts_25 Start: 18664, Stop: 19086, Start Num: 50

Candidate Starts for AltPhacts_25:

(32, 18598), (Start: 50 @18664 has 241 MA's), (93, 18787), (95, 18793), (96, 18799), (117, 18862), (131, 18904), (154, 18982), (165, 19030), (175, 19054), (179, 19072), (180, 19078),

Gene: Altheas_35 Start: 22433, Stop: 22843, Start Num: 46

Candidate Starts for Altheas_35:

(Start: 46 @22433 has 38 MA's), (100, 22592), (125, 22649), (131, 22667), (146, 22706), (152, 22721),

Gene: Altwerkus_24 Start: 18364, Stop: 18786, Start Num: 50

Candidate Starts for Altwerkus_24:

(32, 18298), (Start: 50 @18364 has 241 MA's), (93, 18487), (95, 18493), (96, 18499), (117, 18562), (131, 18604), (154, 18682), (165, 18730), (175, 18754), (179, 18772), (180, 18778),

Gene: AluminumJesus_31 Start: 21927, Stop: 22340, Start Num: 46

Candidate Starts for AluminumJesus_31:

(31, 21870), (Start: 46 @21927 has 38 MA's), (81, 21999), (100, 22086), (146, 22203), (152, 22218),

Gene: AnClar_23 Start: 19435, Stop: 19848, Start Num: 52

Candidate Starts for AnClar_23:

(Start: 52 @19435 has 20 MA's), (79, 19504), (96, 19570), (111, 19618), (132, 19684), (138, 19726), (174, 19825),

Gene: AnarQue_24 Start: 18618, Stop: 19028, Start Num: 52

Candidate Starts for AnarQue_24:

(Start: 52 @18618 has 20 MA's), (101, 18780), (108, 18792), (131, 18858), (134, 18882), (145, 18921), (154, 18936), (175, 19008),

Gene: Anderson_25 Start: 18662, Stop: 19084, Start Num: 50

Candidate Starts for Anderson_25:

(32, 18596), (Start: 50 @18662 has 241 MA's), (93, 18785), (95, 18791), (96, 18797), (117, 18860), (131, 18902), (154, 18980), (165, 19028), (175, 19052), (179, 19070), (180, 19076),

Gene: Andre_25 Start: 18660, Stop: 19082, Start Num: 50

Candidate Starts for Andre_25:

(32, 18594), (Start: 50 @18660 has 241 MA's), (93, 18783), (95, 18789), (96, 18795), (117, 18858), (131, 18900), (154, 18978), (165, 19026), (175, 19050), (179, 19068), (180, 19074),

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

Candidate Starts for Angelicage_28:

(39, 23239), (Start: 61 @23269 has 90 MA's), (91, 23353), (111, 23428), (120, 23452), (137, 23530), (148, 23551), (174, 23623), (184, 23674),

Gene: Antihero_22 Start: 18304, Stop: 18717, Start Num: 57

Candidate Starts for Antihero_22:

(Start: 57 @18304 has 25 MA's), (93, 18418), (95, 18424), (96, 18430), (105, 18466), (117, 18493), (121, 18505), (125, 18517), (131, 18535), (154, 18613), (174, 18682), (180, 18709),

Gene: Antonia_24 Start: 18235, Stop: 18657, Start Num: 50

Candidate Starts for Antonia_24:

(32, 18169), (Start: 50 @18235 has 241 MA's), (93, 18358), (95, 18364), (96, 18370), (117, 18433), (131, 18475), (154, 18553), (165, 18601), (175, 18625), (179, 18643), (180, 18649),

Gene: Apex_23 Start: 19517, Stop: 19930, Start Num: 57

Candidate Starts for Apex_23:

(Start: 57 @19517 has 25 MA's), (93, 19631), (95, 19637), (96, 19643), (105, 19679), (121, 19718), (125, 19730), (131, 19748), (154, 19826), (159, 19841), (174, 19895), (175, 19898), (180, 19922),

Gene: Apizium_24 Start: 18422, Stop: 18844, Start Num: 49

Candidate Starts for Apizium_24:

(Start: 49 @18422 has 54 MA's), (81, 18494), (93, 18545), (95, 18551), (96, 18557), (117, 18620), (131, 18662), (154, 18740), (165, 18788), (175, 18812), (179, 18830), (180, 18836),

Gene: Arbiter_27 Start: 20921, Stop: 21349, Start Num: 50

Candidate Starts for Arbiter_27:

(39, 20894), (Start: 50 @20921 has 241 MA's), (63, 20936), (95, 21053), (96, 21059), (100, 21086), (111, 21107), (117, 21125), (154, 21245), (156, 21251), (174, 21314), (180, 21341),

Gene: Ares_27 Start: 20837, Stop: 21265, Start Num: 50

Candidate Starts for Ares_27:

(39, 20810), (Start: 50 @20837 has 241 MA's), (63, 20852), (95, 20969), (96, 20975), (100, 21002), (111, 21023), (117, 21041), (154, 21161), (156, 21167), (174, 21230), (180, 21257),

Gene: Argie_20 Start: 18470, Stop: 18880, Start Num: 58

Candidate Starts for Argie_20:

(Start: 58 @18470 has 9 MA's), (86, 18545), (95, 18590), (96, 18596), (108, 18638), (117, 18662), (124, 18683), (152, 18785), (165, 18830),

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

Candidate Starts for Arri_29:

(Start: 61 @18253 has 90 MA's), (137, 18514), (184, 18670),

Gene: Ashertheman_30 Start: 22146, Stop: 22580, Start Num: 61
Candidate Starts for Ashertheman_30:
(48, 22137), (Start: 61 @22146 has 90 MA's), (91, 22230), (111, 22305), (137, 22407), (148, 22428),
(168, 22485), (174, 22500), (184, 22551),

Gene: Ashraf_24 Start: 18226, Stop: 18648, Start Num: 49
Candidate Starts for Ashraf_24:
(Start: 49 @18226 has 54 MA's), (93, 18349), (95, 18355), (96, 18361), (117, 18424), (131, 18466),
(154, 18544), (165, 18592), (175, 18616), (179, 18634), (180, 18640),

Gene: Asis_19 Start: 19235, Stop: 19615, Start Num: 78
Candidate Starts for Asis_19:
(9, 18785), (24, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (106, 19337), (135,
19427), (142, 19457), (162, 19508), (164, 19523), (170, 19550), (173, 19553),

Gene: Athena_27 Start: 20126, Stop: 20539, Start Num: 60
Candidate Starts for Athena_27:
(Start: 60 @20126 has 43 MA's), (86, 20201), (95, 20246), (96, 20252), (134, 20384), (174, 20510),

Gene: Atuin_85 Start: 52030, Stop: 52410, Start Num: 59
Candidate Starts for Atuin_85:
(Start: 59 @52030 has 7 MA's), (66, 52039), (72, 52066), (113, 52207), (129, 52252), (136, 52285),
(159, 52348),

Gene: Audrey_26 Start: 19363, Stop: 19776, Start Num: 60
Candidate Starts for Audrey_26:
(Start: 60 @19363 has 43 MA's), (95, 19483), (96, 19489), (111, 19537), (134, 19621), (174, 19747),

Gene: Austelle_24 Start: 19973, Stop: 20386, Start Num: 57
Candidate Starts for Austelle_24:
(Start: 57 @19973 has 25 MA's), (93, 20087), (95, 20093), (96, 20099), (105, 20135), (121, 20174),
(125, 20186), (131, 20204), (154, 20282), (159, 20297), (174, 20351), (175, 20354), (180, 20378),

Gene: Axumite_22 Start: 17225, Stop: 17635, Start Num: 52
Candidate Starts for Axumite_22:
(Start: 52 @17225 has 20 MA's), (86, 17306), (93, 17345), (96, 17357), (108, 17399), (111, 17405),
(117, 17423), (138, 17513),

Gene: BabyDotz_32 Start: 22195, Stop: 22599, Start Num: 46
Candidate Starts for BabyDotz_32:
(34, 22150), (Start: 46 @22195 has 38 MA's), (Start: 52 @22207 has 20 MA's), (67, 22231), (124,
22405), (131, 22426), (149, 22471), (152, 22480), (183, 22585), (185, 22594),

Gene: BabyGotBac_19 Start: 19235, Stop: 19615, Start Num: 78
Candidate Starts for BabyGotBac_19:
(9, 18785), (24, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (106, 19337), (135,
19427), (142, 19457), (162, 19508), (164, 19523), (170, 19550), (173, 19553),

Gene: Baddon_29 Start: 22946, Stop: 23380, Start Num: 47
Candidate Starts for Baddon_29:
(Start: 47 @22946 has 7 MA's), (82, 23000), (91, 23030), (111, 23105), (137, 23207), (148, 23228),
(174, 23300), (184, 23351),

Gene: Badfish_25 Start: 18694, Stop: 19116, Start Num: 50

Candidate Starts for Badfish_25:

(32, 18628), (Start: 50 @18694 has 241 MA's), (93, 18817), (95, 18823), (96, 18829), (117, 18892), (131, 18934), (154, 19012), (165, 19060), (175, 19084), (179, 19102), (180, 19108),

Gene: Bae_24 Start: 19145, Stop: 19561, Start Num: 54

Candidate Starts for Bae_24:

(Start: 54 @19145 has 17 MA's), (93, 19262), (96, 19274), (117, 19337), (174, 19526), (181, 19556),

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

Candidate Starts for Bakery_27:

(Start: 61 @17507 has 90 MA's), (184, 17924),

Gene: Baloo_26 Start: 19363, Stop: 19776, Start Num: 60

Candidate Starts for Baloo_26:

(Start: 60 @19363 has 43 MA's), (95, 19483), (96, 19489), (111, 19537), (134, 19621), (174, 19747),

Gene: Bananafish_27 Start: 20833, Stop: 21261, Start Num: 50

Candidate Starts for Bananafish_27:

(39, 20806), (Start: 50 @20833 has 241 MA's), (63, 20848), (95, 20965), (96, 20971), (100, 20998), (111, 21019), (117, 21037), (154, 21157), (156, 21163), (174, 21226), (180, 21253),

Gene: Banjo_24 Start: 18371, Stop: 18793, Start Num: 50

Candidate Starts for Banjo_24:

(32, 18305), (Start: 50 @18371 has 241 MA's), (93, 18494), (95, 18500), (96, 18506), (117, 18569), (131, 18611), (154, 18689), (165, 18737), (175, 18761), (179, 18779), (180, 18785),

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

Candidate Starts for Barb_28:

(Start: 61 @18286 has 90 MA's), (137, 18547), (184, 18703),

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

Candidate Starts for Barsten_30:

(39, 22663), (Start: 61 @22693 has 90 MA's), (91, 22777), (111, 22852), (120, 22876), (137, 22954), (148, 22975), (174, 23047), (184, 23098),

Gene: Basato_26 Start: 18896, Stop: 19318, Start Num: 50

Candidate Starts for Basato_26:

(32, 18830), (Start: 50 @18896 has 241 MA's), (93, 19019), (95, 19025), (96, 19031), (117, 19094), (131, 19136), (154, 19214), (165, 19262), (175, 19286), (179, 19304), (180, 19310),

Gene: BatteryCK_24 Start: 18248, Stop: 18670, Start Num: 49

Candidate Starts for BatteryCK_24:

(Start: 49 @18248 has 54 MA's), (81, 18320), (93, 18371), (95, 18377), (96, 18383), (117, 18446), (131, 18488), (154, 18566), (165, 18614), (175, 18638), (179, 18656), (180, 18662),

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

Candidate Starts for Baumdotcom_29:

(48, 21752), (Start: 61 @21761 has 90 MA's), (91, 21845), (111, 21920), (137, 22022), (148, 22043), (168, 22100), (174, 22115), (184, 22166),

Gene: BayC_19 Start: 19235, Stop: 19615, Start Num: 78

Candidate Starts for BayC_19:

(9, 18785), (24, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (106, 19337), (135, 19427), (142, 19457), (162, 19508), (164, 19523), (170, 19550), (173, 19553),

Gene: Beaglebox_24 Start: 18391, Stop: 18813, Start Num: 50

Candidate Starts for Beaglebox_24:

(32, 18325), (Start: 50 @18391 has 241 MA's), (93, 18514), (95, 18520), (96, 18526), (117, 18589), (131, 18631), (154, 18709), (165, 18757), (175, 18781), (179, 18799), (180, 18805),

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

Candidate Starts for Belphegor_28:

(35, 22247), (41, 22271), (Start: 61 @22298 has 90 MA's), (91, 22382), (119, 22478), (137, 22559), (141, 22565), (146, 22577), (168, 22637), (174, 22652), (176, 22661), (180, 22679), (183, 22700), (184, 22703),

Gene: Ben11_25 Start: 19185, Stop: 19598, Start Num: 60

Candidate Starts for Ben11_25:

(Start: 60 @19185 has 43 MA's), (95, 19305), (96, 19311), (111, 19359), (134, 19443), (174, 19569),

Gene: Bernardo_26 Start: 19363, Stop: 19776, Start Num: 60

Candidate Starts for Bernardo_26:

(Start: 60 @19363 has 43 MA's), (95, 19483), (96, 19489), (111, 19537), (134, 19621), (174, 19747),

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

Candidate Starts for Bibwit_29:

(Start: 61 @22880 has 90 MA's), (91, 22964), (111, 23039), (120, 23063), (137, 23141), (148, 23162), (168, 23219), (174, 23234), (184, 23285),

Gene: Big4_83 Start: 49711, Stop: 50121, Start Num: 45

Candidate Starts for Big4_83:

(17, 49555), (21, 49585), (Start: 45 @49711 has 3 MA's), (72, 49771), (82, 49798), (86, 49807), (106, 49897), (160, 50059),

Gene: BiggityBass_22 Start: 19520, Stop: 19933, Start Num: 52

Candidate Starts for BiggityBass_22:

(Start: 52 @19520 has 20 MA's), (79, 19589), (111, 19703), (132, 19769), (174, 19910),

Gene: BirdInFrench_32 Start: 20827, Stop: 21222, Start Num: 46

Candidate Starts for BirdInFrench_32:

(Start: 46 @20827 has 38 MA's), (68, 20869), (73, 20878), (100, 20986), (160, 21127), (181, 21196), (183, 21214),

Gene: BirdsNest_28 Start: 18737, Stop: 19153, Start Num: 54

Candidate Starts for BirdsNest_28:

(Start: 54 @18737 has 17 MA's), (99, 18890), (100, 18893), (154, 19049), (159, 19064), (180, 19145),

Gene: Bishoperium_24 Start: 18377, Stop: 18799, Start Num: 50

Candidate Starts for Bishoperium_24:

(32, 18311), (Start: 50 @18377 has 241 MA's), (93, 18500), (95, 18506), (96, 18512), (117, 18575), (131, 18617), (154, 18695), (165, 18743), (175, 18767), (179, 18785), (180, 18791),

Gene: Bizzy_30 Start: 22093, Stop: 22527, Start Num: 47

Candidate Starts for Bizzy_30:

(Start: 47 @22093 has 7 MA's), (82, 22147), (91, 22177), (111, 22252), (137, 22354), (148, 22375), (174, 22447), (184, 22498),

Gene: Blab_31 Start: 21852, Stop: 22265, Start Num: 46

Candidate Starts for Blab_31:

(31, 21795), (Start: 46 @21852 has 38 MA's), (81, 21924), (100, 22011), (146, 22128), (152, 22143),

Gene: BlackStallion_25 Start: 18682, Stop: 19104, Start Num: 50

Candidate Starts for BlackStallion_25:

(32, 18616), (Start: 50 @18682 has 241 MA's), (93, 18805), (95, 18811), (96, 18817), (117, 18880), (131, 18922), (154, 19000), (165, 19048), (175, 19072), (179, 19090), (180, 19096),

Gene: Blocker23_27 Start: 20954, Stop: 21382, Start Num: 50

Candidate Starts for Blocker23_27:

(39, 20927), (Start: 50 @20954 has 241 MA's), (63, 20969), (95, 21086), (96, 21092), (100, 21119), (111, 21140), (117, 21158), (154, 21278), (156, 21284), (174, 21347), (180, 21374),

Gene: Bloom_91 Start: 53421, Stop: 53804, Start Num: 59

Candidate Starts for Bloom_91:

(Start: 59 @53421 has 7 MA's), (72, 53460), (74, 53463), (97, 53562), (106, 53586), (126, 53637), (129, 53646), (140, 53700), (154, 53727), (158, 53739),

Gene: BlueHusk_25 Start: 18178, Stop: 18600, Start Num: 50

Candidate Starts for BlueHusk_25:

(32, 18112), (Start: 50 @18178 has 241 MA's), (93, 18301), (95, 18307), (96, 18313), (117, 18376), (131, 18418), (154, 18496), (165, 18544), (175, 18568), (179, 18586), (180, 18592),

Gene: BlueNGold_95 Start: 51971, Stop: 52378, Start Num: 59

Candidate Starts for BlueNGold_95:

(56, 51968), (Start: 59 @51971 has 7 MA's), (72, 52007), (89, 52061), (93, 52082), (126, 52184), (130, 52196), (133, 52238), (134, 52247), (140, 52274), (159, 52316), (165, 52349), (169, 52361), (174, 52370),

Gene: Bluephacebaby_24 Start: 18377, Stop: 18799, Start Num: 50

Candidate Starts for Bluephacebaby_24:

(32, 18311), (Start: 50 @18377 has 241 MA's), (93, 18500), (95, 18506), (96, 18512), (117, 18575), (131, 18617), (154, 18695), (165, 18743), (175, 18767), (179, 18785), (180, 18791),

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

Candidate Starts for BobBob_27:

(39, 22128), (Start: 61 @22158 has 90 MA's), (91, 22242), (111, 22317), (120, 22341), (137, 22419), (174, 22512), (184, 22563),

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

Candidate Starts for BobRoss2024_21:

(Start: 52 @16983 has 20 MA's), (112, 17166), (121, 17193), (145, 17286), (175, 17373),

Gene: BobbyK_23 Start: 19336, Stop: 19749, Start Num: 57

Candidate Starts for BobbyK_23:

(Start: 57 @19336 has 25 MA's), (93, 19450), (95, 19456), (96, 19462), (105, 19498), (121, 19537), (125, 19549), (131, 19567), (154, 19645), (159, 19660), (174, 19714), (175, 19717), (180, 19741),

Gene: Boehler_25 Start: 18687, Stop: 19109, Start Num: 50

Candidate Starts for Boehler_25:

(32, 18621), (Start: 50 @18687 has 241 MA's), (93, 18810), (95, 18816), (96, 18822), (117, 18885), (131, 18927), (154, 19005), (165, 19053), (175, 19077), (179, 19095), (180, 19101),

Gene: Boopy_96 Start: 51983, Stop: 52390, Start Num: 59

Candidate Starts for Boopy_96:

(56, 51980), (Start: 59 @51983 has 7 MA's), (72, 52019), (89, 52073), (93, 52094), (126, 52196), (130, 52208), (133, 52250), (134, 52259), (140, 52286), (159, 52328), (165, 52361), (169, 52373), (174, 52382),

Gene: Boyle_27 Start: 20955, Stop: 21383, Start Num: 50

Candidate Starts for Boyle_27:

(39, 20928), (Start: 50 @20955 has 241 MA's), (63, 20970), (95, 21087), (96, 21093), (100, 21120), (111, 21141), (117, 21159), (154, 21279), (156, 21285), (174, 21348), (180, 21375),

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

Candidate Starts for Brandonk123_31:

(39, 23197), (Start: 61 @23227 has 90 MA's), (91, 23311), (111, 23386), (120, 23410), (137, 23488), (174, 23581), (184, 23632),

Gene: Briakila_26 Start: 20128, Stop: 20541, Start Num: 60

Candidate Starts for Briakila_26:

(Start: 60 @20128 has 43 MA's), (95, 20248), (96, 20254), (111, 20302), (134, 20386), (174, 20512),

Gene: Brilliant_25 Start: 18382, Stop: 18804, Start Num: 49

Candidate Starts for Brilliant_25:

(Start: 49 @18382 has 54 MA's), (93, 18505), (95, 18511), (96, 18517), (117, 18580), (131, 18622), (154, 18700), (165, 18748), (175, 18772), (179, 18790), (180, 18796),

Gene: BrownCNA_24 Start: 19588, Stop: 20001, Start Num: 57

Candidate Starts for BrownCNA_24:

(Start: 57 @19588 has 25 MA's), (93, 19702), (95, 19708), (96, 19714), (105, 19750), (121, 19789), (125, 19801), (131, 19819), (154, 19897), (174, 19966), (175, 19969), (180, 19993),

Gene: Brownie5_27 Start: 20954, Stop: 21382, Start Num: 50

Candidate Starts for Brownie5_27:

(39, 20927), (Start: 50 @20954 has 241 MA's), (63, 20969), (95, 21086), (96, 21092), (100, 21119), (111, 21140), (117, 21158), (154, 21278), (156, 21284), (174, 21347), (180, 21374),

Gene: Buckeye_25 Start: 18701, Stop: 19123, Start Num: 50

Candidate Starts for Buckeye_25:

(32, 18635), (Start: 50 @18701 has 241 MA's), (93, 18824), (95, 18830), (96, 18836), (117, 18899), (131, 18941), (154, 19019), (165, 19067), (175, 19091), (179, 19109), (180, 19115),

Gene: Burr_24 Start: 18376, Stop: 18798, Start Num: 50

Candidate Starts for Burr_24:

(32, 18310), (Start: 50 @18376 has 241 MA's), (93, 18499), (95, 18505), (96, 18511), (117, 18574), (131, 18616), (154, 18694), (165, 18742), (175, 18766), (179, 18784), (180, 18790),

Gene: CRB2_27 Start: 21048, Stop: 21482, Start Num: 52

Candidate Starts for CRB2_27:

(Start: 52 @21048 has 20 MA's), (77, 21111), (79, 21114), (95, 21174), (96, 21180), (105, 21216), (117, 21243), (121, 21255), (154, 21363), (174, 21432),

Gene: CaiB_24 Start: 18604, Stop: 19014, Start Num: 52

Candidate Starts for CaiB_24:

(Start: 52 @18604 has 20 MA's), (108, 18778), (154, 18922),

Gene: Calamitous_27 Start: 20834, Stop: 21262, Start Num: 50

Candidate Starts for Calamitous_27:

(39, 20807), (Start: 50 @20834 has 241 MA's), (63, 20849), (95, 20966), (96, 20972), (100, 20999), (111, 21020), (117, 21038), (154, 21158), (156, 21164), (174, 21227), (180, 21254),

Gene: CamL_25 Start: 18675, Stop: 19097, Start Num: 50

Candidate Starts for CamL_25:

(32, 18609), (Start: 50 @18675 has 241 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: CampRoach_25 Start: 18668, Stop: 19090, Start Num: 50

Candidate Starts for CampRoach_25:

(32, 18602), (Start: 50 @18668 has 241 MA's), (93, 18791), (95, 18797), (96, 18803), (117, 18866), (131, 18908), (154, 18986), (165, 19034), (175, 19058), (179, 19076), (180, 19082),

Gene: CandC_31 Start: 20527, Stop: 20922, Start Num: 46

Candidate Starts for CandC_31:

(Start: 46 @20527 has 38 MA's), (73, 20578), (100, 20686), (131, 20761), (160, 20827), (183, 20914),

Gene: Cannibal_25 Start: 18661, Stop: 19083, Start Num: 50

Candidate Starts for Cannibal_25:

(32, 18595), (Start: 50 @18661 has 241 MA's), (93, 18784), (95, 18790), (96, 18796), (117, 18859), (131, 18901), (154, 18979), (165, 19027), (175, 19051), (179, 19069), (180, 19075),

Gene: Carthage_23 Start: 17587, Stop: 18009, Start Num: 50

Candidate Starts for Carthage_23:

(32, 17521), (Start: 50 @17587 has 241 MA's), (93, 17710), (95, 17716), (96, 17722), (117, 17785), (131, 17827), (154, 17905), (165, 17953), (175, 17977), (179, 17995), (180, 18001),

Gene: Casbah_25 Start: 19215, Stop: 19628, Start Num: 60

Candidate Starts for Casbah_25:

(Start: 60 @19215 has 43 MA's), (86, 19290), (95, 19335), (96, 19341), (134, 19473), (174, 19599),

Gene: Casend_34 Start: 22604, Stop: 23008, Start Num: 46

Candidate Starts for Casend_34:

(31, 22547), (Start: 46 @22604 has 38 MA's), (67, 22640), (124, 22814), (131, 22835), (149, 22880), (152, 22889), (183, 22994), (185, 23003),

Gene: Cece_77 Start: 45674, Stop: 46081, Start Num: 45

Candidate Starts for Cece_77:

(Start: 45 @45674 has 3 MA's), (70, 45725), (88, 45779), (95, 45815), (98, 45839), (107, 45860), (110, 45866), (140, 45974), (154, 46001), (160, 46019),

Gene: Cepens_19 Start: 18194, Stop: 18604, Start Num: 58

Candidate Starts for Cepens_19:

(Start: 58 @18194 has 9 MA's), (86, 18269), (95, 18314), (96, 18320), (108, 18362), (117, 18386), (124, 18407), (152, 18509), (165, 18554),

Gene: ChaChing_26 Start: 19378, Stop: 19791, Start Num: 60
Candidate Starts for ChaChing_26:
(Start: 60 @19378 has 43 MA's), (86, 19453), (95, 19498), (96, 19504), (134, 19636), (174, 19762),

Gene: ChadMasterC_30 Start: 23885, Stop: 24319, Start Num: 61
Candidate Starts for ChadMasterC_30:
(39, 23855), (Start: 61 @23885 has 90 MA's), (91, 23969), (111, 24044), (120, 24068), (137, 24146),
(148, 24167), (174, 24239), (184, 24290),

Gene: Chaelin_24 Start: 18361, Stop: 18783, Start Num: 49
Candidate Starts for Chaelin_24:
(Start: 49 @18361 has 54 MA's), (81, 18433), (93, 18484), (95, 18490), (96, 18496), (117, 18559),
(131, 18601), (154, 18679), (165, 18727), (175, 18751), (179, 18769), (180, 18775),

Gene: Chandler_26 Start: 20137, Stop: 20550, Start Num: 60
Candidate Starts for Chandler_26:
(Start: 60 @20137 has 43 MA's), (86, 20212), (95, 20257), (96, 20263), (134, 20395), (174, 20521),

Gene: Charles1_25 Start: 18659, Stop: 19081, Start Num: 50
Candidate Starts for Charles1_25:
(32, 18593), (Start: 50 @18659 has 241 MA's), (93, 18782), (95, 18788), (96, 18794), (117, 18857),
(131, 18899), (154, 18977), (165, 19025), (175, 19049), (179, 19067), (180, 19073),

Gene: CharlieGBrown_24 Start: 18246, Stop: 18668, Start Num: 49
Candidate Starts for CharlieGBrown_24:
(Start: 49 @18246 has 54 MA's), (93, 18369), (95, 18375), (96, 18381), (117, 18444), (131, 18486),
(154, 18564), (165, 18612), (175, 18636), (179, 18654), (180, 18660),

Gene: CharlottesWeb_22 Start: 17120, Stop: 17533, Start Num: 52
Candidate Starts for CharlottesWeb_22:
(Start: 42 @17099 has 1 MA's), (Start: 52 @17120 has 20 MA's), (71, 17162), (86, 17201), (95,
17246), (96, 17252), (111, 17300),

Gene: Charming_30 Start: 22736, Stop: 23170, Start Num: 61
Candidate Starts for Charming_30:
(39, 22706), (Start: 61 @22736 has 90 MA's), (91, 22820), (111, 22895), (120, 22919), (137, 22997),
(148, 23018), (174, 23090), (184, 23141),

Gene: CheetO_25 Start: 18674, Stop: 19096, Start Num: 50
Candidate Starts for CheetO_25:
(32, 18608), (Start: 50 @18674 has 241 MA's), (93, 18797), (95, 18803), (96, 18809), (117, 18872),
(131, 18914), (154, 18992), (165, 19040), (175, 19064), (179, 19082), (180, 19088),

Gene: Cher_24 Start: 18400, Stop: 18822, Start Num: 50
Candidate Starts for Cher_24:
(32, 18334), (Start: 50 @18400 has 241 MA's), (93, 18523), (95, 18529), (96, 18535), (117, 18598),
(131, 18640), (154, 18718), (165, 18766), (175, 18790), (179, 18808), (180, 18814),

Gene: Chickadee_27 Start: 19601, Stop: 20032, Start Num: 61
Candidate Starts for Chickadee_27:
(20, 19433), (Start: 61 @19601 has 90 MA's), (91, 19685), (111, 19760), (146, 19880), (153, 19895),
(174, 19955), (176, 19964), (183, 20003), (184, 20006),

Gene: Childish_24 Start: 18388, Stop: 18810, Start Num: 50

Candidate Starts for Childish_24:

(32, 18322), (Start: 50 @18388 has 241 MA's), (93, 18511), (95, 18517), (96, 18523), (117, 18586), (131, 18628), (154, 18706), (165, 18754), (175, 18778), (179, 18796), (180, 18802),

Gene: Chorkpop_25 Start: 18399, Stop: 18821, Start Num: 50

Candidate Starts for Chorkpop_25:

(32, 18333), (Start: 50 @18399 has 241 MA's), (93, 18522), (95, 18528), (96, 18534), (117, 18597), (131, 18639), (140, 18690), (154, 18717), (165, 18765), (175, 18789), (179, 18807), (180, 18813),

Gene: ChrisnMich_22 Start: 18293, Stop: 18706, Start Num: 57

Candidate Starts for ChrisnMich_22:

(Start: 57 @18293 has 25 MA's), (93, 18407), (95, 18413), (96, 18419), (105, 18455), (121, 18494), (125, 18506), (131, 18524), (154, 18602), (174, 18671), (180, 18698),

Gene: Chunky_25 Start: 18687, Stop: 19109, Start Num: 50

Candidate Starts for Chunky_25:

(32, 18621), (Start: 50 @18687 has 241 MA's), (93, 18810), (95, 18816), (96, 18822), (117, 18885), (131, 18927), (154, 19005), (165, 19053), (175, 19077), (179, 19095), (180, 19101),

Gene: Chute_24 Start: 18712, Stop: 19134, Start Num: 49

Candidate Starts for Chute_24:

(Start: 49 @18712 has 54 MA's), (81, 18784), (93, 18835), (95, 18841), (96, 18847), (117, 18910), (131, 18952), (154, 19030), (165, 19078), (175, 19102), (179, 19120), (180, 19126),

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

Candidate Starts for ClamChowder_28:

(Start: 61 @18286 has 90 MA's), (137, 18547), (184, 18703),

Gene: CloverMinnie_24 Start: 18544, Stop: 18954, Start Num: 52

Candidate Starts for CloverMinnie_24:

(Start: 52 @18544 has 20 MA's), (101, 18706), (108, 18718), (131, 18784), (134, 18808), (145, 18847), (154, 18862), (175, 18934),

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

Candidate Starts for Clown_30:

(27, 20125), (30, 20134), (Start: 61 @20227 has 90 MA's), (88, 20299), (184, 20644),

Gene: Cobra_25 Start: 18680, Stop: 19102, Start Num: 50

Candidate Starts for Cobra_25:

(32, 18614), (Start: 50 @18680 has 241 MA's), (93, 18803), (95, 18809), (96, 18815), (117, 18878), (131, 18920), (154, 18998), (165, 19046), (175, 19070), (179, 19088), (180, 19094),

Gene: Coffee_27 Start: 20947, Stop: 21375, Start Num: 50

Candidate Starts for Coffee_27:

(39, 20920), (Start: 50 @20947 has 241 MA's), (63, 20962), (95, 21079), (96, 21085), (100, 21112), (111, 21133), (117, 21151), (154, 21271), (156, 21277), (174, 21340), (180, 21367),

Gene: Colbert_25 Start: 18677, Stop: 19099, Start Num: 50

Candidate Starts for Colbert_25:

(32, 18611), (Start: 50 @18677 has 241 MA's), (93, 18800), (95, 18806), (96, 18812), (117, 18875), (131, 18917), (154, 18995), (165, 19043), (175, 19067), (179, 19085), (180, 19091),

Gene: Coldpizza_25 Start: 21451, Stop: 21861, Start Num: 52

Candidate Starts for Coldpizza_25:

(Start: 52 @21451 has 20 MA's), (75, 21505), (76, 21508), (86, 21532), (96, 21583), (121, 21661),

Gene: Coletti_24 Start: 18712, Stop: 19134, Start Num: 49

Candidate Starts for Coletti_24:

(Start: 49 @18712 has 54 MA's), (81, 18784), (93, 18835), (95, 18841), (96, 18847), (117, 18910), (131, 18952), (154, 19030), (165, 19078), (175, 19102), (179, 19120), (180, 19126),

Gene: Compostia_27 Start: 19796, Stop: 20209, Start Num: 60

Candidate Starts for Compostia_27:

(Start: 60 @19796 has 43 MA's), (86, 19871), (95, 19916), (96, 19922), (134, 20054), (174, 20180),

Gene: Cooper_23 Start: 18410, Stop: 18823, Start Num: 57

Candidate Starts for Cooper_23:

(Start: 57 @18410 has 25 MA's), (95, 18530), (96, 18536), (105, 18572), (117, 18599), (125, 18623), (131, 18641), (154, 18719), (174, 18788), (180, 18815),

Gene: Cornobble_24 Start: 18235, Stop: 18657, Start Num: 50

Candidate Starts for Cornobble_24:

(32, 18169), (Start: 50 @18235 has 241 MA's), (93, 18358), (95, 18364), (96, 18370), (117, 18433), (131, 18475), (154, 18553), (165, 18601), (175, 18625), (179, 18643), (180, 18649),

Gene: Corofin_26 Start: 19388, Stop: 19801, Start Num: 60

Candidate Starts for Corofin_26:

(Start: 60 @19388 has 43 MA's), (86, 19463), (95, 19508), (96, 19514), (134, 19646), (174, 19772),

Gene: Cosmolli16_24 Start: 18394, Stop: 18816, Start Num: 50

Candidate Starts for Cosmolli16_24:

(32, 18328), (Start: 50 @18394 has 241 MA's), (93, 18517), (95, 18523), (96, 18529), (117, 18592), (131, 18634), (140, 18685), (154, 18712), (165, 18760), (175, 18784), (179, 18802), (180, 18808),

Gene: CoveyB_29 Start: 18086, Stop: 18529, Start Num: 61

Candidate Starts for CoveyB_29:

(Start: 61 @18086 has 90 MA's), (137, 18347), (184, 18503),

Gene: Craff_25 Start: 18681, Stop: 19103, Start Num: 50

Candidate Starts for Craff_25:

(32, 18615), (Start: 50 @18681 has 241 MA's), (93, 18804), (95, 18810), (96, 18816), (117, 18879), (131, 18921), (154, 18999), (165, 19047), (175, 19071), (179, 19089), (180, 19095),

Gene: Crownjwl_25 Start: 18448, Stop: 18870, Start Num: 50

Candidate Starts for Crownjwl_25:

(32, 18382), (Start: 50 @18448 has 241 MA's), (93, 18571), (95, 18577), (96, 18583), (117, 18646), (131, 18688), (154, 18766), (165, 18814), (175, 18838), (179, 18856), (180, 18862),

Gene: D12_19 Start: 18187, Stop: 18597, Start Num: 58

Candidate Starts for D12_19:

(Start: 58 @18187 has 9 MA's), (86, 18262), (95, 18307), (96, 18313), (108, 18355), (117, 18379), (124, 18400), (152, 18502), (165, 18547),

Gene: DaddyDaniels_25 Start: 18373, Stop: 18795, Start Num: 49

Candidate Starts for DaddyDaniels_25:

(Start: 49 @18373 has 54 MA's), (93, 18496), (95, 18502), (96, 18508), (117, 18571), (131, 18613), (154, 18691), (165, 18739), (175, 18763), (179, 18781), (180, 18787),

Gene: Daffy_25 Start: 18400, Stop: 18822, Start Num: 50

Candidate Starts for Daffy_25:

(32, 18334), (Start: 50 @18400 has 241 MA's), (93, 18523), (95, 18529), (96, 18535), (117, 18598), (131, 18640), (154, 18718), (165, 18766), (175, 18790), (179, 18808), (180, 18814),

Gene: Daisy_26 Start: 19384, Stop: 19797, Start Num: 60

Candidate Starts for Daisy_26:

(Start: 60 @19384 has 43 MA's), (95, 19504), (96, 19510), (134, 19642), (174, 19768),

Gene: Daka_25 Start: 18677, Stop: 19099, Start Num: 50

Candidate Starts for Daka_25:

(32, 18611), (Start: 50 @18677 has 241 MA's), (93, 18800), (95, 18806), (96, 18812), (117, 18875), (131, 18917), (154, 18995), (165, 19043), (175, 19067), (179, 19085), (180, 19091),

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

Candidate Starts for Danyall_28:

(Start: 61 @18086 has 90 MA's), (137, 18347), (184, 18503),

Gene: Dati_25 Start: 18390, Stop: 18812, Start Num: 49

Candidate Starts for Dati_25:

(Start: 49 @18390 has 54 MA's), (93, 18513), (95, 18519), (96, 18525), (117, 18588), (131, 18630), (154, 18708), (165, 18756), (175, 18780), (179, 18798), (180, 18804),

Gene: Deenasa_26 Start: 20126, Stop: 20539, Start Num: 60

Candidate Starts for Deenasa_26:

(Start: 60 @20126 has 43 MA's), (86, 20201), (95, 20246), (96, 20252), (134, 20384), (174, 20510),

Gene: DelRivs_24 Start: 18389, Stop: 18811, Start Num: 49

Candidate Starts for DelRivs_24:

(Start: 49 @18389 has 54 MA's), (95, 18518), (96, 18524), (117, 18587), (131, 18629), (154, 18707), (165, 18755), (175, 18779), (179, 18797), (180, 18803),

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

Candidate Starts for Delrey21_29:

(41, 23070), (Start: 61 @23097 has 90 MA's), (91, 23181), (96, 23211), (97, 23226), (111, 23256), (119, 23277), (137, 23358), (141, 23364), (153, 23391), (168, 23436), (174, 23451), (183, 23499), (184, 23502),

Gene: Derg_27 Start: 21689, Stop: 22123, Start Num: 47

Candidate Starts for Derg_27:

(Start: 47 @21689 has 7 MA's), (82, 21743), (91, 21773), (111, 21848), (137, 21950), (148, 21971), (174, 22043), (184, 22094),

Gene: Derpp_24 Start: 18236, Stop: 18658, Start Num: 49

Candidate Starts for Derpp_24:

(Start: 49 @18236 has 54 MA's), (93, 18359), (95, 18365), (96, 18371), (117, 18434), (131, 18476), (154, 18554), (165, 18602), (175, 18626), (179, 18644), (180, 18650),

Gene: Devonte_26 Start: 19363, Stop: 19776, Start Num: 60

Candidate Starts for Devonte_26:

(Start: 60 @19363 has 43 MA's), (86, 19438), (95, 19483), (96, 19489), (134, 19621), (174, 19747),

Gene: Dextert_28 Start: 20032, Stop: 20463, Start Num: 61

Candidate Starts for Dextert_28:

(Start: 61 @20032 has 90 MA's), (91, 20116), (111, 20191), (119, 20212), (146, 20311), (153, 20326), (174, 20386), (183, 20434), (184, 20437), (185, 20446),

Gene: Dice_24 Start: 18377, Stop: 18799, Start Num: 50

Candidate Starts for Dice_24:

(32, 18311), (Start: 50 @18377 has 241 MA's), (93, 18500), (95, 18506), (96, 18512), (117, 18575), (131, 18617), (154, 18695), (165, 18743), (175, 18767), (179, 18785), (180, 18791),

Gene: DigitDog_25 Start: 18981, Stop: 19397, Start Num: 54

Candidate Starts for DigitDog_25:

(Start: 54 @18981 has 17 MA's), (117, 19173), (131, 19215), (140, 19266), (181, 19392),

Gene: Dingo_25 Start: 18661, Stop: 19083, Start Num: 50

Candidate Starts for Dingo_25:

(32, 18595), (Start: 50 @18661 has 241 MA's), (93, 18784), (95, 18790), (96, 18796), (117, 18859), (131, 18901), (154, 18979), (165, 19027), (175, 19051), (179, 19069), (180, 19075),

Gene: Dione_24 Start: 18378, Stop: 18800, Start Num: 50

Candidate Starts for Dione_24:

(32, 18312), (Start: 50 @18378 has 241 MA's), (93, 18501), (95, 18507), (96, 18513), (117, 18576), (131, 18618), (154, 18696), (165, 18744), (175, 18768), (179, 18786), (180, 18792),

Gene: DirtJuice_25 Start: 18663, Stop: 19085, Start Num: 50

Candidate Starts for DirtJuice_25:

(32, 18597), (Start: 50 @18663 has 241 MA's), (93, 18786), (95, 18792), (96, 18798), (117, 18861), (131, 18903), (154, 18981), (165, 19029), (175, 19053), (179, 19071), (180, 19077),

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

Candidate Starts for DoctorFroggo_29:

(41, 23070), (Start: 61 @23097 has 90 MA's), (91, 23181), (96, 23211), (97, 23226), (111, 23256), (119, 23277), (137, 23358), (141, 23364), (153, 23391), (168, 23436), (174, 23451), (183, 23499), (184, 23502),

Gene: Doddsville_25 Start: 18390, Stop: 18812, Start Num: 49

Candidate Starts for Doddsville_25:

(Start: 49 @18390 has 54 MA's), (93, 18513), (95, 18519), (96, 18525), (117, 18588), (131, 18630), (154, 18708), (165, 18756), (175, 18780), (179, 18798), (180, 18804),

Gene: DoesntMatter_25 Start: 18659, Stop: 19081, Start Num: 50

Candidate Starts for DoesntMatter_25:

(32, 18593), (Start: 50 @18659 has 241 MA's), (93, 18782), (95, 18788), (96, 18794), (117, 18857), (131, 18899), (140, 18950), (154, 18977), (165, 19025), (175, 19049), (179, 19067), (180, 19073),

Gene: DonSanchon_24 Start: 18376, Stop: 18798, Start Num: 50

Candidate Starts for DonSanchon_24:

(32, 18310), (Start: 50 @18376 has 241 MA's), (93, 18499), (95, 18505), (96, 18511), (117, 18574), (131, 18616), (154, 18694), (165, 18742), (175, 18766), (179, 18784), (180, 18790),

Gene: DonaldDuck_33 Start: 21950, Stop: 22354, Start Num: 46

Candidate Starts for DonaldDuck_33:

(31, 21893), (Start: 46 @21950 has 38 MA's), (67, 21986), (124, 22160), (131, 22181), (149, 22226), (152, 22235), (183, 22340), (185, 22349),

Gene: Donny_25 Start: 19394, Stop: 19810, Start Num: 54

Candidate Starts for Donny_25:

(Start: 54 @19394 has 17 MA's), (77, 19454), (96, 19523), (131, 19628), (136, 19658), (181, 19805),

Gene: Dori_22 Start: 16225, Stop: 16629, Start Num: 55

Candidate Starts for Dori_22:

(Start: 55 @16225 has 4 MA's), (86, 16303), (95, 16348), (96, 16354), (109, 16399), (117, 16420), (131, 16462), (134, 16486), (140, 16513), (147, 16525), (171, 16603),

Gene: DuchessDung_23 Start: 17527, Stop: 17949, Start Num: 49

Candidate Starts for DuchessDung_23:

(Start: 49 @17527 has 54 MA's), (93, 17650), (95, 17656), (96, 17662), (117, 17725), (131, 17767), (154, 17845), (165, 17893), (175, 17917), (179, 17935), (180, 17941),

Gene: Duggie_24 Start: 18392, Stop: 18814, Start Num: 49

Candidate Starts for Duggie_24:

(Start: 49 @18392 has 54 MA's), (93, 18515), (95, 18521), (96, 18527), (117, 18590), (131, 18632), (154, 18710), (165, 18758), (175, 18782), (179, 18800), (180, 18806),

Gene: DunneganBoMo_81 Start: 48911, Stop: 49255, Start Num: 72

Candidate Starts for DunneganBoMo_81:

(Start: 59 @48875 has 7 MA's), (72, 48911), (96, 48998), (118, 49061), (126, 49088), (129, 49097), (159, 49193),

Gene: Durga_25 Start: 18689, Stop: 19111, Start Num: 49

Candidate Starts for Durga_25:

(Start: 49 @18689 has 54 MA's), (93, 18812), (95, 18818), (96, 18824), (117, 18887), (131, 18929), (154, 19007), (165, 19055), (175, 19079), (179, 19097), (180, 19103),

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

Candidate Starts for EMoore_26:

(35, 21536), (41, 21560), (Start: 46 @21563 has 38 MA's), (Start: 61 @21587 has 90 MA's), (91, 21671), (97, 21716), (137, 21848), (168, 21926), (176, 21950), (183, 21989), (184, 21992),

Gene: Eaglehorse_27 Start: 20855, Stop: 21283, Start Num: 50

Candidate Starts for Eaglehorse_27:

(39, 20828), (Start: 50 @20855 has 241 MA's), (63, 20870), (95, 20987), (96, 20993), (100, 21020), (111, 21041), (117, 21059), (154, 21179), (156, 21185), (174, 21248), (180, 21275),

Gene: EastView9101_24 Start: 19041, Stop: 19457, Start Num: 54

Candidate Starts for EastView9101_24:

(Start: 54 @19041 has 17 MA's), (96, 19170), (117, 19233), (181, 19452),

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

Candidate Starts for EdmundFerry_26:

(20, 19462), (Start: 61 @19630 has 90 MA's), (91, 19714), (111, 19789), (146, 19909), (153, 19924), (174, 19984), (176, 19993), (183, 20032), (184, 20035),

Gene: Emiris_25 Start: 18670, Stop: 19092, Start Num: 50

Candidate Starts for Emiris_25:

(32, 18604), (Start: 50 @18670 has 241 MA's), (93, 18793), (95, 18799), (96, 18805), (117, 18868), (131, 18910), (154, 18988), (165, 19036), (175, 19060), (179, 19078), (180, 19084),

Gene: EmpTee_25 Start: 18676, Stop: 19098, Start Num: 50

Candidate Starts for EmpTee_25:

(32, 18610), (Start: 50 @18676 has 241 MA's), (93, 18799), (95, 18805), (96, 18811), (117, 18874), (131, 18916), (154, 18994), (165, 19042), (175, 19066), (179, 19084), (180, 19090),

Gene: Epah_22 Start: 18304, Stop: 18717, Start Num: 57

Candidate Starts for Epah_22:

(Start: 57 @18304 has 25 MA's), (93, 18418), (95, 18424), (96, 18430), (105, 18466), (117, 18493), (121, 18505), (125, 18517), (131, 18535), (154, 18613), (174, 18682), (180, 18709),

Gene: Eremos_25 Start: 18676, Stop: 19098, Start Num: 50

Candidate Starts for Eremos_25:

(32, 18610), (Start: 50 @18676 has 241 MA's), (93, 18799), (95, 18805), (96, 18811), (117, 18874), (131, 18916), (154, 18994), (165, 19042), (175, 19066), (179, 19084), (180, 19090),

Gene: Etaye_25 Start: 18662, Stop: 19084, Start Num: 49

Candidate Starts for Etaye_25:

(Start: 49 @18662 has 54 MA's), (93, 18785), (95, 18791), (96, 18797), (117, 18860), (131, 18902), (154, 18980), (165, 19028), (175, 19052), (179, 19070), (180, 19076),

Gene: Eugenia_25 Start: 18689, Stop: 19111, Start Num: 50

Candidate Starts for Eugenia_25:

(32, 18623), (Start: 50 @18689 has 241 MA's), (93, 18812), (95, 18818), (96, 18824), (117, 18887), (131, 18929), (154, 19007), (165, 19055), (175, 19079), (179, 19097), (180, 19103),

Gene: Evaa_23 Start: 18465, Stop: 18881, Start Num: 52

Candidate Starts for Evaa_23:

(Start: 52 @18465 has 20 MA's), (86, 18549), (96, 18600), (109, 18645), (134, 18732), (138, 18756),

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

Candidate Starts for Evamon_26:

(Start: 61 @17572 has 90 MA's), (137, 17833), (184, 17989),

Gene: EverythinBagel_33 Start: 22338, Stop: 22736, Start Num: 46

Candidate Starts for EverythinBagel_33:

(32, 22284), (Start: 46 @22338 has 38 MA's), (67, 22374), (124, 22548), (131, 22569), (149, 22614), (152, 22623),

Gene: Fanaw_22 Start: 18998, Stop: 19411, Start Num: 57

Candidate Starts for Fanaw_22:

(Start: 57 @18998 has 25 MA's), (93, 19112), (95, 19118), (96, 19124), (105, 19160), (121, 19199), (125, 19211), (131, 19229), (154, 19307), (180, 19403),

Gene: Fang_25 Start: 18690, Stop: 19112, Start Num: 50

Candidate Starts for Fang_25:

(32, 18624), (Start: 50 @18690 has 241 MA's), (93, 18813), (95, 18819), (96, 18825), (117, 18888), (131, 18930), (154, 19008), (165, 19056), (175, 19080), (179, 19098), (180, 19104),

Gene: Faze9_27 Start: 20951, Stop: 21379, Start Num: 50

Candidate Starts for Faze9_27:

(39, 20924), (Start: 50 @20951 has 241 MA's), (63, 20966), (95, 21083), (96, 21089), (100, 21116), (111, 21137), (117, 21155), (154, 21275), (156, 21281), (174, 21344), (180, 21371),

Gene: Fireball_27 Start: 17704, Stop: 18147, Start Num: 61

Candidate Starts for Fireball_27:

(Start: 61 @17704 has 90 MA's), (137, 17965), (184, 18121),

Gene: Fitzgerald_28 Start: 23319, Stop: 23753, Start Num: 61

Candidate Starts for Fitzgerald_28:

(39, 23289), (Start: 61 @23319 has 90 MA's), (91, 23403), (111, 23478), (137, 23580), (148, 23601), (174, 23673), (184, 23724),

Gene: Fizzles_33 Start: 21660, Stop: 22067, Start Num: 46

Candidate Starts for Fizzles_33:

(32, 21606), (Start: 46 @21660 has 38 MA's), (Start: 52 @21672 has 20 MA's), (67, 21696), (131, 21891), (149, 21936), (152, 21945), (167, 21993), (183, 22053), (185, 22062),

Gene: Flatwoods_30 Start: 22050, Stop: 22484, Start Num: 47

Candidate Starts for Flatwoods_30:

(Start: 47 @22050 has 7 MA's), (82, 22104), (91, 22134), (111, 22209), (137, 22311), (148, 22332), (174, 22404), (184, 22455),

Gene: FluffyNinja_25 Start: 18682, Stop: 19104, Start Num: 50

Candidate Starts for FluffyNinja_25:

(32, 18616), (Start: 50 @18682 has 241 MA's), (93, 18805), (95, 18811), (96, 18817), (117, 18880), (131, 18922), (154, 19000), (165, 19048), (175, 19072), (179, 19090), (180, 19096),

Gene: Fortunato_23 Start: 19330, Stop: 19743, Start Num: 57

Candidate Starts for Fortunato_23:

(Start: 57 @19330 has 25 MA's), (93, 19444), (95, 19450), (96, 19456), (105, 19492), (121, 19531), (125, 19543), (131, 19561), (154, 19639), (159, 19654), (174, 19708), (175, 19711), (180, 19735),

Gene: Forza_96 Start: 51899, Stop: 52306, Start Num: 59

Candidate Starts for Forza_96:

(56, 51896), (Start: 59 @51899 has 7 MA's), (72, 51935), (89, 51989), (93, 52010), (126, 52112), (130, 52124), (133, 52166), (134, 52175), (140, 52202), (159, 52244), (165, 52277), (169, 52289), (174, 52298),

Gene: Fosterous_28 Start: 23152, Stop: 23586, Start Num: 61

Candidate Starts for Fosterous_28:

(39, 23122), (Start: 61 @23152 has 90 MA's), (91, 23236), (111, 23311), (120, 23335), (137, 23413), (174, 23506), (184, 23557),

Gene: Fozzie_24 Start: 18685, Stop: 19107, Start Num: 50

Candidate Starts for Fozzie_24:

(32, 18619), (Start: 50 @18685 has 241 MA's), (93, 18808), (95, 18814), (96, 18820), (117, 18883), (131, 18925), (154, 19003), (165, 19051), (175, 19075), (179, 19093), (180, 19099),

Gene: FrankDeliGuy_31 Start: 21910, Stop: 22314, Start Num: 46

Candidate Starts for FrankDeliGuy_31:

(Start: 46 @21910 has 38 MA's), (Start: 52 @21922 has 20 MA's), (124, 22120), (131, 22141), (149, 22186), (152, 22195), (183, 22300), (185, 22309),

Gene: Frankicide_25 Start: 18676, Stop: 19098, Start Num: 50

Candidate Starts for Frankicide_25:

(32, 18610), (Start: 50 @18676 has 241 MA's), (93, 18799), (95, 18805), (96, 18811), (117, 18874), (131, 18916), (154, 18994), (165, 19042), (175, 19066), (179, 19084), (180, 19090),

Gene: Fransoyer_35 Start: 21775, Stop: 22191, Start Num: 46

Candidate Starts for Fransoyer_35:

(22, 21652), (35, 21742), (Start: 46 @21775 has 38 MA's), (92, 21886), (155, 22072), (157, 22075), (185, 22186),

Gene: Frederick_23 Start: 19339, Stop: 19752, Start Num: 57

Candidate Starts for Frederick_23:

(Start: 57 @19339 has 25 MA's), (93, 19453), (95, 19459), (96, 19465), (105, 19501), (121, 19540), (125, 19552), (131, 19570), (154, 19648), (159, 19663), (174, 19717), (175, 19720), (180, 19744),

Gene: Fregley_33 Start: 21097, Stop: 21492, Start Num: 46

Candidate Starts for Fregley_33:

(Start: 46 @21097 has 38 MA's), (73, 21148), (100, 21256), (131, 21331), (160, 21397), (183, 21484),

Gene: FrenchFry_27 Start: 20954, Stop: 21382, Start Num: 50

Candidate Starts for FrenchFry_27:

(39, 20927), (Start: 50 @20954 has 241 MA's), (63, 20969), (95, 21086), (96, 21092), (100, 21119), (111, 21140), (117, 21158), (154, 21278), (156, 21284), (174, 21347), (180, 21374),

Gene: Fresco_22 Start: 17225, Stop: 17635, Start Num: 52

Candidate Starts for Fresco_22:

(Start: 52 @17225 has 20 MA's), (86, 17306), (93, 17345), (96, 17357), (108, 17399), (111, 17405), (117, 17423), (138, 17513),

Gene: Freya_24 Start: 18371, Stop: 18793, Start Num: 50

Candidate Starts for Freya_24:

(32, 18305), (Start: 50 @18371 has 241 MA's), (93, 18494), (95, 18500), (96, 18506), (117, 18569), (131, 18611), (154, 18689), (165, 18737), (175, 18761), (179, 18779), (180, 18785),

Gene: FriarPreacher_25 Start: 18696, Stop: 19118, Start Num: 50

Candidate Starts for FriarPreacher_25:

(32, 18630), (Start: 50 @18696 has 241 MA's), (93, 18819), (95, 18825), (96, 18831), (117, 18894), (131, 18936), (154, 19014), (165, 19062), (175, 19086), (179, 19104), (180, 19110),

Gene: Fringe_25 Start: 18660, Stop: 19082, Start Num: 50

Candidate Starts for Fringe_25:

(32, 18594), (Start: 50 @18660 has 241 MA's), (93, 18783), (95, 18789), (96, 18795), (117, 18858), (131, 18900), (154, 18978), (165, 19026), (175, 19050), (179, 19068), (180, 19074),

Gene: FugateOSU_24 Start: 18382, Stop: 18804, Start Num: 50

Candidate Starts for FugateOSU_24:

(32, 18316), (Start: 50 @18382 has 241 MA's), (93, 18505), (95, 18511), (96, 18517), (117, 18580), (131, 18622), (140, 18673), (154, 18700), (165, 18748), (175, 18772), (179, 18790), (180, 18796),

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

Candidate Starts for Fugax_28:

(Start: 61 @18286 has 90 MA's), (137, 18547), (184, 18703),

Gene: Funsized_28 Start: 21759, Stop: 22175, Start Num: 54

Candidate Starts for Funsized_28:

(Start: 54 @21759 has 17 MA's), (95, 21882), (96, 21888), (105, 21924), (131, 21993), (140, 22044), (154, 22071), (159, 22086), (180, 22167),

Gene: GMA2_25 Start: 22256, Stop: 22675, Start Num: 49

Candidate Starts for GMA2_25:

(Start: 49 @22256 has 54 MA's), (Start: 59 @22268 has 7 MA's), (79, 22325), (102, 22424), (126, 22481), (133, 22535), (134, 22544), (154, 22595), (169, 22655),

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

Candidate Starts for GTE6_27:

(20, 19951), (Start: 61 @20119 has 90 MA's), (91, 20203), (111, 20278), (146, 20398), (153, 20413), (176, 20482), (183, 20521), (184, 20524),

Gene: Gadjet_27 Start: 19373, Stop: 19786, Start Num: 60

Candidate Starts for Gadjet_27:

(Start: 60 @19373 has 43 MA's), (95, 19493), (96, 19499), (111, 19547), (134, 19631), (174, 19757),

Gene: Gaea_29 Start: 21701, Stop: 22135, Start Num: 47

Candidate Starts for Gaea_29:

(Start: 47 @21701 has 7 MA's), (82, 21755), (91, 21785), (111, 21860), (137, 21962), (148, 21983), (174, 22055), (184, 22106),

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

Candidate Starts for Galadriel_30:

(39, 23611), (Start: 61 @23641 has 90 MA's), (91, 23725), (111, 23800), (120, 23824), (137, 23902), (174, 23995), (184, 24046),

Gene: Gareth_24 Start: 18379, Stop: 18801, Start Num: 50

Candidate Starts for Gareth_24:

(32, 18313), (Start: 50 @18379 has 241 MA's), (93, 18502), (95, 18508), (96, 18514), (117, 18577), (131, 18619), (154, 18697), (165, 18745), (175, 18769), (179, 18787), (180, 18793),

Gene: Gazebo_32 Start: 22390, Stop: 22803, Start Num: 46

Candidate Starts for Gazebo_32:

(31, 22333), (Start: 46 @22390 has 38 MA's), (81, 22462), (100, 22549), (146, 22666), (152, 22681),

Gene: GeneCoco_25 Start: 18681, Stop: 19103, Start Num: 49

Candidate Starts for GeneCoco_25:

(Start: 49 @18681 has 54 MA's), (93, 18804), (95, 18810), (96, 18816), (117, 18879), (131, 18921), (154, 18999), (165, 19047), (175, 19071), (179, 19089), (180, 19095),

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

Candidate Starts for Geodirt_27:

(39, 22594), (Start: 61 @22624 has 90 MA's), (91, 22708), (111, 22783), (120, 22807), (137, 22885), (174, 22978), (184, 23029),

Gene: Gervas_26 Start: 19347, Stop: 19760, Start Num: 60

Candidate Starts for Gervas_26:

(Start: 60 @19347 has 43 MA's), (95, 19467), (96, 19473), (111, 19521), (134, 19605), (174, 19731),

Gene: Gezellig_27 Start: 17704, Stop: 18147, Start Num: 61

Candidate Starts for Gezellig_27:

(Start: 61 @17704 has 90 MA's), (137, 17965), (184, 18121),

Gene: GinPorsche_22 Start: 18304, Stop: 18717, Start Num: 57

Candidate Starts for GinPorsche_22:

(Start: 57 @18304 has 25 MA's), (93, 18418), (95, 18424), (96, 18430), (105, 18466), (117, 18493), (121, 18505), (125, 18517), (131, 18535), (154, 18613), (174, 18682), (180, 18709),

Gene: Giraffe_25 Start: 18384, Stop: 18806, Start Num: 50

Candidate Starts for Giraffe_25:

(32, 18318), (Start: 50 @18384 has 241 MA's), (93, 18507), (95, 18513), (96, 18519), (117, 18582), (131, 18624), (140, 18675), (154, 18702), (165, 18750), (175, 18774), (179, 18792), (180, 18798),

Gene: Glass_27 Start: 20954, Stop: 21382, Start Num: 50

Candidate Starts for Glass_27:

(39, 20927), (Start: 50 @20954 has 241 MA's), (63, 20969), (95, 21086), (96, 21092), (100, 21119), (111, 21140), (117, 21158), (154, 21278), (156, 21284), (174, 21347), (180, 21374),

Gene: GlenHope_27 Start: 19356, Stop: 19769, Start Num: 60

Candidate Starts for GlenHope_27:

(Start: 60 @19356 has 43 MA's), (95, 19476), (96, 19482), (111, 19530), (134, 19614), (174, 19740),

Gene: GodPhather_20 Start: 18473, Stop: 18883, Start Num: 58

Candidate Starts for GodPhather_20:

(Start: 58 @18473 has 9 MA's), (86, 18548), (95, 18593), (96, 18599), (108, 18641), (117, 18665), (124, 18686), (152, 18788), (165, 18833),

Gene: Godines_27 Start: 20847, Stop: 21275, Start Num: 50

Candidate Starts for Godines_27:

(39, 20820), (Start: 50 @20847 has 241 MA's), (95, 20979), (96, 20985), (100, 21012), (111, 21033), (117, 21051), (154, 21171), (156, 21177), (174, 21240), (180, 21267),

Gene: GodonK_84 Start: 43620, Stop: 44033, Start Num: 43

Candidate Starts for GodonK_84:

(Start: 43 @43620 has 4 MA's), (65, 43653), (92, 43746), (96, 43770), (103, 43803), (115, 43830), (117, 43833), (136, 43905), (140, 43926), (158, 43965), (175, 44025),

Gene: Gophee_25 Start: 18662, Stop: 19084, Start Num: 50

Candidate Starts for Gophee_25:

(32, 18596), (Start: 50 @18662 has 241 MA's), (93, 18785), (95, 18791), (96, 18797), (117, 18860), (131, 18902), (154, 18980), (165, 19028), (175, 19052), (179, 19070), (180, 19076),

Gene: Grand2040_24 Start: 18399, Stop: 18821, Start Num: 50

Candidate Starts for Grand2040_24:

(32, 18333), (Start: 50 @18399 has 241 MA's), (93, 18522), (95, 18528), (96, 18534), (117, 18597), (131, 18639), (140, 18690), (154, 18717), (165, 18765), (175, 18789), (179, 18807), (180, 18813),

Gene: Grassboy_34 Start: 22564, Stop: 22977, Start Num: 46

Candidate Starts for Grassboy_34:

(31, 22507), (Start: 46 @22564 has 38 MA's), (100, 22723), (146, 22840), (152, 22855),

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

Candidate Starts for Gustavo_29:

(48, 21844), (Start: 61 @21853 has 90 MA's), (91, 21937), (111, 22012), (137, 22114), (148, 22135), (168, 22192), (174, 22207), (184, 22258),

Gene: Gwilliam_25 Start: 18672, Stop: 19094, Start Num: 50

Candidate Starts for Gwilliam_25:

(32, 18606), (Start: 50 @18672 has 241 MA's), (93, 18795), (95, 18801), (96, 18807), (117, 18870), (131, 18912), (154, 18990), (165, 19038), (175, 19062), (179, 19080), (180, 19086),

Gene: Gyarad_0025 Start: 18674, Stop: 19096, Start Num: 50

Candidate Starts for Gyarad_0025:

(32, 18608), (Start: 50 @18674 has 241 MA's), (93, 18797), (95, 18803), (96, 18809), (117, 18872), (131, 18914), (154, 18992), (165, 19040), (175, 19064), (179, 19082), (180, 19088),

Gene: HSavage_25 Start: 18682, Stop: 19104, Start Num: 50

Candidate Starts for HSavage_25:

(32, 18616), (Start: 50 @18682 has 241 MA's), (93, 18805), (95, 18811), (96, 18817), (117, 18880), (131, 18922), (154, 19000), (165, 19048), (175, 19072), (179, 19090), (180, 19096),

Gene: Haimas_25 Start: 18677, Stop: 19099, Start Num: 50

Candidate Starts for Haimas_25:

(32, 18611), (Start: 50 @18677 has 241 MA's), (93, 18800), (95, 18806), (96, 18812), (117, 18875), (131, 18917), (154, 18995), (165, 19043), (175, 19067), (179, 19085), (180, 19091),

Gene: Haleema_24 Start: 18399, Stop: 18821, Start Num: 50

Candidate Starts for Haleema_24:

(32, 18333), (Start: 50 @18399 has 241 MA's), (93, 18522), (95, 18528), (96, 18534), (117, 18597), (131, 18639), (154, 18717), (165, 18765), (175, 18789), (179, 18807), (180, 18813),

Gene: Halfpint_25 Start: 19188, Stop: 19601, Start Num: 60

Candidate Starts for Halfpint_25:

(Start: 60 @19188 has 43 MA's), (95, 19308), (96, 19314), (111, 19362), (134, 19446), (174, 19572),

Gene: Hally898_22 Start: 18304, Stop: 18717, Start Num: 57

Candidate Starts for Hally898_22:

(Start: 57 @18304 has 25 MA's), (93, 18418), (95, 18424), (96, 18430), (105, 18466), (117, 18493), (121, 18505), (125, 18517), (131, 18535), (154, 18613), (174, 18682), (180, 18709),

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

Candidate Starts for Halo3_27:

(Start: 61 @17997 has 90 MA's), (137, 18258), (184, 18414),

Gene: Hamish_25 Start: 18669, Stop: 19091, Start Num: 50

Candidate Starts for Hamish_25:

(32, 18603), (Start: 50 @18669 has 241 MA's), (93, 18792), (95, 18798), (96, 18804), (117, 18867), (131, 18909), (154, 18987), (165, 19035), (175, 19059), (179, 19077), (180, 19083),

Gene: Hangman_23 Start: 19331, Stop: 19744, Start Num: 57

Candidate Starts for Hangman_23:

(Start: 57 @19331 has 25 MA's), (93, 19445), (95, 19451), (96, 19457), (105, 19493), (121, 19532), (125, 19544), (131, 19562), (154, 19640), (174, 19709), (175, 19712), (180, 19736),

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

Candidate Starts for Hans_30:

(16, 21216), (41, 21381), (Start: 61 @21408 has 90 MA's), (91, 21492), (119, 21588), (137, 21669), (141, 21675), (146, 21687), (168, 21747), (176, 21771), (183, 21810), (184, 21813),

Gene: Hartsy_25 Start: 18692, Stop: 19114, Start Num: 49

Candidate Starts for Hartsy_25:

(Start: 49 @18692 has 54 MA's), (81, 18764), (93, 18815), (95, 18821), (96, 18827), (117, 18890), (131, 18932), (154, 19010), (165, 19058), (175, 19082), (179, 19100), (180, 19106),

Gene: Harvey_25 Start: 18698, Stop: 19120, Start Num: 50

Candidate Starts for Harvey_25:

(32, 18632), (Start: 50 @18698 has 241 MA's), (93, 18821), (95, 18827), (96, 18833), (117, 18896), (131, 18938), (154, 19016), (165, 19064), (175, 19088), (179, 19106), (180, 19112),

Gene: HarveySr_26 Start: 19343, Stop: 19756, Start Num: 60

Candidate Starts for HarveySr_26:

(Start: 60 @19343 has 43 MA's), (95, 19463), (96, 19469), (134, 19601), (174, 19727),

Gene: Hashim76_29 Start: 19154, Stop: 19570, Start Num: 54

Candidate Starts for Hashim76_29:

(Start: 54 @19154 has 17 MA's), (95, 19277), (99, 19307), (154, 19466), (159, 19481), (180, 19562),

Gene: Heath_22 Start: 18962, Stop: 19375, Start Num: 57

Candidate Starts for Heath_22:

(Start: 57 @18962 has 25 MA's), (93, 19076), (95, 19082), (96, 19088), (105, 19124), (121, 19163), (125, 19175), (131, 19193), (154, 19271), (174, 19340), (175, 19343), (180, 19367),

Gene: Heathcliff_26 Start: 19325, Stop: 19738, Start Num: 60

Candidate Starts for Heathcliff_26:

(Start: 60 @19325 has 43 MA's), (95, 19445), (96, 19451), (111, 19499), (134, 19583), (174, 19709),

Gene: Hedgerow_27 Start: 20936, Stop: 21364, Start Num: 50

Candidate Starts for Hedgerow_27:

(39, 20909), (Start: 50 @20936 has 241 MA's), (63, 20951), (95, 21068), (96, 21074), (100, 21101), (111, 21122), (117, 21140), (154, 21260), (156, 21266), (174, 21329), (180, 21356),

Gene: Held_25 Start: 18383, Stop: 18805, Start Num: 50

Candidate Starts for Held_25:

(32, 18317), (Start: 50 @18383 has 241 MA's), (93, 18506), (95, 18512), (96, 18518), (117, 18581), (131, 18623), (154, 18701), (165, 18749), (175, 18773), (179, 18791), (180, 18797),

Gene: HenryJackson_24 Start: 18399, Stop: 18821, Start Num: 50

Candidate Starts for HenryJackson_24:

(32, 18333), (Start: 50 @18399 has 241 MA's), (93, 18522), (95, 18528), (96, 18534), (117, 18597), (131, 18639), (154, 18717), (165, 18765), (175, 18789), (179, 18807), (180, 18813),

Gene: Hertubise_25 Start: 18691, Stop: 19113, Start Num: 50

Candidate Starts for Hertubise_25:

(32, 18625), (Start: 50 @18691 has 241 MA's), (93, 18814), (95, 18820), (96, 18826), (117, 18889), (131, 18931), (154, 19009), (165, 19057), (175, 19081), (179, 19099), (180, 19105),

Gene: Hetaeria_25 Start: 18692, Stop: 19114, Start Num: 50

Candidate Starts for Hetaeria_25:

(32, 18626), (Start: 50 @18692 has 241 MA's), (93, 18815), (95, 18821), (96, 18827), (117, 18890), (131, 18932), (140, 18983), (154, 19010), (165, 19058), (175, 19082), (179, 19100), (180, 19106),

Gene: HighStump_24 Start: 18382, Stop: 18804, Start Num: 50

Candidate Starts for HighStump_24:

(32, 18316), (Start: 50 @18382 has 241 MA's), (93, 18505), (95, 18511), (96, 18517), (117, 18580), (131, 18622), (140, 18673), (154, 18700), (165, 18748), (175, 18772), (179, 18790), (180, 18796),

Gene: Hocus_24 Start: 18385, Stop: 18807, Start Num: 49

Candidate Starts for Hocus_24:

(Start: 49 @18385 has 54 MA's), (93, 18508), (95, 18514), (96, 18520), (117, 18583), (131, 18625), (154, 18703), (165, 18751), (175, 18775), (179, 18793), (180, 18799),

Gene: Holeinone_27 Start: 20832, Stop: 21260, Start Num: 50

Candidate Starts for Holeinone_27:

(39, 20805), (Start: 50 @20832 has 241 MA's), (63, 20847), (95, 20964), (96, 20970), (100, 20997), (111, 21018), (117, 21036), (154, 21156), (156, 21162), (174, 21225), (180, 21252),

Gene: Horchata_25 Start: 18661, Stop: 19083, Start Num: 50

Candidate Starts for Horchata_25:

(32, 18595), (Start: 50 @18661 has 241 MA's), (93, 18784), (95, 18790), (96, 18796), (117, 18859), (131, 18901), (154, 18979), (165, 19027), (175, 19051), (179, 19069), (180, 19075),

Gene: Hosp_019 Start: 16062, Stop: 16475, Start Num: 49

Candidate Starts for Hosp_019:

(Start: 49 @16062 has 54 MA's), (88, 16152), (105, 16230), (117, 16257), (131, 16299), (152, 16374),

Gene: Hydro_23 Start: 19336, Stop: 19749, Start Num: 57

Candidate Starts for Hydro_23:

(Start: 57 @19336 has 25 MA's), (93, 19450), (95, 19456), (96, 19462), (105, 19498), (121, 19537), (125, 19549), (131, 19567), (154, 19645), (165, 19693), (174, 19714), (175, 19717), (180, 19741),

Gene: Hyperion_32 Start: 22347, Stop: 22760, Start Num: 46

Candidate Starts for Hyperion_32:

(31, 22290), (Start: 46 @22347 has 38 MA's), (100, 22506), (146, 22623), (152, 22638),

Gene: ImtiyazSitla_24 Start: 18226, Stop: 18648, Start Num: 49

Candidate Starts for ImtiyazSitla_24:

(Start: 49 @18226 has 54 MA's), (93, 18349), (95, 18355), (96, 18361), (117, 18424), (131, 18466), (154, 18544), (165, 18592), (175, 18616), (179, 18634), (180, 18640),

Gene: Imvubu_19 Start: 16429, Stop: 16845, Start Num: 54

Candidate Starts for Imvubu_19:

(Start: 54 @16429 has 17 MA's), (63, 16438), (95, 16552), (121, 16633), (144, 16723), (179, 16831), (180, 16837),

Gene: Inchworm_25 Start: 18668, Stop: 19090, Start Num: 50

Candidate Starts for Inchworm_25:

(32, 18602), (Start: 50 @18668 has 241 MA's), (93, 18791), (95, 18797), (96, 18803), (117, 18866), (131, 18908), (154, 18986), (165, 19034), (175, 19058), (179, 19076), (180, 19082),

Gene: Indlovu_23 Start: 19044, Stop: 19460, Start Num: 49

Candidate Starts for Indlovu_23:

(Start: 49 @19044 has 54 MA's), (105, 19212), (131, 19281), (154, 19359), (174, 19428), (175, 19431),

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

Candidate Starts for Inspectinfecti_29:

(13, 21604), (16, 21640), (41, 21805), (Start: 61 @21832 has 90 MA's), (91, 21916), (119, 22012), (137, 22093), (141, 22099), (146, 22111), (168, 22171), (176, 22195), (183, 22234), (184, 22237),

Gene: Inverness_25 Start: 18682, Stop: 19104, Start Num: 50

Candidate Starts for Inverness_25:

(32, 18616), (Start: 50 @18682 has 241 MA's), (93, 18805), (95, 18811), (96, 18817), (117, 18880), (131, 18922), (154, 19000), (165, 19048), (175, 19072), (179, 19090), (180, 19096),

Gene: Iridoclysis_25 Start: 18656, Stop: 19078, Start Num: 50

Candidate Starts for Iridoclysis_25:

(32, 18590), (Start: 50 @18656 has 241 MA's), (93, 18779), (95, 18785), (96, 18791), (117, 18854), (131, 18896), (154, 18974), (165, 19022), (175, 19046), (179, 19064), (180, 19070),

Gene: IsaacEli_25 Start: 18686, Stop: 19108, Start Num: 50

Candidate Starts for IsaacEli_25:

(32, 18620), (Start: 50 @18686 has 241 MA's), (93, 18809), (95, 18815), (96, 18821), (117, 18884), (131, 18926), (140, 18977), (154, 19004), (165, 19052), (175, 19076), (179, 19094), (180, 19100),

Gene: ItsyBitsy1_27 Start: 20825, Stop: 21253, Start Num: 50

Candidate Starts for ItsyBitsy1_27:

(39, 20798), (Start: 50 @20825 has 241 MA's), (63, 20840), (95, 20957), (96, 20963), (100, 20990), (111, 21011), (117, 21029), (154, 21149), (156, 21155), (174, 21218), (180, 21245),

Gene: JDog_24 Start: 18392, Stop: 18814, Start Num: 49

Candidate Starts for JDog_24:

(Start: 49 @18392 has 54 MA's), (93, 18515), (95, 18521), (96, 18527), (117, 18590), (131, 18632), (154, 18710), (165, 18758), (175, 18782), (179, 18800), (180, 18806),

Gene: JKSyngboy_27 Start: 22410, Stop: 22844, Start Num: 47

Candidate Starts for JKSyngboy_27:

(Start: 47 @22410 has 7 MA's), (82, 22464), (91, 22494), (96, 22524), (111, 22569), (137, 22671), (148, 22692), (174, 22764), (184, 22815),

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

Candidate Starts for Jabberwocky_28:

(39, 23750), (Start: 61 @23780 has 90 MA's), (91, 23864), (111, 23939), (120, 23963), (137, 24041), (148, 24062), (174, 24134), (184, 24185),

Gene: JacAttac_25 Start: 18668, Stop: 19090, Start Num: 50

Candidate Starts for JacAttac_25:

(32, 18602), (Start: 50 @18668 has 241 MA's), (93, 18791), (95, 18797), (96, 18803), (117, 18866), (131, 18908), (154, 18986), (165, 19034), (175, 19058), (179, 19076), (180, 19082),

Gene: JaguarMi_23 Start: 18798, Stop: 19211, Start Num: 57

Candidate Starts for JaguarMi_23:

(Start: 57 @18798 has 25 MA's), (93, 18912), (95, 18918), (96, 18924), (105, 18960), (121, 18999), (125, 19011), (131, 19029), (154, 19107), (174, 19176), (175, 19179), (180, 19203),

Gene: JakeO_24 Start: 18392, Stop: 18814, Start Num: 49

Candidate Starts for JakeO_24:

(Start: 49 @18392 has 54 MA's), (93, 18515), (95, 18521), (96, 18527), (117, 18590), (131, 18632), (154, 18710), (165, 18758), (175, 18782), (179, 18800), (180, 18806),

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

Candidate Starts for Jambalaya_26:

(Start: 61 @17351 has 90 MA's), (137, 17612), (184, 17768),

Gene: JangoPhett_25 Start: 18666, Stop: 19088, Start Num: 50

Candidate Starts for JangoPhett_25:

(32, 18600), (Start: 50 @18666 has 241 MA's), (93, 18789), (95, 18795), (96, 18801), (117, 18864), (131, 18906), (154, 18984), (165, 19032), (175, 19056), (179, 19074), (180, 19080),

Gene: Jehoshaphat_35 Start: 22869, Stop: 23273, Start Num: 46

Candidate Starts for Jehoshaphat_35:

(31, 22812), (Start: 46 @22869 has 38 MA's), (67, 22905), (124, 23079), (131, 23100), (149, 23145), (152, 23154), (183, 23259), (185, 23268),

Gene: Jeon_19 Start: 18215, Stop: 18625, Start Num: 58

Candidate Starts for Jeon_19:

(Start: 58 @18215 has 9 MA's), (86, 18290), (95, 18335), (96, 18341), (108, 18383), (117, 18407), (124, 18428), (152, 18530), (165, 18575),

Gene: Jillium_24 Start: 18392, Stop: 18814, Start Num: 50

Candidate Starts for Jillium_24:

(32, 18326), (Start: 50 @18392 has 241 MA's), (93, 18515), (95, 18521), (96, 18527), (117, 18590), (131, 18632), (154, 18710), (165, 18758), (175, 18782), (179, 18800), (180, 18806),

Gene: Jiminy_24 Start: 18230, Stop: 18652, Start Num: 49

Candidate Starts for Jiminy_24:

(Start: 49 @18230 has 54 MA's), (93, 18353), (95, 18359), (96, 18365), (117, 18428), (131, 18470), (154, 18548), (165, 18596), (175, 18620), (179, 18638), (180, 18644),

Gene: Jiraiya_25 Start: 18390, Stop: 18812, Start Num: 50

Candidate Starts for Jiraiya_25:

(32, 18324), (Start: 50 @18390 has 241 MA's), (93, 18513), (95, 18519), (96, 18525), (117, 18588), (131, 18630), (154, 18708), (165, 18756), (175, 18780), (179, 18798), (180, 18804),

Gene: Jolie1_021 Start: 17832, Stop: 18245, Start Num: 49

Candidate Starts for Jolie1_021:

(Start: 49 @17832 has 54 MA's), (105, 18000), (109, 18009), (117, 18027), (152, 18144),

Gene: Judebell_35 Start: 22375, Stop: 22779, Start Num: 46

Candidate Starts for Judebell_35:

(Start: 46 @22375 has 38 MA's), (Start: 52 @22387 has 20 MA's), (124, 22585), (131, 22606), (149, 22651), (152, 22660), (183, 22765), (185, 22774),

Gene: KLucky39_25 Start: 18674, Stop: 19096, Start Num: 50

Candidate Starts for KLucky39_25:

(32, 18608), (Start: 50 @18674 has 241 MA's), (93, 18797), (95, 18803), (96, 18809), (117, 18872), (131, 18914), (154, 18992), (165, 19040), (175, 19064), (179, 19082), (180, 19088),

Gene: Kahve_24 Start: 18396, Stop: 18818, Start Num: 50

Candidate Starts for Kahve_24:

(32, 18330), (Start: 50 @18396 has 241 MA's), (93, 18519), (95, 18525), (96, 18531), (117, 18594), (131, 18636), (140, 18687), (154, 18714), (165, 18762), (175, 18786), (179, 18804), (180, 18810),

Gene: Kailash_25 Start: 18704, Stop: 19126, Start Num: 49

Candidate Starts for Kailash_25:

(Start: 49 @18704 has 54 MA's), (81, 18776), (93, 18827), (95, 18833), (96, 18839), (117, 18902), (131, 18944), (154, 19022), (165, 19070), (175, 19094), (179, 19112), (180, 19118),

Gene: Kaleb_27 Start: 20951, Stop: 21379, Start Num: 50

Candidate Starts for Kaleb_27:

(39, 20924), (Start: 50 @20951 has 241 MA's), (63, 20966), (95, 21083), (96, 21089), (100, 21116), (111, 21137), (117, 21155), (154, 21275), (156, 21281), (174, 21344), (180, 21371),

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

Candidate Starts for Kamashten_29:

(39, 23199), (Start: 61 @23229 has 90 MA's), (91, 23313), (111, 23388), (120, 23412), (137, 23490), (148, 23511), (174, 23583), (184, 23634),

Gene: Kamiyu_26 Start: 19332, Stop: 19745, Start Num: 60

Candidate Starts for Kamiyu_26:

(Start: 60 @19332 has 43 MA's), (86, 19407), (95, 19452), (96, 19458), (134, 19590), (174, 19716),

Gene: KarasumaRum_27 Start: 19514, Stop: 19930, Start Num: 54

Candidate Starts for KarasumaRum_27:

(Start: 54 @19514 has 17 MA's), (117, 19706), (140, 19799), (181, 19925),

Gene: Katniss_25 Start: 18694, Stop: 19116, Start Num: 50

Candidate Starts for Katniss_25:

(32, 18628), (Start: 50 @18694 has 241 MA's), (93, 18817), (95, 18823), (96, 18829), (117, 18892), (131, 18934), (154, 19012), (165, 19060), (175, 19084), (179, 19102), (180, 19108),

Gene: KayaCho_21 Start: 17836, Stop: 18249, Start Num: 49

Candidate Starts for KayaCho_21:

(Start: 49 @17836 has 54 MA's), (96, 17968), (105, 18004), (117, 18031), (131, 18073), (152, 18148), (154, 18151),

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

Candidate Starts for Keitabear_30:

(39, 24555), (Start: 61 @24585 has 90 MA's), (91, 24669), (111, 24744), (120, 24768), (137, 24846), (148, 24867), (174, 24939), (184, 24990),

Gene: Keitherie_25 Start: 18714, Stop: 19136, Start Num: 49

Candidate Starts for Keitherie_25:

(Start: 49 @18714 has 54 MA's), (81, 18786), (93, 18837), (95, 18843), (96, 18849), (117, 18912), (131, 18954), (154, 19032), (165, 19080), (175, 19104), (179, 19122), (180, 19128),

Gene: Kelcole_31 Start: 20979, Stop: 21374, Start Num: 46

Candidate Starts for Kelcole_31:

(Start: 46 @20979 has 38 MA's), (68, 21021), (73, 21030), (100, 21138), (146, 21252), (160, 21279), (183, 21366),

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

Candidate Starts for Kewpiedoll_29:

(39, 22396), (Start: 61 @22426 has 90 MA's), (91, 22510), (111, 22585), (120, 22609), (137, 22687), (148, 22708), (174, 22780), (184, 22831),

Gene: Kheth_27 Start: 20837, Stop: 21265, Start Num: 50

Candidate Starts for Kheth_27:

(39, 20810), (Start: 50 @20837 has 241 MA's), (63, 20852), (95, 20969), (96, 20975), (100, 21002), (111, 21023), (117, 21041), (154, 21161), (156, 21167), (174, 21230), (180, 21257),

Gene: Kikipoo_25 Start: 18686, Stop: 19108, Start Num: 50

Candidate Starts for Kikipoo_25:

(32, 18620), (Start: 50 @18686 has 241 MA's), (93, 18809), (95, 18815), (96, 18821), (117, 18884), (131, 18926), (140, 18977), (154, 19004), (165, 19052), (175, 19076), (179, 19094), (180, 19100),

Gene: Kimbrough_25 Start: 18388, Stop: 18810, Start Num: 50

Candidate Starts for Kimbrough_25:

(32, 18322), (Start: 50 @18388 has 241 MA's), (93, 18511), (95, 18517), (96, 18523), (117, 18586), (131, 18628), (154, 18706), (165, 18754), (175, 18778), (179, 18796), (180, 18802),

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

Candidate Starts for KimmyK_28:

(Start: 61 @18286 has 90 MA's), (137, 18547), (184, 18703),

Gene: KingVeVeVe_25 Start: 18665, Stop: 19087, Start Num: 50

Candidate Starts for KingVeVeVe_25:

(32, 18599), (Start: 50 @18665 has 241 MA's), (93, 18788), (95, 18794), (96, 18800), (117, 18863), (131, 18905), (154, 18983), (165, 19031), (175, 19055), (179, 19073), (180, 19079),

Gene: Kithara_33 Start: 23575, Stop: 23991, Start Num: 40

Candidate Starts for Kithara_33:

(40, 23575), (73, 23635), (81, 23656), (161, 23896), (172, 23938),

Gene: KlimbOn_25 Start: 18674, Stop: 19096, Start Num: 50

Candidate Starts for KlimbOn_25:

(32, 18608), (Start: 50 @18674 has 241 MA's), (93, 18797), (95, 18803), (96, 18809), (117, 18872), (131, 18914), (154, 18992), (165, 19040), (175, 19064), (179, 19082), (180, 19088),

Gene: Kloppinator_25 Start: 18694, Stop: 19116, Start Num: 50

Candidate Starts for Kloppinator_25:

(32, 18628), (Start: 50 @18694 has 241 MA's), (93, 18817), (95, 18823), (96, 18829), (117, 18892), (131, 18934), (154, 19012), (165, 19060), (175, 19084), (179, 19102), (180, 19108),

Gene: Knocker_27 Start: 21795, Stop: 22214, Start Num: 54

Candidate Starts for Knocker_27:

(Start: 54 @21795 has 17 MA's), (96, 21924), (105, 21960), (125, 22011), (131, 22029), (140, 22080), (154, 22107), (159, 22122), (175, 22179), (179, 22197), (180, 22203),

Gene: Kronus_25 Start: 19946, Stop: 20359, Start Num: 60

Candidate Starts for Kronus_25:

(Start: 60 @19946 has 43 MA's), (95, 20066), (96, 20072), (111, 20120), (134, 20204), (174, 20330),

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

Candidate Starts for Kroos_30:

(48, 22597), (Start: 61 @22606 has 90 MA's), (91, 22690), (111, 22765), (137, 22867), (148, 22888), (168, 22945), (174, 22960), (184, 23011),

Gene: Kwadwo_24 Start: 18378, Stop: 18800, Start Num: 50

Candidate Starts for Kwadwo_24:

(32, 18312), (Start: 50 @18378 has 241 MA's), (93, 18501), (95, 18507), (96, 18513), (117, 18576), (131, 18618), (154, 18696), (165, 18744), (175, 18768), (179, 18786), (180, 18792),

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

Candidate Starts for Kwekel_27:

(Start: 61 @19551 has 90 MA's), (91, 19635), (111, 19710), (119, 19731), (146, 19830), (153, 19845), (174, 19905), (183, 19953), (184, 19956), (185, 19965),

Gene: Kwksand96_24 Start: 18240, Stop: 18662, Start Num: 49

Candidate Starts for Kwksand96_24:

(Start: 49 @18240 has 54 MA's), (93, 18363), (95, 18369), (96, 18375), (117, 18438), (131, 18480), (154, 18558), (165, 18606), (175, 18630), (179, 18648), (180, 18654),

Gene: Kwobi_30 Start: 22592, Stop: 23026, Start Num: 61

Candidate Starts for Kwobi_30:

(48, 22583), (Start: 61 @22592 has 90 MA's), (91, 22676), (111, 22751), (137, 22853), (148, 22874), (168, 22931), (174, 22946), (184, 22997),

Gene: Kyva_35 Start: 22599, Stop: 23012, Start Num: 46

Candidate Starts for Kyva_35:

(31, 22542), (Start: 46 @22599 has 38 MA's), (100, 22758), (146, 22875), (152, 22890),

Gene: Labeouficaum_24 Start: 18236, Stop: 18658, Start Num: 49

Candidate Starts for Labeouficaum_24:

(Start: 49 @18236 has 54 MA's), (93, 18359), (95, 18365), (96, 18371), (117, 18434), (131, 18476), (154, 18554), (165, 18602), (175, 18626), (179, 18644), (180, 18650),

Gene: Lambano_22 Start: 18304, Stop: 18717, Start Num: 57

Candidate Starts for Lambano_22:

(Start: 57 @18304 has 25 MA's), (93, 18418), (95, 18424), (96, 18430), (105, 18466), (117, 18493), (121, 18505), (125, 18517), (131, 18535), (154, 18613), (174, 18682), (180, 18709),

Gene: Lars_27 Start: 20954, Stop: 21382, Start Num: 50

Candidate Starts for Lars_27:

(39, 20927), (Start: 50 @20954 has 241 MA's), (63, 20969), (95, 21086), (96, 21092), (100, 21119), (111, 21140), (117, 21158), (154, 21278), (156, 21284), (174, 21347), (180, 21374),

Gene: LasagnaCat_25 Start: 18680, Stop: 19102, Start Num: 50

Candidate Starts for LasagnaCat_25:

(28, 18590), (32, 18614), (Start: 50 @18680 has 241 MA's), (93, 18803), (95, 18809), (96, 18815), (117, 18878), (131, 18920), (154, 18998), (165, 19046), (175, 19070), (179, 19088), (180, 19094),

Gene: Lasso_25 Start: 18653, Stop: 19075, Start Num: 50

Candidate Starts for Lasso_25:

(32, 18587), (Start: 50 @18653 has 241 MA's), (93, 18776), (95, 18782), (96, 18788), (117, 18851), (131, 18893), (140, 18944), (154, 18971), (165, 19019), (175, 19043), (179, 19061), (180, 19067),

Gene: Laurie_27 Start: 20832, Stop: 21260, Start Num: 50

Candidate Starts for Laurie_27:

(39, 20805), (Start: 50 @20832 has 241 MA's), (63, 20847), (95, 20964), (96, 20970), (100, 20997), (111, 21018), (117, 21036), (131, 21078), (154, 21156), (156, 21162), (174, 21225), (180, 21252),

Gene: LeeLot_25 Start: 18678, Stop: 19100, Start Num: 50

Candidate Starts for LeeLot_25:

(32, 18612), (Start: 50 @18678 has 241 MA's), (93, 18801), (95, 18807), (96, 18813), (117, 18876), (131, 18918), (154, 18996), (165, 19044), (175, 19068), (179, 19086), (180, 19092),

Gene: Lego3393_25 Start: 18690, Stop: 19112, Start Num: 50

Candidate Starts for Lego3393_25:

(32, 18624), (Start: 50 @18690 has 241 MA's), (93, 18813), (95, 18819), (96, 18825), (117, 18888), (131, 18930), (154, 19008), (165, 19056), (175, 19080), (179, 19098), (180, 19104),

Gene: Legolas_24 Start: 18394, Stop: 18816, Start Num: 50

Candidate Starts for Legolas_24:

(32, 18328), (Start: 50 @18394 has 241 MA's), (93, 18517), (95, 18523), (96, 18529), (117, 18592), (131, 18634), (154, 18712), (165, 18760), (175, 18784), (179, 18802), (180, 18808),

Gene: LeiMonet_25 Start: 18385, Stop: 18807, Start Num: 50

Candidate Starts for LeiMonet_25:

(32, 18319), (Start: 50 @18385 has 241 MA's), (93, 18508), (95, 18514), (96, 18520), (117, 18583), (131, 18625), (140, 18676), (154, 18703), (165, 18751), (175, 18775), (179, 18793), (180, 18799),

Gene: LemonSlice_25 Start: 18385, Stop: 18807, Start Num: 50

Candidate Starts for LemonSlice_25:

(32, 18319), (Start: 50 @18385 has 241 MA's), (93, 18508), (95, 18514), (96, 18520), (117, 18583), (131, 18625), (154, 18703), (165, 18751), (175, 18775), (179, 18793), (180, 18799),

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

Candidate Starts for Lennon_30:

(39, 24357), (Start: 61 @24387 has 90 MA's), (91, 24471), (111, 24546), (137, 24648), (148, 24669), (174, 24741), (184, 24792),

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

Candidate Starts for Leonard_28:

(13, 21178), (16, 21214), (41, 21379), (Start: 46 @21382 has 38 MA's), (Start: 61 @21406 has 90 MA's), (91, 21490), (119, 21586), (137, 21667), (141, 21673), (146, 21685), (168, 21745), (176, 21769), (183, 21808), (184, 21811),

Gene: Lephleur_27 Start: 20837, Stop: 21265, Start Num: 50

Candidate Starts for Lephleur_27:

(39, 20810), (Start: 50 @20837 has 241 MA's), (63, 20852), (95, 20969), (96, 20975), (100, 21002), (111, 21023), (117, 21041), (154, 21161), (156, 21167), (174, 21230), (180, 21257),

Gene: LestyG_26 Start: 19367, Stop: 19780, Start Num: 60

Candidate Starts for LestyG_26:

(Start: 60 @19367 has 43 MA's), (86, 19442), (95, 19487), (96, 19493), (134, 19625), (174, 19751),

Gene: Ligma_22 Start: 17225, Stop: 17635, Start Num: 52

Candidate Starts for Ligma_22:

(Start: 52 @17225 has 20 MA's), (86, 17306), (93, 17345), (96, 17357), (108, 17399), (111, 17405), (117, 17423), (138, 17513),

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

Candidate Starts for LilHam_27:

(48, 21177), (Start: 61 @21186 has 90 MA's), (91, 21270), (111, 21345), (137, 21447), (148, 21468), (168, 21525), (174, 21540), (184, 21591),

Gene: LilMcDreamy_22 Start: 19306, Stop: 19722, Start Num: 54

Candidate Starts for LilMcDreamy_22:

(Start: 54 @19306 has 17 MA's), (88, 19393), (95, 19429), (96, 19435), (136, 19570), (154, 19618),

Gene: Lilbeanie_25 Start: 16498, Stop: 16914, Start Num: 58

Candidate Starts for Lilbeanie_25:

(Start: 58 @16498 has 9 MA's), (91, 16585), (153, 16795), (184, 16888),

Gene: LittleMunchkin_24 Start: 20052, Stop: 20465, Start Num: 52

Candidate Starts for LittleMunchkin_24:

(Start: 52 @20052 has 20 MA's), (81, 20121), (86, 20133), (96, 20184), (111, 20232), (154, 20370), (174, 20439),

Gene: LizLemon_27 Start: 20954, Stop: 21382, Start Num: 50

Candidate Starts for LizLemon_27:

(39, 20927), (Start: 50 @20954 has 241 MA's), (63, 20969), (95, 21086), (96, 21092), (100, 21119), (111, 21140), (117, 21158), (154, 21278), (156, 21284), (174, 21347), (180, 21374),

Gene: Llemily_33 Start: 21681, Stop: 22049, Start Num: 67

Candidate Starts for Llemily_33:

(31, 21588), (Start: 46 @21645 has 38 MA's), (67, 21681), (124, 21855), (131, 21876), (149, 21921), (152, 21930), (183, 22035), (185, 22044),

Gene: Lolalove_23 Start: 19333, Stop: 19746, Start Num: 57

Candidate Starts for Lolalove_23:

(Start: 57 @19333 has 25 MA's), (93, 19447), (95, 19453), (96, 19459), (105, 19495), (121, 19534), (125, 19546), (131, 19564), (154, 19642), (165, 19690), (174, 19711), (175, 19714), (180, 19738),

Gene: Lonelysoil_32 Start: 21890, Stop: 22294, Start Num: 46

Candidate Starts for Lonelysoil_32:

(31, 21833), (Start: 46 @21890 has 38 MA's), (67, 21926), (124, 22100), (131, 22121), (149, 22166), (152, 22175), (183, 22280), (185, 22289),

Gene: Longacauda_24 Start: 18380, Stop: 18802, Start Num: 49

Candidate Starts for Longacauda_24:

(Start: 49 @18380 has 54 MA's), (93, 18503), (95, 18509), (96, 18515), (117, 18578), (131, 18620), (154, 18698), (165, 18746), (175, 18770), (179, 18788), (180, 18794),

Gene: Lopsy_24 Start: 18236, Stop: 18658, Start Num: 50

Candidate Starts for Lopsy_24:

(32, 18170), (Start: 50 @18236 has 241 MA's), (93, 18359), (95, 18365), (96, 18371), (117, 18434), (131, 18476), (154, 18554), (165, 18602), (175, 18626), (179, 18644), (180, 18650),

Gene: LostAndPhound_24 Start: 18387, Stop: 18809, Start Num: 50

Candidate Starts for LostAndPhound_24:

(32, 18321), (Start: 50 @18387 has 241 MA's), (93, 18510), (95, 18516), (96, 18522), (117, 18585), (131, 18627), (140, 18678), (154, 18705), (165, 18753), (175, 18777), (179, 18795), (180, 18801),

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

Candidate Starts for Love_33:

(39, 24121), (Start: 61 @24151 has 90 MA's), (91, 24235), (111, 24310), (120, 24334), (137, 24412), (174, 24505), (184, 24556),

Gene: LuckyMarjie_24 Start: 18400, Stop: 18822, Start Num: 50

Candidate Starts for LuckyMarjie_24:

(32, 18334), (Start: 50 @18400 has 241 MA's), (93, 18523), (95, 18529), (96, 18535), (117, 18598), (131, 18640), (154, 18718), (165, 18766), (175, 18790), (179, 18808), (180, 18814),

Gene: Lulumae_24 Start: 18378, Stop: 18800, Start Num: 50

Candidate Starts for Lulumae_24:

(32, 18312), (Start: 50 @18378 has 241 MA's), (93, 18501), (95, 18507), (96, 18513), (117, 18576), (131, 18618), (154, 18696), (165, 18744), (175, 18768), (179, 18786), (180, 18792),

Gene: Lulwa_25 Start: 18665, Stop: 19087, Start Num: 50

Candidate Starts for Lulwa_25:

(32, 18599), (Start: 50 @18665 has 241 MA's), (93, 18788), (95, 18794), (96, 18800), (117, 18863), (131, 18905), (154, 18983), (165, 19031), (175, 19055), (179, 19073), (180, 19079),

Gene: Lumine_24 Start: 18374, Stop: 18796, Start Num: 50

Candidate Starts for Lumine_24:

(32, 18308), (Start: 50 @18374 has 241 MA's), (93, 18497), (95, 18503), (96, 18509), (117, 18572), (131, 18614), (154, 18692), (165, 18740), (175, 18764), (179, 18782), (180, 18788),

Gene: MRabcd_24 Start: 18379, Stop: 18801, Start Num: 50

Candidate Starts for MRabcd_24:

(32, 18313), (Start: 50 @18379 has 241 MA's), (93, 18502), (95, 18508), (96, 18514), (117, 18577), (131, 18619), (140, 18670), (154, 18697), (165, 18745), (175, 18769), (179, 18787), (180, 18793),

Gene: Mag7_24 Start: 18254, Stop: 18676, Start Num: 49

Candidate Starts for Mag7_24:

(Start: 49 @18254 has 54 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (117, 18452), (131, 18494), (154, 18572), (165, 18620), (175, 18644), (179, 18662), (180, 18668),

Gene: Magic8_25 Start: 18692, Stop: 19114, Start Num: 49

Candidate Starts for Magic8_25:

(Start: 49 @18692 has 54 MA's), (81, 18764), (93, 18815), (95, 18821), (96, 18827), (117, 18890), (131, 18932), (154, 19010), (165, 19058), (175, 19082), (179, 19100), (180, 19106),

Gene: Magpie_22 Start: 19156, Stop: 19569, Start Num: 57

Candidate Starts for Magpie_22:

(Start: 57 @19156 has 25 MA's), (93, 19270), (95, 19276), (96, 19282), (105, 19318), (121, 19357), (125, 19369), (131, 19387), (154, 19465), (174, 19534), (175, 19537), (180, 19561),

Gene: Maih_19 Start: 19234, Stop: 19614, Start Num: 78

Candidate Starts for Maih_19:

(9, 18784), (24, 19066), (Start: 78 @19234 has 7 MA's), (85, 19249), (94, 19291), (106, 19336), (135, 19426), (142, 19456), (162, 19507), (164, 19522), (170, 19549), (173, 19552),

Gene: MakoManhole_24 Start: 18622, Stop: 19032, Start Num: 52

Candidate Starts for MakoManhole_24:

(Start: 52 @18622 has 20 MA's), (101, 18784), (108, 18796), (131, 18862), (134, 18886), (145, 18925), (154, 18940),

Gene: Mana_24 Start: 18381, Stop: 18803, Start Num: 50

Candidate Starts for Mana_24:

(32, 18315), (Start: 50 @18381 has 241 MA's), (93, 18504), (95, 18510), (96, 18516), (117, 18579), (131, 18621), (140, 18672), (154, 18699), (165, 18747), (175, 18771), (179, 18789), (180, 18795),

Gene: Manad_24 Start: 18231, Stop: 18653, Start Num: 50

Candidate Starts for Manad_24:

(32, 18165), (Start: 50 @18231 has 241 MA's), (93, 18354), (95, 18360), (96, 18366), (117, 18429), (131, 18471), (154, 18549), (165, 18597), (175, 18621), (179, 18639), (180, 18645),

Gene: Mao1_21 Start: 16621, Stop: 17025, Start Num: 55

Candidate Starts for Mao1_21:

(Start: 55 @16621 has 4 MA's), (86, 16699), (95, 16744), (96, 16750), (109, 16795), (117, 16816), (131, 16858), (134, 16882), (140, 16909), (147, 16921), (171, 16999),

Gene: Marcie_37 Start: 21635, Stop: 22030, Start Num: 46

Candidate Starts for Marcie_37:

(Start: 46 @21635 has 38 MA's), (68, 21677), (122, 21845), (160, 21935), (183, 22022),

Gene: Mareelih_94 Start: 51401, Stop: 51808, Start Num: 59

Candidate Starts for Mareelih_94:

(56, 51398), (Start: 59 @51401 has 7 MA's), (72, 51437), (89, 51491), (93, 51512), (126, 51614), (130, 51626), (133, 51668), (134, 51677), (140, 51704), (159, 51746), (165, 51779), (169, 51791), (174, 51800),

Gene: Mariokart_22 Start: 17119, Stop: 17532, Start Num: 52

Candidate Starts for Mariokart_22:

(1, 16399), (2, 16444), (3, 16510), (4, 16582), (7, 16648), (26, 17020), (Start: 42 @17098 has 1 MA's), (Start: 52 @17119 has 20 MA's), (86, 17200), (88, 17209), (95, 17245), (96, 17251), (111, 17299), (131, 17359),

Gene: Marley1013_26 Start: 20148, Stop: 20561, Start Num: 60

Candidate Starts for Marley1013_26:

(Start: 60 @20148 has 43 MA's), (95, 20268), (96, 20274), (111, 20322), (134, 20406), (174, 20532),

Gene: Maru_24 Start: 18380, Stop: 18802, Start Num: 50

Candidate Starts for Maru_24:

(32, 18314), (Start: 50 @18380 has 241 MA's), (93, 18503), (95, 18509), (96, 18515), (117, 18578), (131, 18620), (154, 18698), (165, 18746), (175, 18770), (179, 18788), (180, 18794),

Gene: Mashley_31 Start: 22162, Stop: 22575, Start Num: 46

Candidate Starts for Mashley_31:

(31, 22105), (Start: 46 @22162 has 38 MA's), (81, 22234), (100, 22321), (146, 22438), (152, 22453),

Gene: Mask_22 Start: 16622, Stop: 17026, Start Num: 55

Candidate Starts for Mask_22:

(Start: 55 @16622 has 4 MA's), (86, 16700), (95, 16745), (96, 16751), (109, 16796), (117, 16817), (131, 16859), (134, 16883), (140, 16910), (147, 16922), (171, 17000),

Gene: Maskar_24 Start: 18226, Stop: 18648, Start Num: 49

Candidate Starts for Maskar_24:

(Start: 49 @18226 has 54 MA's), (93, 18349), (95, 18355), (96, 18361), (117, 18424), (131, 18466), (154, 18544), (165, 18592), (175, 18616), (179, 18634), (180, 18640),

Gene: MasterPo_27 Start: 20834, Stop: 21262, Start Num: 50

Candidate Starts for MasterPo_27:

(39, 20807), (Start: 50 @20834 has 241 MA's), (63, 20849), (95, 20966), (96, 20972), (100, 20999), (111, 21020), (117, 21038), (154, 21158), (156, 21164), (174, 21227), (180, 21254),

Gene: Matalotodo_25 Start: 18673, Stop: 19095, Start Num: 50

Candidate Starts for Matalotodo_25:

(32, 18607), (Start: 50 @18673 has 241 MA's), (93, 18796), (95, 18802), (96, 18808), (117, 18871), (131, 18913), (154, 18991), (165, 19039), (175, 19063), (179, 19081), (180, 19087),

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

Candidate Starts for McKinley_32:

(39, 24153), (Start: 61 @24183 has 90 MA's), (91, 24267), (111, 24342), (120, 24366), (137, 24444), (174, 24537), (184, 24588),

Gene: Mcshane_24 Start: 18376, Stop: 18798, Start Num: 50

Candidate Starts for Mcshane_24:

(32, 18310), (Start: 50 @18376 has 241 MA's), (93, 18499), (95, 18505), (96, 18511), (117, 18574), (131, 18616), (154, 18694), (165, 18742), (175, 18766), (179, 18784), (180, 18790),

Gene: Mecca_24 Start: 18373, Stop: 18795, Start Num: 50

Candidate Starts for Mecca_24:

(32, 18307), (Start: 50 @18373 has 241 MA's), (93, 18496), (95, 18502), (96, 18508), (117, 18571), (131, 18613), (154, 18691), (165, 18739), (175, 18763), (179, 18781), (180, 18787),

Gene: Megabear_19 Start: 18137, Stop: 18547, Start Num: 58

Candidate Starts for Megabear_19:

(Start: 58 @18137 has 9 MA's), (86, 18212), (95, 18257), (96, 18263), (108, 18305), (117, 18329), (124, 18350), (152, 18452), (165, 18497),

Gene: Megamind20_25 Start: 18394, Stop: 18816, Start Num: 50

Candidate Starts for Megamind20_25:

(32, 18328), (Start: 50 @18394 has 241 MA's), (93, 18517), (95, 18523), (96, 18529), (117, 18592), (131, 18634), (154, 18712), (165, 18760), (175, 18784), (179, 18802), (180, 18808),

Gene: Megatron_25 Start: 18677, Stop: 19099, Start Num: 50

Candidate Starts for Megatron_25:

(32, 18611), (Start: 50 @18677 has 241 MA's), (93, 18800), (95, 18806), (96, 18812), (117, 18875), (131, 18917), (140, 18968), (154, 18995), (165, 19043), (175, 19067), (179, 19085), (180, 19091),

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

Candidate Starts for MelBins_29:

(16, 21422), (41, 21587), (Start: 61 @21614 has 90 MA's), (91, 21698), (119, 21794), (137, 21875), (141, 21881), (146, 21893), (168, 21953), (176, 21977), (183, 22016), (184, 22019),

Gene: Melc17_25 Start: 18668, Stop: 19090, Start Num: 49

Candidate Starts for Melc17_25:

(Start: 49 @18668 has 54 MA's), (93, 18791), (95, 18797), (96, 18803), (117, 18866), (131, 18908), (154, 18986), (165, 19034), (175, 19058), (179, 19076), (180, 19082),

Gene: MelsMeow_24 Start: 18254, Stop: 18676, Start Num: 49

Candidate Starts for MelsMeow_24:

(Start: 49 @18254 has 54 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (117, 18452), (131, 18494), (154, 18572), (165, 18620), (175, 18644), (179, 18662), (180, 18668),

Gene: Mesh1_25 Start: 18685, Stop: 19107, Start Num: 50

Candidate Starts for Mesh1_25:

(32, 18619), (Start: 50 @18685 has 241 MA's), (93, 18808), (95, 18814), (96, 18820), (117, 18883), (131, 18925), (154, 19003), (165, 19051), (175, 19075), (179, 19093), (180, 19099),

Gene: MichaelPhcott_24 Start: 18254, Stop: 18676, Start Num: 49

Candidate Starts for MichaelPhcott_24:

(Start: 49 @18254 has 54 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (117, 18452), (131, 18494), (154, 18572), (165, 18620), (175, 18644), (179, 18662), (180, 18668),

Gene: Mikota_25 Start: 18661, Stop: 19083, Start Num: 50

Candidate Starts for Mikota_25:

(32, 18595), (Start: 50 @18661 has 241 MA's), (93, 18784), (95, 18790), (96, 18796), (117, 18859), (131, 18901), (154, 18979), (165, 19027), (175, 19051), (179, 19069), (180, 19075),

Gene: MiniBoss_25 Start: 18664, Stop: 19086, Start Num: 50

Candidate Starts for MiniBoss_25:

(32, 18598), (Start: 50 @18664 has 241 MA's), (93, 18787), (95, 18793), (96, 18799), (117, 18862), (131, 18904), (154, 18982), (165, 19030), (175, 19054), (179, 19072), (180, 19078),

Gene: Mischief19_27 Start: 29157, Stop: 29531, Start Num: 80

Candidate Starts for Mischief19_27:

(Start: 80 @29157 has 4 MA's), (106, 29256), (128, 29316), (135, 29346), (139, 29370),

Gene: MitKao_25 Start: 18382, Stop: 18804, Start Num: 50

Candidate Starts for MitKao_25:

(32, 18316), (Start: 50 @18382 has 241 MA's), (93, 18505), (95, 18511), (96, 18517), (117, 18580), (131, 18622), (154, 18700), (165, 18748), (175, 18772), (179, 18790), (180, 18796),

Gene: Mithril_23 Start: 19337, Stop: 19750, Start Num: 57

Candidate Starts for Mithril_23:

(Start: 57 @19337 has 25 MA's), (93, 19451), (95, 19457), (96, 19463), (105, 19499), (121, 19538), (125, 19550), (131, 19568), (154, 19646), (174, 19715), (175, 19718), (180, 19742),

Gene: MmasiCarm_26 Start: 19358, Stop: 19771, Start Num: 60

Candidate Starts for MmasiCarm_26:

(Start: 60 @19358 has 43 MA's), (95, 19478), (96, 19484), (111, 19532), (134, 19616), (174, 19742),

Gene: MoontowerMania_29 Start: 22994, Stop: 23428, Start Num: 61

Candidate Starts for MoontowerMania_29:

(19, 22829), (39, 22964), (Start: 61 @22994 has 90 MA's), (91, 23078), (111, 23153), (137, 23255), (148, 23276), (174, 23348), (184, 23399),

Gene: Morgushi_25 Start: 18387, Stop: 18809, Start Num: 50

Candidate Starts for Morgushi_25:

(32, 18321), (Start: 50 @18387 has 241 MA's), (93, 18510), (95, 18516), (96, 18522), (117, 18585), (131, 18627), (154, 18705), (165, 18753), (175, 18777), (179, 18795), (180, 18801),

Gene: MorillMayhem_32 Start: 22160, Stop: 22564, Start Num: 46

Candidate Starts for MorillMayhem_32:

(31, 22103), (Start: 46 @22160 has 38 MA's), (67, 22196), (124, 22370), (131, 22391), (149, 22436), (152, 22445), (183, 22550), (185, 22559),

Gene: Mortcellus_25 Start: 20001, Stop: 20414, Start Num: 60

Candidate Starts for Mortcellus_25:

(Start: 60 @20001 has 43 MA's), (95, 20121), (96, 20127), (111, 20175), (134, 20259), (174, 20385),

Gene: Morty_25 Start: 18686, Stop: 19108, Start Num: 50

Candidate Starts for Morty_25:

(32, 18620), (Start: 50 @18686 has 241 MA's), (93, 18809), (95, 18815), (96, 18821), (117, 18884), (131, 18926), (140, 18977), (154, 19004), (165, 19052), (175, 19076), (179, 19094), (180, 19100),

Gene: Morty007_26 Start: 20148, Stop: 20561, Start Num: 60

Candidate Starts for Morty007_26:

(Start: 60 @20148 has 43 MA's), (95, 20268), (96, 20274), (111, 20322), (134, 20406), (174, 20532),

Gene: Mosaic_24 Start: 18388, Stop: 18810, Start Num: 50

Candidate Starts for Mosaic_24:

(32, 18322), (Start: 50 @18388 has 241 MA's), (93, 18511), (95, 18517), (96, 18523), (117, 18586), (131, 18628), (154, 18706), (165, 18754), (175, 18778), (179, 18796), (180, 18802),

Gene: MossRose_24 Start: 18601, Stop: 19011, Start Num: 52

Candidate Starts for MossRose_24:

(Start: 52 @18601 has 20 MA's), (101, 18763), (108, 18775), (131, 18841), (134, 18865), (145, 18904), (154, 18919), (175, 18991),

Gene: MrPhizzler_24 Start: 18387, Stop: 18809, Start Num: 49

Candidate Starts for MrPhizzler_24:

(Start: 49 @18387 has 54 MA's), (93, 18510), (95, 18516), (96, 18522), (117, 18585), (131, 18627), (154, 18705), (165, 18753), (175, 18777), (179, 18795), (180, 18801),

Gene: Mudslide_23 Start: 19584, Stop: 19997, Start Num: 57

Candidate Starts for Mudslide_23:

(Start: 57 @19584 has 25 MA's), (93, 19698), (95, 19704), (96, 19710), (105, 19746), (121, 19785), (125, 19797), (131, 19815), (154, 19893), (159, 19908), (174, 19962), (175, 19965), (180, 19989),

Gene: Mulan_24 Start: 18382, Stop: 18804, Start Num: 50

Candidate Starts for Mulan_24:

(32, 18316), (Start: 50 @18382 has 241 MA's), (93, 18505), (95, 18511), (96, 18517), (117, 18580), (131, 18622), (154, 18700), (165, 18748), (175, 18772), (179, 18790), (180, 18796),

Gene: Murdoc_25 Start: 18675, Stop: 19097, Start Num: 50

Candidate Starts for Murdoc_25:

(32, 18609), (Start: 50 @18675 has 241 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: Mutante_24 Start: 18385, Stop: 18807, Start Num: 50

Candidate Starts for Mutante_24:

(32, 18319), (Start: 50 @18385 has 241 MA's), (93, 18508), (95, 18514), (96, 18520), (117, 18583), (131, 18625), (154, 18703), (165, 18751), (175, 18775), (179, 18793), (180, 18799),

Gene: Mutzi_28 Start: 18027, Stop: 18470, Start Num: 61

Candidate Starts for Mutzi_28:

(14, 17811), (Start: 61 @18027 has 90 MA's), (184, 18444),

Gene: Mysterious_26 Start: 19640, Stop: 20056, Start Num: 54

Candidate Starts for Mysterious_26:

(Start: 54 @19640 has 17 MA's), (77, 19700), (95, 19763), (96, 19769), (131, 19874), (136, 19904), (154, 19952),

Gene: Nacho_0025 Start: 18674, Stop: 19096, Start Num: 50

Candidate Starts for Nacho_0025:

(32, 18608), (Start: 50 @18674 has 241 MA's), (93, 18797), (95, 18803), (96, 18809), (117, 18872), (131, 18914), (154, 18992), (165, 19040), (175, 19064), (179, 19082), (180, 19088),

Gene: Namago_33 Start: 21729, Stop: 22142, Start Num: 46

Candidate Starts for Namago_33:

(31, 21672), (Start: 46 @21729 has 38 MA's), (100, 21888), (146, 22005), (152, 22020),

Gene: Nanao_22 Start: 18303, Stop: 18716, Start Num: 57

Candidate Starts for Nanao_22:

(Start: 57 @18303 has 25 MA's), (93, 18417), (95, 18423), (96, 18429), (105, 18465), (117, 18492), (121, 18504), (125, 18516), (131, 18534), (154, 18612), (174, 18681), (180, 18708),

Gene: Nangang_25 Start: 19342, Stop: 19758, Start Num: 54

Candidate Starts for Nangang_25:

(Start: 54 @19342 has 17 MA's), (117, 19534), (131, 19576), (140, 19627), (181, 19753),

Gene: Natkenzie_30 Start: 22964, Stop: 23395, Start Num: 61

Candidate Starts for Natkenzie_30:

(33, 22904), (41, 22937), (Start: 61 @22964 has 90 MA's), (97, 23093), (111, 23123), (137, 23225), (141, 23231), (148, 23246), (168, 23303), (174, 23318), (183, 23366), (184, 23369),

Gene: Nehemiah_24 Start: 19640, Stop: 20056, Start Num: 54

Candidate Starts for Nehemiah_24:

(Start: 54 @19640 has 17 MA's), (77, 19700), (95, 19763), (96, 19769), (131, 19874), (136, 19904), (154, 19952),

Gene: Neos5_26 Start: 20155, Stop: 20568, Start Num: 60

Candidate Starts for Neos5_26:

(Start: 60 @20155 has 43 MA's), (86, 20230), (95, 20275), (96, 20281), (134, 20413), (174, 20539),

Gene: Newman_25 Start: 18674, Stop: 19096, Start Num: 50

Candidate Starts for Newman_25:

(32, 18608), (Start: 50 @18674 has 241 MA's), (93, 18797), (95, 18803), (96, 18809), (117, 18872), (131, 18914), (154, 18992), (165, 19040), (175, 19064), (179, 19082), (180, 19088),

Gene: Nicole21_25 Start: 18666, Stop: 19088, Start Num: 50

Candidate Starts for Nicole21_25:

(32, 18600), (Start: 50 @18666 has 241 MA's), (93, 18789), (95, 18795), (96, 18801), (117, 18864), (131, 18906), (154, 18984), (165, 19032), (175, 19056), (179, 19074), (180, 19080),

Gene: Nigel_21 Start: 18187, Stop: 18600, Start Num: 57

Candidate Starts for Nigel_21:

(Start: 57 @18187 has 25 MA's), (96, 18313), (117, 18376), (121, 18388), (131, 18418), (180, 18592),

Gene: Nike_33 Start: 22681, Stop: 23094, Start Num: 46

Candidate Starts for Nike_33:

(31, 22624), (Start: 46 @22681 has 38 MA's), (100, 22840), (146, 22957), (152, 22972),

Gene: Nordenberg_24 Start: 22353, Stop: 22787, Start Num: 61

Candidate Starts for Nordenberg_24:

(39, 22323), (Start: 61 @22353 has 90 MA's), (91, 22437), (111, 22512), (120, 22536), (137, 22614), (174, 22707), (184, 22758),

Gene: Nozo_26 Start: 20125, Stop: 20538, Start Num: 60

Candidate Starts for Nozo_26:

(Start: 60 @20125 has 43 MA's), (86, 20200), (95, 20245), (96, 20251), (134, 20383), (174, 20509),

Gene: Nubi_26 Start: 17592, Stop: 18035, Start Num: 61

Candidate Starts for Nubi_26:

(Start: 61 @17592 has 90 MA's), (137, 17853), (184, 18009),

Gene: Numberten_25 Start: 18679, Stop: 19101, Start Num: 50

Candidate Starts for Numberten_25:

(32, 18613), (Start: 50 @18679 has 241 MA's), (93, 18802), (95, 18808), (96, 18814), (117, 18877), (131, 18919), (154, 18997), (165, 19045), (175, 19069), (179, 19087), (180, 19093),

Gene: Nyala_24 Start: 18377, Stop: 18799, Start Num: 50

Candidate Starts for Nyala_24:

(32, 18311), (Start: 50 @18377 has 241 MA's), (93, 18500), (95, 18506), (96, 18512), (117, 18575), (131, 18617), (154, 18695), (165, 18743), (175, 18767), (179, 18785), (180, 18791),

Gene: OSmaximus_25 Start: 18703, Stop: 19125, Start Num: 49

Candidate Starts for OSmaximus_25:

(Start: 49 @18703 has 54 MA's), (81, 18775), (93, 18826), (95, 18832), (96, 18838), (117, 18901), (131, 18943), (154, 19021), (165, 19069), (175, 19093), (179, 19111), (180, 19117),

Gene: Obutu_26 Start: 19358, Stop: 19771, Start Num: 60

Candidate Starts for Obutu_26:

(Start: 60 @19358 has 43 MA's), (86, 19433), (95, 19478), (96, 19484), (134, 19616), (174, 19742),

Gene: Olak_24 Start: 18378, Stop: 18800, Start Num: 50

Candidate Starts for Olak_24:

(32, 18312), (Start: 50 @18378 has 241 MA's), (93, 18501), (95, 18507), (96, 18513), (117, 18576), (131, 18618), (154, 18696), (165, 18744), (175, 18768), (179, 18786), (180, 18792),

Gene: Oline_24 Start: 18240, Stop: 18662, Start Num: 49

Candidate Starts for Oline_24:

(Start: 49 @18240 has 54 MA's), (93, 18363), (95, 18369), (96, 18375), (117, 18438), (131, 18480), (154, 18558), (165, 18606), (175, 18630), (179, 18648), (180, 18654),

Gene: Olive_25 Start: 18667, Stop: 19089, Start Num: 50

Candidate Starts for Olive_25:

(32, 18601), (Start: 50 @18667 has 241 MA's), (93, 18790), (95, 18796), (96, 18802), (117, 18865), (131, 18907), (154, 18985), (165, 19033), (175, 19057), (179, 19075), (180, 19081),

Gene: OliverWalter_25 Start: 18683, Stop: 19105, Start Num: 50

Candidate Starts for OliverWalter_25:

(32, 18617), (Start: 50 @18683 has 241 MA's), (93, 18806), (95, 18812), (96, 18818), (117, 18881), (131, 18923), (154, 19001), (165, 19049), (175, 19073), (179, 19091), (180, 19097),

Gene: Omniscient_25 Start: 18686, Stop: 19108, Start Num: 50

Candidate Starts for Omniscient_25:

(32, 18620), (Start: 50 @18686 has 241 MA's), (93, 18809), (95, 18815), (96, 18821), (117, 18884), (131, 18926), (154, 19004), (165, 19052), (175, 19076), (179, 19094), (180, 19100),

Gene: OneinaGillian_32 Start: 20626, Stop: 21021, Start Num: 46

Candidate Starts for OneinaGillian_32:

(Start: 46 @20626 has 38 MA's), (73, 20677), (100, 20785), (131, 20860), (160, 20926), (183, 21013),

Gene: Oosterbaan_25 Start: 18678, Stop: 19100, Start Num: 50

Candidate Starts for Oosterbaan_25:

(32, 18612), (Start: 50 @18678 has 241 MA's), (93, 18801), (95, 18807), (96, 18813), (117, 18876), (131, 18918), (140, 18969), (154, 18996), (165, 19044), (175, 19068), (179, 19086), (180, 19092),

Gene: Opia_27 Start: 20834, Stop: 21262, Start Num: 50

Candidate Starts for Opia_27:

(39, 20807), (Start: 50 @20834 has 241 MA's), (63, 20849), (95, 20966), (96, 20972), (100, 20999), (111, 21020), (117, 21038), (154, 21158), (156, 21164), (174, 21227), (180, 21254),

Gene: OrangeOswald_26 Start: 19363, Stop: 19776, Start Num: 60

Candidate Starts for OrangeOswald_26:

(Start: 60 @19363 has 43 MA's), (86, 19438), (95, 19483), (96, 19489), (134, 19621), (174, 19747),

Gene: Orfeu_24 Start: 18379, Stop: 18801, Start Num: 50

Candidate Starts for Orfeu_24:

(32, 18313), (Start: 50 @18379 has 241 MA's), (93, 18502), (95, 18508), (96, 18514), (117, 18577), (131, 18619), (154, 18697), (165, 18745), (175, 18769), (179, 18787), (180, 18793),

Gene: Orion_25 Start: 18675, Stop: 19097, Start Num: 50

Candidate Starts for Orion_25:

(32, 18609), (Start: 50 @18675 has 241 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (140, 18966), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: Orwigg_25 Start: 18372, Stop: 18794, Start Num: 50

Candidate Starts for Orwigg_25:

(32, 18306), (Start: 50 @18372 has 241 MA's), (93, 18495), (95, 18501), (96, 18507), (117, 18570), (131, 18612), (154, 18690), (165, 18738), (175, 18762), (179, 18780), (180, 18786),

Gene: PG1_25 Start: 18688, Stop: 19110, Start Num: 50

Candidate Starts for PG1_25:

(32, 18622), (Start: 50 @18688 has 241 MA's), (93, 18811), (95, 18817), (96, 18823), (117, 18886), (131, 18928), (140, 18979), (154, 19006), (165, 19054), (175, 19078), (179, 19096), (180, 19102),

Gene: PR_19 Start: 18164, Stop: 18574, Start Num: 58

Candidate Starts for PR_19:

(Start: 58 @18164 has 9 MA's), (86, 18239), (95, 18284), (96, 18290), (108, 18332), (117, 18356), (124, 18377), (152, 18479), (165, 18524),

Gene: Pacifista_24 Start: 18379, Stop: 18801, Start Num: 50

Candidate Starts for Pacifista_24:

(32, 18313), (Start: 50 @18379 has 241 MA's), (93, 18502), (95, 18508), (96, 18514), (117, 18577), (131, 18619), (154, 18697), (165, 18745), (175, 18769), (179, 18787), (180, 18793),

Gene: Paries_32 Start: 23819, Stop: 24253, Start Num: 61

Candidate Starts for Paries_32:

(39, 23780), (Start: 61 @23819 has 90 MA's), (91, 23903), (111, 23978), (120, 24002), (137, 24080), (148, 24101), (174, 24173), (184, 24224),

Gene: Patbob_88 Start: 53640, Stop: 54023, Start Num: 59

Candidate Starts for Patbob_88:

(Start: 59 @53640 has 7 MA's), (72, 53679), (97, 53781), (106, 53805), (116, 53826), (126, 53856), (129, 53865), (140, 53919), (154, 53946), (158, 53958),

Gene: PauloDiaboli_94 Start: 50046, Stop: 50456, Start Num: 43

Candidate Starts for PauloDiaboli_94:

(Start: 43 @50046 has 4 MA's), (81, 50133), (82, 50136), (91, 50166), (154, 50376), (160, 50394),

Gene: PenguinLover67_27 Start: 20904, Stop: 21338, Start Num: 52

Candidate Starts for PenguinLover67_27:

(Start: 52 @20904 has 20 MA's), (79, 20970), (88, 20994), (95, 21030), (96, 21036), (105, 21072), (117, 21099), (174, 21288),

Gene: Pepe25_31 Start: 20844, Stop: 21239, Start Num: 46

Candidate Starts for Pepe25_31:

(Start: 46 @20844 has 38 MA's), (68, 20886), (73, 20895), (100, 21003), (160, 21144), (181, 21213), (183, 21231),

Gene: Phabia_33 Start: 22063, Stop: 22467, Start Num: 46

Candidate Starts for Phabia_33:

(31, 22006), (Start: 46 @22063 has 38 MA's), (67, 22099), (124, 22273), (131, 22294), (149, 22339), (152, 22348), (183, 22453), (185, 22462),

Gene: Phamished_25 Start: 18683, Stop: 19105, Start Num: 50

Candidate Starts for Phamished_25:

(32, 18617), (Start: 50 @18683 has 241 MA's), (93, 18806), (95, 18812), (96, 18818), (117, 18881), (131, 18923), (154, 19001), (165, 19049), (175, 19073), (179, 19091), (180, 19097),

Gene: Phantasmagoria_27 Start: 20830, Stop: 21258, Start Num: 50

Candidate Starts for Phantasmagoria_27:

(39, 20803), (Start: 50 @20830 has 241 MA's), (63, 20845), (95, 20962), (96, 20968), (100, 20995), (111, 21016), (117, 21034), (154, 21154), (156, 21160), (174, 21223), (180, 21250),

Gene: Phareon_25 Start: 18383, Stop: 18805, Start Num: 50

Candidate Starts for Phareon_25:

(32, 18317), (Start: 50 @18383 has 241 MA's), (93, 18506), (95, 18512), (96, 18518), (117, 18581), (131, 18623), (154, 18701), (165, 18749), (175, 18773), (179, 18791), (180, 18797),

Gene: PhatCats2014_25 Start: 18693, Stop: 19115, Start Num: 50

Candidate Starts for PhatCats2014_25:

(32, 18627), (Start: 50 @18693 has 241 MA's), (93, 18816), (95, 18822), (96, 18828), (117, 18891), (131, 18933), (154, 19011), (165, 19059), (175, 19083), (179, 19101), (180, 19107),

Gene: PhatLouie_25 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for PhatLouie_25:

(Start: 49 @18675 has 54 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: Phauci_21 Start: 17995, Stop: 18426, Start Num: 61

Candidate Starts for Phauci_21:

(16, 17803), (41, 17968), (Start: 61 @17995 has 90 MA's), (91, 18079), (119, 18175), (137, 18256), (141, 18262), (146, 18274), (168, 18334), (176, 18358), (183, 18397), (184, 18400),

Gene: Phayeta_26 Start: 19239, Stop: 19652, Start Num: 60

Candidate Starts for Phayeta_26:

(Start: 60 @19239 has 43 MA's), (86, 19314), (95, 19359), (96, 19365), (134, 19497), (174, 19623),

Gene: Phelemich_25 Start: 19636, Stop: 20052, Start Num: 54

Candidate Starts for Phelemich_25:

(Start: 54 @19636 has 17 MA's), (77, 19696), (95, 19759), (96, 19765), (131, 19870), (136, 19900), (154, 19948), (181, 20047),

Gene: Phendrix_82 Start: 43488, Stop: 43901, Start Num: 43

Candidate Starts for Phendrix_82:

(Start: 43 @43488 has 4 MA's), (65, 43521), (92, 43614), (96, 43638), (103, 43671), (115, 43698), (117, 43701), (136, 43773), (140, 43794), (158, 43833), (175, 43893),

Gene: PhenghisKhan_24 Start: 18254, Stop: 18676, Start Num: 49

Candidate Starts for PhenghisKhan_24:

(Start: 49 @18254 has 54 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (117, 18452), (131, 18494), (154, 18572), (165, 18620), (175, 18644), (179, 18662), (180, 18668),

Gene: Pherdinand_25 Start: 18683, Stop: 19105, Start Num: 50

Candidate Starts for Pherdinand_25:

(32, 18617), (Start: 50 @18683 has 241 MA's), (93, 18806), (95, 18812), (96, 18818), (117, 18881), (131, 18923), (154, 19001), (165, 19049), (175, 19073), (179, 19091), (180, 19097),

Gene: Phergie_24 Start: 18248, Stop: 18670, Start Num: 49

Candidate Starts for Phergie_24:

(Start: 49 @18248 has 54 MA's), (81, 18320), (93, 18371), (95, 18377), (96, 18383), (117, 18446), (131, 18488), (154, 18566), (165, 18614), (175, 18638), (179, 18656), (180, 18662),

Gene: Philly_25 Start: 19229, Stop: 19642, Start Num: 60

Candidate Starts for Philly_25:

(Start: 60 @19229 has 43 MA's), (86, 19304), (95, 19349), (96, 19355), (134, 19487), (174, 19613),

Gene: Phinally_28 Start: 21403, Stop: 21834, Start Num: 61

Candidate Starts for Phinally_28:

(13, 21175), (16, 21211), (41, 21376), (Start: 46 @21379 has 38 MA's), (Start: 61 @21403 has 90 MA's), (91, 21487), (119, 21583), (137, 21664), (141, 21670), (146, 21682), (168, 21742), (176, 21766), (183, 21805), (184, 21808),

Gene: Phinky_39 Start: 23231, Stop: 23650, Start Num: 46
Candidate Starts for Phinky_39:
(35, 23201), (Start: 46 @23231 has 38 MA's), (67, 23267), (69, 23276), (92, 23342), (131, 23465),
(152, 23522), (185, 23645),

Gene: Phipps_25 Start: 18653, Stop: 19075, Start Num: 50
Candidate Starts for Phipps_25:
(32, 18587), (Start: 50 @18653 has 241 MA's), (93, 18776), (95, 18782), (96, 18788), (117, 18851),
(131, 18893), (154, 18971), (165, 19019), (175, 19043), (179, 19061), (180, 19067),

Gene: Phleuron_24 Start: 18254, Stop: 18676, Start Num: 49
Candidate Starts for Phleuron_24:
(Start: 49 @18254 has 54 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (117, 18452),
(131, 18494), (154, 18572), (165, 18620), (175, 18644), (179, 18662), (180, 18668),

Gene: Phlop_26 Start: 17656, Stop: 18099, Start Num: 61
Candidate Starts for Phlop_26:
(Start: 61 @17656 has 90 MA's), (137, 17917), (184, 18073),

Gene: Phlyer_26 Start: 20098, Stop: 20511, Start Num: 60
Candidate Starts for Phlyer_26:
(Start: 60 @20098 has 43 MA's), (95, 20218), (96, 20224), (111, 20272), (134, 20356), (174, 20482),

Gene: Phrampa_81 Start: 50368, Stop: 50751, Start Num: 59
Candidate Starts for Phrampa_81:
(Start: 59 @50368 has 7 MA's), (72, 50407), (95, 50488), (97, 50509), (106, 50533), (127, 50590),
(129, 50593), (140, 50647), (154, 50674),

Gene: PhrankReynolds_24 Start: 18254, Stop: 18676, Start Num: 49
Candidate Starts for PhrankReynolds_24:
(Start: 49 @18254 has 54 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (117, 18452),
(131, 18494), (154, 18572), (165, 18620), (175, 18644), (179, 18662), (180, 18668),

Gene: PhrodoBaggins_24 Start: 18671, Stop: 19093, Start Num: 50
Candidate Starts for PhrodoBaggins_24:
(32, 18605), (Start: 50 @18671 has 241 MA's), (93, 18794), (95, 18800), (96, 18806), (117, 18869),
(131, 18911), (154, 18989), (165, 19037), (175, 19061), (179, 19079), (180, 19085),

Gene: Phunky_25 Start: 18677, Stop: 19099, Start Num: 50
Candidate Starts for Phunky_25:
(32, 18611), (Start: 50 @18677 has 241 MA's), (93, 18800), (95, 18806), (96, 18812), (117, 18875),
(131, 18917), (154, 18995), (165, 19043), (175, 19067), (179, 19085), (180, 19091),

Gene: Piglet_0024 Start: 18677, Stop: 19099, Start Num: 50
Candidate Starts for Piglet_0024:
(32, 18611), (Start: 50 @18677 has 241 MA's), (93, 18800), (95, 18806), (96, 18812), (117, 18875),
(131, 18917), (154, 18995), (165, 19043), (175, 19067), (179, 19085), (180, 19091),

Gene: Pine5_25 Start: 19604, Stop: 20017, Start Num: 51
Candidate Starts for Pine5_25:
(51, 19604), (53, 19607), (93, 19727), (117, 19805), (177, 20009),

Gene: PinheadLarry_25 Start: 18394, Stop: 18816, Start Num: 50

Candidate Starts for PinheadLarry_25:

(32, 18328), (Start: 50 @18394 has 241 MA's), (93, 18517), (95, 18523), (96, 18529), (117, 18592), (131, 18634), (154, 18712), (165, 18760), (175, 18784), (179, 18802), (180, 18808),

Gene: PinkCoffee_28 Start: 18295, Stop: 18738, Start Num: 61

Candidate Starts for PinkCoffee_28:

(Start: 61 @18295 has 90 MA's), (137, 18556), (184, 18712),

Gene: Pinkman_24 Start: 18234, Stop: 18656, Start Num: 49

Candidate Starts for Pinkman_24:

(Start: 49 @18234 has 54 MA's), (93, 18357), (95, 18363), (96, 18369), (117, 18432), (131, 18474), (154, 18552), (165, 18600), (175, 18624), (179, 18642), (180, 18648),

Gene: Pipefish_26 Start: 20248, Stop: 20661, Start Num: 60

Candidate Starts for Pipefish_26:

(Start: 60 @20248 has 43 MA's), (95, 20368), (96, 20374), (111, 20422), (134, 20506), (174, 20632),

Gene: Pipsqueak_25 Start: 18683, Stop: 19105, Start Num: 50

Candidate Starts for Pipsqueak_25:

(32, 18617), (Start: 50 @18683 has 241 MA's), (93, 18806), (95, 18812), (96, 18818), (117, 18881), (131, 18923), (140, 18974), (154, 19001), (165, 19049), (175, 19073), (179, 19091), (180, 19097),

Gene: Placalicious_24 Start: 18376, Stop: 18798, Start Num: 50

Candidate Starts for Placalicious_24:

(32, 18310), (Start: 50 @18376 has 241 MA's), (93, 18499), (95, 18505), (96, 18511), (117, 18574), (131, 18616), (140, 18667), (154, 18694), (165, 18742), (175, 18766), (179, 18784), (180, 18790),

Gene: Plmatters_25 Start: 18680, Stop: 19102, Start Num: 50

Candidate Starts for Plmatters_25:

(32, 18614), (Start: 50 @18680 has 241 MA's), (93, 18803), (95, 18809), (96, 18815), (117, 18878), (131, 18920), (154, 18998), (165, 19046), (175, 19070), (179, 19088), (180, 19094),

Gene: Podrick_25 Start: 18672, Stop: 19094, Start Num: 50

Candidate Starts for Podrick_25:

(32, 18606), (Start: 50 @18672 has 241 MA's), (93, 18795), (95, 18801), (96, 18807), (117, 18870), (131, 18912), (154, 18990), (165, 19038), (175, 19062), (179, 19080), (180, 19086),

Gene: Pops_25 Start: 18680, Stop: 19102, Start Num: 50

Candidate Starts for Pops_25:

(32, 18614), (Start: 50 @18680 has 241 MA's), (93, 18803), (95, 18809), (96, 18815), (117, 18878), (131, 18920), (154, 18998), (165, 19046), (175, 19070), (179, 19088), (180, 19094),

Gene: Portcullis_26 Start: 17599, Stop: 18042, Start Num: 61

Candidate Starts for Portcullis_26:

(Start: 61 @17599 has 90 MA's), (137, 17860), (184, 18016),

Gene: Poster_22 Start: 18304, Stop: 18717, Start Num: 57

Candidate Starts for Poster_22:

(Start: 57 @18304 has 25 MA's), (93, 18418), (95, 18424), (96, 18430), (105, 18466), (117, 18493), (121, 18505), (125, 18517), (131, 18535), (154, 18613), (174, 18682), (180, 18709),

Gene: Potter_24 Start: 18390, Stop: 18812, Start Num: 50

Candidate Starts for Potter_24:

(32, 18324), (Start: 50 @18390 has 241 MA's), (93, 18513), (95, 18519), (96, 18525), (117, 18588), (131, 18630), (140, 18681), (154, 18708), (165, 18756), (175, 18780), (179, 18798), (180, 18804),

Gene: Prickles_25 Start: 18669, Stop: 19091, Start Num: 50

Candidate Starts for Prickles_25:

(32, 18603), (Start: 50 @18669 has 241 MA's), (93, 18792), (95, 18798), (96, 18804), (117, 18867), (131, 18909), (154, 18987), (165, 19035), (175, 19059), (179, 19077), (180, 19083),

Gene: Prince_23 Start: 19496, Stop: 19909, Start Num: 57

Candidate Starts for Prince_23:

(Start: 57 @19496 has 25 MA's), (93, 19610), (95, 19616), (96, 19622), (105, 19658), (121, 19697), (125, 19709), (131, 19727), (154, 19805), (159, 19820), (174, 19874), (175, 19877), (180, 19901),

Gene: ProfessorX_25 Start: 18667, Stop: 19089, Start Num: 50

Candidate Starts for ProfessorX_25:

(32, 18601), (Start: 50 @18667 has 241 MA's), (93, 18790), (95, 18796), (96, 18802), (117, 18865), (131, 18907), (154, 18985), (165, 19033), (175, 19057), (179, 19075), (180, 19081),

Gene: Puhltonio_25 Start: 18683, Stop: 19105, Start Num: 50

Candidate Starts for Puhltonio_25:

(32, 18617), (Start: 50 @18683 has 241 MA's), (93, 18806), (95, 18812), (96, 18818), (117, 18881), (131, 18923), (154, 19001), (165, 19049), (175, 19073), (179, 19091), (180, 19097),

Gene: PullumCavea_26 Start: 17656, Stop: 18099, Start Num: 61

Candidate Starts for PullumCavea_26:

(Start: 61 @17656 has 90 MA's), (137, 17917), (184, 18073),

Gene: Quammi_31 Start: 21635, Stop: 22048, Start Num: 46

Candidate Starts for Quammi_31:

(31, 21578), (Start: 46 @21635 has 38 MA's), (67, 21671), (100, 21794), (146, 21911), (152, 21926),

Gene: QueenBeane_25 Start: 18675, Stop: 19097, Start Num: 50

Candidate Starts for QueenBeane_25:

(32, 18609), (Start: 50 @18675 has 241 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: QueenPie_22 Start: 19500, Stop: 19913, Start Num: 57

Candidate Starts for QueenPie_22:

(Start: 57 @19500 has 25 MA's), (95, 19620), (96, 19626), (105, 19662), (121, 19701), (125, 19713), (131, 19731), (154, 19809), (174, 19878), (180, 19905),

Gene: Quesadilla_26 Start: 20803, Stop: 21240, Start Num: 52

Candidate Starts for Quesadilla_26:

(Start: 52 @20803 has 20 MA's), (95, 20929), (96, 20935), (105, 20971), (117, 20998), (154, 21118), (163, 21148), (174, 21187),

Gene: Quisquilliae_25 Start: 18690, Stop: 19112, Start Num: 50

Candidate Starts for Quisquilliae_25:

(32, 18624), (Start: 50 @18690 has 241 MA's), (93, 18813), (95, 18819), (96, 18825), (117, 18888), (131, 18930), (154, 19008), (165, 19056), (175, 19080), (179, 19098), (180, 19104),

Gene: Qyrzula_25 Start: 20920, Stop: 21348, Start Num: 50

Candidate Starts for Qyrzula_25:

(39, 20893), (Start: 50 @20920 has 241 MA's), (63, 20935), (95, 21052), (96, 21058), (100, 21085), (111, 21106), (117, 21124), (154, 21244), (156, 21250), (174, 21313), (180, 21340),

Gene: Racecar_88 Start: 53421, Stop: 53804, Start Num: 59

Candidate Starts for Racecar_88:

(Start: 59 @53421 has 7 MA's), (72, 53460), (74, 53463), (97, 53562), (106, 53586), (126, 53637), (129, 53646), (140, 53700), (154, 53727), (158, 53739),

Gene: RagingRooster_26 Start: 19364, Stop: 19777, Start Num: 60

Candidate Starts for RagingRooster_26:

(Start: 60 @19364 has 43 MA's), (86, 19439), (95, 19484), (96, 19490), (134, 19622), (174, 19748),

Gene: RainyPolka_20 Start: 19600, Stop: 19980, Start Num: 78

Candidate Starts for RainyPolka_20:

(15, 19327), (24, 19408), (Start: 78 @19600 has 7 MA's), (85, 19615), (94, 19657), (106, 19702), (123, 19744), (142, 19822), (162, 19873), (164, 19888), (170, 19915), (173, 19918),

Gene: RawrgerThat_23 Start: 19333, Stop: 19746, Start Num: 57

Candidate Starts for RawrgerThat_23:

(Start: 57 @19333 has 25 MA's), (93, 19447), (95, 19453), (96, 19459), (105, 19495), (121, 19534), (125, 19546), (131, 19564), (154, 19642), (159, 19657), (174, 19711), (175, 19714), (180, 19738),

Gene: RedMaple_24 Start: 18686, Stop: 19108, Start Num: 50

Candidate Starts for RedMaple_24:

(32, 18620), (Start: 50 @18686 has 241 MA's), (93, 18809), (95, 18815), (96, 18821), (117, 18884), (131, 18926), (154, 19004), (165, 19052), (175, 19076), (179, 19094), (180, 19100),

Gene: Reprobate_25 Start: 19641, Stop: 20057, Start Num: 54

Candidate Starts for Reprobate_25:

(Start: 54 @19641 has 17 MA's), (77, 19701), (95, 19764), (96, 19770), (131, 19875), (136, 19905), (154, 19953), (181, 20052),

Gene: Rhinoforte_27 Start: 20951, Stop: 21379, Start Num: 50

Candidate Starts for Rhinoforte_27:

(39, 20924), (Start: 50 @20951 has 241 MA's), (63, 20966), (95, 21083), (96, 21089), (100, 21116), (111, 21137), (117, 21155), (154, 21275), (156, 21281), (174, 21344), (180, 21371),

Gene: Ribeye_30 Start: 23007, Stop: 23441, Start Num: 47

Candidate Starts for Ribeye_30:

(Start: 47 @23007 has 7 MA's), (82, 23061), (91, 23091), (111, 23166), (137, 23268), (148, 23289), (174, 23361), (184, 23412),

Gene: Rich_24 Start: 19142, Stop: 19558, Start Num: 54

Candidate Starts for Rich_24:

(Start: 54 @19142 has 17 MA's), (93, 19259), (96, 19271), (117, 19334), (174, 19523), (181, 19553),

Gene: Ricotta_24 Start: 18398, Stop: 18820, Start Num: 50

Candidate Starts for Ricotta_24:

(32, 18332), (Start: 50 @18398 has 241 MA's), (93, 18521), (95, 18527), (96, 18533), (117, 18596), (131, 18638), (154, 18716), (165, 18764), (175, 18788), (179, 18806), (180, 18812),

Gene: Riggan_25 Start: 18658, Stop: 19080, Start Num: 50

Candidate Starts for Riggan_25:

(32, 18592), (Start: 50 @18658 has 241 MA's), (93, 18781), (95, 18787), (96, 18793), (117, 18856), (131, 18898), (154, 18976), (165, 19024), (175, 19048), (179, 19066), (180, 19072),

Gene: Rimu_26 Start: 18479, Stop: 18829, Start Num: 81

Candidate Starts for Rimu_26:

(Start: 49 @18407 has 54 MA's), (81, 18479), (93, 18530), (95, 18536), (96, 18542), (117, 18605), (131, 18647), (154, 18725), (165, 18773), (175, 18797), (179, 18815), (180, 18821),

Gene: Rinkes_28 Start: 21670, Stop: 22086, Start Num: 54

Candidate Starts for Rinkes_28:

(Start: 54 @21670 has 17 MA's), (95, 21793), (96, 21799), (105, 21835), (131, 21904), (154, 21982), (159, 21997), (174, 22051), (175, 22054), (180, 22078),

Gene: Rita1961_26 Start: 19359, Stop: 19772, Start Num: 60

Candidate Starts for Rita1961_26:

(Start: 60 @19359 has 43 MA's), (86, 19434), (95, 19479), (96, 19485), (134, 19617), (174, 19743),

Gene: RiverRaider_30 Start: 21439, Stop: 21873, Start Num: 61

Candidate Starts for RiverRaider_30:

(Start: 61 @21439 has 90 MA's), (91, 21523), (137, 21700), (148, 21721), (168, 21778), (174, 21793), (184, 21844),

Gene: RoadKill_25 Start: 19107, Stop: 19538, Start Num: 61

Candidate Starts for RoadKill_25:

(18, 18933), (25, 18984), (Start: 61 @19107 has 90 MA's), (91, 19191), (111, 19266), (146, 19386), (153, 19401), (174, 19461), (182, 19500), (183, 19509), (184, 19512),

Gene: RobinRose_34 Start: 21130, Stop: 21525, Start Num: 46

Candidate Starts for RobinRose_34:

(Start: 46 @21130 has 38 MA's), (68, 21172), (73, 21181), (100, 21289), (160, 21430), (183, 21517),

Gene: Robyn_24 Start: 18249, Stop: 18671, Start Num: 50

Candidate Starts for Robyn_24:

(32, 18183), (Start: 50 @18249 has 241 MA's), (93, 18372), (95, 18378), (96, 18384), (117, 18447), (131, 18489), (154, 18567), (165, 18615), (175, 18639), (179, 18657), (180, 18663),

Gene: Rofo_30 Start: 23214, Stop: 23648, Start Num: 61

Candidate Starts for Rofo_30:

(39, 23184), (Start: 61 @23214 has 90 MA's), (91, 23298), (111, 23373), (120, 23397), (137, 23475), (174, 23568), (184, 23619),

Gene: RogerDodger_29 Start: 18449, Stop: 18892, Start Num: 61

Candidate Starts for RogerDodger_29:

(Start: 61 @18449 has 90 MA's), (137, 18710), (184, 18866),

Gene: Roliet_25 Start: 18674, Stop: 19096, Start Num: 50

Candidate Starts for Roliet_25:

(32, 18608), (Start: 50 @18674 has 241 MA's), (93, 18797), (95, 18803), (96, 18809), (117, 18872), (131, 18914), (154, 18992), (165, 19040), (175, 19064), (179, 19082), (180, 19088),

Gene: RomaT_26 Start: 20149, Stop: 20562, Start Num: 60

Candidate Starts for RomaT_26:

(Start: 60 @20149 has 43 MA's), (95, 20269), (96, 20275), (134, 20407), (174, 20533),

Gene: Romm_34 Start: 21130, Stop: 21525, Start Num: 46
Candidate Starts for Romm_34:
(Start: 46 @21130 has 38 MA's), (68, 21172), (73, 21181), (100, 21289), (160, 21430), (183, 21517),

Gene: Roscoe_26 Start: 18916, Stop: 19338, Start Num: 50
Candidate Starts for Roscoe_26:
(32, 18850), (Start: 50 @18916 has 241 MA's), (93, 19039), (95, 19045), (96, 19051), (117, 19114),
(131, 19156), (154, 19234), (165, 19282), (175, 19306), (179, 19324), (180, 19330),

Gene: Rosebush_27 Start: 20951, Stop: 21379, Start Num: 50
Candidate Starts for Rosebush_27:
(39, 20924), (Start: 50 @20951 has 241 MA's), (63, 20966), (95, 21083), (96, 21089), (100, 21116),
(111, 21137), (117, 21155), (154, 21275), (156, 21281), (174, 21344), (180, 21371),

Gene: Rowlf_29 Start: 21810, Stop: 22223, Start Num: 46
Candidate Starts for Rowlf_29:
(31, 21753), (Start: 46 @21810 has 38 MA's), (100, 21969), (146, 22086), (152, 22101),

Gene: Roy17_25 Start: 18378, Stop: 18800, Start Num: 50
Candidate Starts for Roy17_25:
(32, 18312), (Start: 50 @18378 has 241 MA's), (93, 18501), (95, 18507), (96, 18513), (117, 18576),
(131, 18618), (154, 18696), (165, 18744), (175, 18768), (179, 18786), (180, 18792),

Gene: RubyRalph_35 Start: 21703, Stop: 22119, Start Num: 46
Candidate Starts for RubyRalph_35:
(22, 21580), (35, 21670), (Start: 46 @21703 has 38 MA's), (92, 21814), (125, 21919), (155, 22000),
(157, 22003), (185, 22114),

Gene: Rudy_31 Start: 21668, Stop: 22081, Start Num: 46
Candidate Starts for Rudy_31:
(31, 21611), (37, 21641), (Start: 46 @21668 has 38 MA's), (67, 21704), (100, 21827), (146, 21944),
(152, 21959),

Gene: SDcharge11_25 Start: 18656, Stop: 19078, Start Num: 50
Candidate Starts for SDcharge11_25:
(32, 18590), (Start: 50 @18656 has 241 MA's), (93, 18779), (95, 18785), (96, 18791), (117, 18854),
(131, 18896), (154, 18974), (165, 19022), (175, 19046), (179, 19064), (180, 19070),

Gene: SJReid_93 Start: 54733, Stop: 55122, Start Num: 62
Candidate Starts for SJReid_93:
(62, 54733), (79, 54790), (106, 54895), (108, 54898), (129, 54955), (140, 55009), (154, 55036), (158,
55048), (169, 55096),

Gene: Sabella_27 Start: 20837, Stop: 21265, Start Num: 50
Candidate Starts for Sabella_27:
(39, 20810), (Start: 50 @20837 has 241 MA's), (63, 20852), (95, 20969), (96, 20975), (100, 21002),
(111, 21023), (117, 21041), (154, 21161), (156, 21167), (174, 21230), (180, 21257),

Gene: SadLad_37 Start: 22646, Stop: 23062, Start Num: 46
Candidate Starts for SadLad_37:
(5, 22172), (6, 22178), (8, 22205), (11, 22295), (22, 22523), (35, 22613), (Start: 46 @22646 has 38
MA's), (92, 22757), (155, 22943), (157, 22946), (185, 23057),

Gene: Saguaro_26 Start: 20711, Stop: 21127, Start Num: 54

Candidate Starts for Saguaro_26:

(Start: 54 @20711 has 17 MA's), (95, 20834), (154, 21023), (159, 21038), (163, 21053),

Gene: Salete_19 Start: 19235, Stop: 19615, Start Num: 78

Candidate Starts for Salete_19:

(9, 18785), (24, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (106, 19337), (135, 19427), (142, 19457), (162, 19508), (164, 19523), (170, 19550), (173, 19553),

Gene: SallyK_34 Start: 22743, Stop: 23147, Start Num: 46

Candidate Starts for SallyK_34:

(Start: 46 @22743 has 38 MA's), (67, 22779), (124, 22953), (131, 22974), (149, 23019), (152, 23028), (183, 23133), (185, 23142),

Gene: Salvador_26 Start: 17570, Stop: 18013, Start Num: 61

Candidate Starts for Salvador_26:

(Start: 61 @17570 has 90 MA's), (137, 17831), (184, 17987),

Gene: Samaymay_25 Start: 18675, Stop: 19097, Start Num: 50

Candidate Starts for Samaymay_25:

(32, 18609), (Start: 50 @18675 has 241 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: Sampson_30 Start: 22909, Stop: 23340, Start Num: 61

Candidate Starts for Sampson_30:

(33, 22849), (41, 22882), (Start: 61 @22909 has 90 MA's), (97, 23038), (111, 23068), (137, 23170), (141, 23176), (148, 23191), (168, 23248), (174, 23263), (183, 23311), (184, 23314),

Gene: Sanjuju_28 Start: 23395, Stop: 23829, Start Num: 61

Candidate Starts for Sanjuju_28:

(39, 23365), (Start: 61 @23395 has 90 MA's), (91, 23479), (111, 23554), (120, 23578), (137, 23656), (148, 23677), (174, 23749), (184, 23800),

Gene: Saronaya_29 Start: 21853, Stop: 22287, Start Num: 61

Candidate Starts for Saronaya_29:

(48, 21844), (Start: 61 @21853 has 90 MA's), (91, 21937), (111, 22012), (137, 22114), (148, 22135), (168, 22192), (174, 22207), (184, 22258),

Gene: SassyCat97_24 Start: 18384, Stop: 18806, Start Num: 50

Candidate Starts for SassyCat97_24:

(32, 18318), (Start: 50 @18384 has 241 MA's), (93, 18507), (95, 18513), (96, 18519), (117, 18582), (131, 18624), (154, 18702), (165, 18750), (175, 18774), (179, 18792), (180, 18798),

Gene: Savbucketdawg_26 Start: 17351, Stop: 17794, Start Num: 61

Candidate Starts for Savbucketdawg_26:

(Start: 61 @17351 has 90 MA's), (137, 17612), (184, 17768),

Gene: Schadenfreude_24 Start: 18232, Stop: 18654, Start Num: 50

Candidate Starts for Schadenfreude_24:

(32, 18166), (Start: 50 @18232 has 241 MA's), (93, 18355), (95, 18361), (96, 18367), (117, 18430), (131, 18472), (154, 18550), (165, 18598), (175, 18622), (179, 18640), (180, 18646),

Gene: SchottB_28 Start: 22865, Stop: 23299, Start Num: 61
Candidate Starts for SchottB_28:
(48, 22856), (Start: 61 @22865 has 90 MA's), (91, 22949), (111, 23024), (137, 23126), (148, 23147),
(168, 23204), (174, 23219), (184, 23270),

Gene: Schueller_25 Start: 18375, Stop: 18797, Start Num: 49
Candidate Starts for Schueller_25:
(Start: 49 @18375 has 54 MA's), (93, 18498), (95, 18504), (96, 18510), (117, 18573), (131, 18615),
(154, 18693), (165, 18741), (175, 18765), (179, 18783), (180, 18789),

Gene: Scioto_30 Start: 22964, Stop: 23395, Start Num: 61
Candidate Starts for Scioto_30:
(33, 22904), (41, 22937), (Start: 61 @22964 has 90 MA's), (97, 23093), (111, 23123), (137, 23225),
(141, 23231), (148, 23246), (168, 23303), (174, 23318), (183, 23366), (184, 23369),

Gene: Scoot17C_25 Start: 18677, Stop: 19099, Start Num: 50
Candidate Starts for Scoot17C_25:
(32, 18611), (Start: 50 @18677 has 241 MA's), (93, 18800), (95, 18806), (96, 18812), (117, 18875),
(131, 18917), (140, 18968), (154, 18995), (165, 19043), (175, 19067), (179, 19085), (180, 19091),

Gene: Scrick_25 Start: 18402, Stop: 18824, Start Num: 50
Candidate Starts for Scrick_25:
(32, 18336), (Start: 50 @18402 has 241 MA's), (93, 18525), (95, 18531), (96, 18537), (117, 18600),
(131, 18642), (154, 18720), (165, 18768), (175, 18792), (179, 18810), (180, 18816),

Gene: Sedona_30 Start: 24320, Stop: 24754, Start Num: 61
Candidate Starts for Sedona_30:
(Start: 61 @24320 has 90 MA's), (91, 24404), (111, 24479), (120, 24503), (137, 24581), (148, 24602),
(168, 24659), (174, 24674), (184, 24725),

Gene: Sejanus_22 Start: 17555, Stop: 17959, Start Num: 55
Candidate Starts for Sejanus_22:
(Start: 55 @17555 has 4 MA's), (86, 17633), (95, 17678), (96, 17684), (109, 17729), (117, 17750),
(131, 17792), (134, 17816), (140, 17843), (147, 17855), (171, 17933),

Gene: Selr12_25 Start: 18399, Stop: 18821, Start Num: 50
Candidate Starts for Selr12_25:
(32, 18333), (Start: 50 @18399 has 241 MA's), (93, 18522), (95, 18528), (96, 18534), (117, 18597),
(131, 18639), (154, 18717), (165, 18765), (175, 18789), (179, 18807), (180, 18813),

Gene: Serendipitous_24 Start: 19199, Stop: 19615, Start Num: 54
Candidate Starts for Serendipitous_24:
(Start: 54 @19199 has 17 MA's), (97, 19343), (105, 19364), (125, 19415), (140, 19484), (174, 19580),
(181, 19610),

Gene: Serendipity_25 Start: 18697, Stop: 19119, Start Num: 50
Candidate Starts for Serendipity_25:
(32, 18631), (Start: 50 @18697 has 241 MA's), (93, 18820), (95, 18826), (96, 18832), (117, 18895),
(131, 18937), (154, 19015), (165, 19063), (175, 19087), (179, 19105), (180, 19111),

Gene: Serpentine_0025 Start: 18677, Stop: 19099, Start Num: 50
Candidate Starts for Serpentine_0025:

(32, 18611), (Start: 50 @18677 has 241 MA's), (93, 18800), (95, 18806), (96, 18812), (117, 18875), (131, 18917), (154, 18995), (165, 19043), (175, 19067), (179, 19085), (180, 19091),

Gene: Shatter_22 Start: 17225, Stop: 17635, Start Num: 52

Candidate Starts for Shatter_22:

(Start: 52 @17225 has 20 MA's), (86, 17306), (93, 17345), (96, 17357), (108, 17399), (111, 17405), (117, 17423), (138, 17513),

Gene: Sheila_25 Start: 18669, Stop: 19091, Start Num: 50

Candidate Starts for Sheila_25:

(32, 18603), (Start: 50 @18669 has 241 MA's), (93, 18792), (95, 18798), (96, 18804), (117, 18867), (131, 18909), (154, 18987), (165, 19035), (175, 19059), (179, 19077), (180, 19083),

Gene: Shenyu_25 Start: 19342, Stop: 19758, Start Num: 54

Candidate Starts for Shenyu_25:

(Start: 54 @19342 has 17 MA's), (117, 19534), (131, 19576), (140, 19627), (181, 19753),

Gene: ShiVal_25 Start: 18669, Stop: 19091, Start Num: 50

Candidate Starts for ShiVal_25:

(32, 18603), (Start: 50 @18669 has 241 MA's), (93, 18792), (95, 18798), (96, 18804), (117, 18867), (131, 18909), (154, 18987), (165, 19035), (175, 19059), (179, 19077), (180, 19083),

Gene: Shinji_26 Start: 17540, Stop: 17983, Start Num: 61

Candidate Starts for Shinji_26:

(Start: 61 @17540 has 90 MA's), (137, 17801), (184, 17957),

Gene: Shivanishola_31 Start: 23294, Stop: 23728, Start Num: 61

Candidate Starts for Shivanishola_31:

(39, 23264), (Start: 61 @23294 has 90 MA's), (91, 23378), (111, 23453), (120, 23477), (137, 23555), (148, 23576), (174, 23648), (184, 23699),

Gene: Sigman_25 Start: 18668, Stop: 19090, Start Num: 50

Candidate Starts for Sigman_25:

(32, 18602), (Start: 50 @18668 has 241 MA's), (93, 18791), (95, 18797), (96, 18803), (117, 18866), (131, 18908), (154, 18986), (165, 19034), (175, 19058), (179, 19076), (180, 19082),

Gene: Sillytadpoles_34 Start: 21633, Stop: 22037, Start Num: 46

Candidate Starts for Sillytadpoles_34:

(31, 21576), (Start: 46 @21633 has 38 MA's), (67, 21669), (124, 21843), (131, 21864), (149, 21909), (152, 21918), (183, 22023), (185, 22032),

Gene: SilverBell_25 Start: 18692, Stop: 19114, Start Num: 50

Candidate Starts for SilverBell_25:

(32, 18626), (Start: 50 @18692 has 241 MA's), (93, 18815), (95, 18821), (96, 18827), (117, 18890), (131, 18932), (154, 19010), (165, 19058), (175, 19082), (179, 19100), (180, 19106),

Gene: Simielle_24 Start: 18367, Stop: 18789, Start Num: 50

Candidate Starts for Simielle_24:

(32, 18301), (Start: 50 @18367 has 241 MA's), (93, 18490), (95, 18496), (96, 18502), (117, 18565), (131, 18607), (154, 18685), (165, 18733), (175, 18757), (179, 18775), (180, 18781),

Gene: SirJeffery_25 Start: 19385, Stop: 19801, Start Num: 54

Candidate Starts for SirJeffery_25:

(Start: 54 @19385 has 17 MA's), (77, 19445), (96, 19514), (131, 19619), (136, 19649), (181, 19796),

Gene: Sisko_22 Start: 17508, Stop: 17921, Start Num: 52

Candidate Starts for Sisko_22:

(Start: 52 @17508 has 20 MA's), (79, 17577), (96, 17643), (111, 17691), (138, 17799), (174, 17898),

Gene: Sitar_30 Start: 24387, Stop: 24821, Start Num: 61

Candidate Starts for Sitar_30:

(39, 24357), (Start: 61 @24387 has 90 MA's), (91, 24471), (111, 24546), (137, 24648), (148, 24669), (174, 24741), (184, 24792),

Gene: Sixama_94 Start: 51509, Stop: 51916, Start Num: 59

Candidate Starts for Sixama_94:

(56, 51506), (Start: 59 @51509 has 7 MA's), (72, 51545), (91, 51602), (133, 51776), (134, 51785), (143, 51821), (151, 51833), (159, 51854), (165, 51887), (169, 51899), (174, 51908),

Gene: Skippy_25 Start: 18662, Stop: 19084, Start Num: 50

Candidate Starts for Skippy_25:

(32, 18596), (Start: 50 @18662 has 241 MA's), (93, 18785), (95, 18791), (96, 18797), (117, 18860), (131, 18902), (154, 18980), (165, 19028), (175, 19052), (179, 19070), (180, 19076),

Gene: Slatt_25 Start: 18691, Stop: 19113, Start Num: 50

Candidate Starts for Slatt_25:

(32, 18625), (Start: 50 @18691 has 241 MA's), (93, 18814), (95, 18820), (96, 18826), (117, 18889), (131, 18931), (154, 19009), (165, 19057), (175, 19081), (179, 19099), (180, 19105),

Gene: SlippinJimmy_26 Start: 20128, Stop: 20541, Start Num: 60

Candidate Starts for SlippinJimmy_26:

(Start: 60 @20128 has 43 MA's), (95, 20248), (96, 20254), (111, 20302), (134, 20386), (174, 20512),

Gene: SmokingBunny_26 Start: 17570, Stop: 18013, Start Num: 61

Candidate Starts for SmokingBunny_26:

(Start: 61 @17570 has 90 MA's), (137, 17831), (184, 17987),

Gene: Soile_25 Start: 18389, Stop: 18811, Start Num: 49

Candidate Starts for Soile_25:

(Start: 49 @18389 has 54 MA's), (95, 18518), (96, 18524), (117, 18587), (131, 18629), (154, 18707), (165, 18755), (175, 18779), (179, 18797), (180, 18803),

Gene: Solosis_24 Start: 18394, Stop: 18816, Start Num: 50

Candidate Starts for Solosis_24:

(32, 18328), (Start: 50 @18394 has 241 MA's), (93, 18517), (95, 18523), (96, 18529), (117, 18592), (131, 18634), (154, 18712), (165, 18760), (175, 18784), (179, 18802), (180, 18808),

Gene: Sophia_24 Start: 18387, Stop: 18809, Start Num: 50

Candidate Starts for Sophia_24:

(32, 18321), (Start: 50 @18387 has 241 MA's), (93, 18510), (95, 18516), (96, 18522), (117, 18585), (131, 18627), (154, 18705), (165, 18753), (175, 18777), (179, 18795), (180, 18801),

Gene: Soto_25 Start: 18671, Stop: 19093, Start Num: 50

Candidate Starts for Soto_25:

(32, 18605), (Start: 50 @18671 has 241 MA's), (93, 18794), (95, 18800), (96, 18806), (117, 18869), (131, 18911), (154, 18989), (165, 19037), (175, 19061), (179, 19079), (180, 19085),

Gene: Sour_26 Start: 21204, Stop: 21638, Start Num: 42

Candidate Starts for Sour_26:

(Start: 42 @21204 has 1 MA's), (Start: 52 @21225 has 20 MA's), (79, 21294), (108, 21402), (111, 21408), (131, 21468), (132, 21474), (138, 21516),

Gene: Spartan300_25 Start: 18672, Stop: 19094, Start Num: 50

Candidate Starts for Spartan300_25:

(32, 18606), (Start: 50 @18672 has 241 MA's), (93, 18795), (95, 18801), (96, 18807), (117, 18870), (131, 18912), (154, 18990), (165, 19038), (175, 19062), (179, 19080), (180, 19086),

Gene: Squash_35 Start: 22692, Stop: 23105, Start Num: 46

Candidate Starts for Squash_35:

(31, 22635), (Start: 46 @22692 has 38 MA's), (100, 22851), (146, 22968), (152, 22983),

Gene: Squid_25 Start: 18384, Stop: 18806, Start Num: 50

Candidate Starts for Squid_25:

(32, 18318), (Start: 50 @18384 has 241 MA's), (93, 18507), (95, 18513), (96, 18519), (117, 18582), (131, 18624), (154, 18702), (165, 18750), (175, 18774), (179, 18792), (180, 18798),

Gene: Squiggle_25 Start: 18381, Stop: 18803, Start Num: 50

Candidate Starts for Squiggle_25:

(32, 18315), (Start: 50 @18381 has 241 MA's), (93, 18504), (95, 18510), (96, 18516), (117, 18579), (131, 18621), (154, 18699), (165, 18747), (175, 18771), (179, 18789), (180, 18795),

Gene: Statler_35 Start: 22552, Stop: 22956, Start Num: 46

Candidate Starts for Statler_35:

(34, 22507), (Start: 46 @22552 has 38 MA's), (Start: 52 @22564 has 20 MA's), (67, 22588), (124, 22762), (131, 22783), (149, 22828), (152, 22837), (183, 22942), (185, 22951),

Gene: Stinger_21 Start: 17880, Stop: 18293, Start Num: 57

Candidate Starts for Stinger_21:

(Start: 57 @17880 has 25 MA's), (95, 18000), (96, 18006), (105, 18042), (117, 18069), (121, 18081), (125, 18093), (131, 18111), (154, 18189), (174, 18258), (175, 18261), (180, 18285),

Gene: StinkyVeggy_27 Start: 19514, Stop: 19930, Start Num: 54

Candidate Starts for StinkyVeggy_27:

(Start: 54 @19514 has 17 MA's), (117, 19706), (140, 19799), (181, 19925),

Gene: StorminNorm_29 Start: 21732, Stop: 22166, Start Num: 61

Candidate Starts for StorminNorm_29:

(48, 21723), (Start: 61 @21732 has 90 MA's), (91, 21816), (111, 21891), (137, 21993), (148, 22014), (168, 22071), (174, 22086), (184, 22137),

Gene: StrawberryJamm_35 Start: 21872, Stop: 22285, Start Num: 46

Candidate Starts for StrawberryJamm_35:

(31, 21815), (Start: 46 @21872 has 38 MA's), (100, 22031), (146, 22148), (152, 22163),

Gene: Struggle_24 Start: 18228, Stop: 18650, Start Num: 49

Candidate Starts for Struggle_24:

(Start: 49 @18228 has 54 MA's), (93, 18351), (95, 18357), (96, 18363), (117, 18426), (131, 18468), (154, 18546), (165, 18594), (175, 18618), (179, 18636), (180, 18642),

Gene: Stultus_28 Start: 22302, Stop: 22736, Start Num: 61

Candidate Starts for Stultus_28:

(39, 22272), (Start: 61 @22302 has 90 MA's), (91, 22386), (111, 22461), (120, 22485), (137, 22563), (148, 22584), (174, 22656), (184, 22707),

Gene: Suffolk_25 Start: 18674, Stop: 19096, Start Num: 50

Candidate Starts for Suffolk_25:

(32, 18608), (Start: 50 @18674 has 241 MA's), (93, 18797), (95, 18803), (96, 18809), (117, 18872), (131, 18914), (154, 18992), (165, 19040), (175, 19064), (179, 19082), (180, 19088),

Gene: Suigeneris_25 Start: 19394, Stop: 19810, Start Num: 54

Candidate Starts for Suigeneris_25:

(Start: 54 @19394 has 17 MA's), (77, 19454), (96, 19523), (131, 19628), (136, 19658), (181, 19805),

Gene: Sunfish_41 Start: 23003, Stop: 23479, Start Num: 46

Candidate Starts for Sunfish_41:

(Start: 46 @23003 has 38 MA's), (84, 23084), (131, 23234), (137, 23288), (146, 23306), (156, 23333),

Gene: Surely_25 Start: 18686, Stop: 19108, Start Num: 50

Candidate Starts for Surely_25:

(32, 18620), (Start: 50 @18686 has 241 MA's), (93, 18809), (95, 18815), (96, 18821), (117, 18884), (131, 18926), (154, 19004), (165, 19052), (175, 19076), (179, 19094), (180, 19100),

Gene: Swiphy_26 Start: 18675, Stop: 19097, Start Num: 49

Candidate Starts for Swiphy_26:

(Start: 49 @18675 has 54 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: Swish_25 Start: 18669, Stop: 19091, Start Num: 50

Candidate Starts for Swish_25:

(32, 18603), (Start: 50 @18669 has 241 MA's), (93, 18792), (95, 18798), (96, 18804), (117, 18867), (131, 18909), (154, 18987), (165, 19035), (175, 19059), (179, 19077), (180, 19083),

Gene: SynergyX_26 Start: 19364, Stop: 19777, Start Num: 60

Candidate Starts for SynergyX_26:

(Start: 60 @19364 has 43 MA's), (86, 19439), (95, 19484), (96, 19490), (134, 19622), (174, 19748),

Gene: TA17A_27 Start: 20831, Stop: 21259, Start Num: 50

Candidate Starts for TA17A_27:

(39, 20804), (Start: 50 @20831 has 241 MA's), (63, 20846), (95, 20963), (96, 20969), (100, 20996), (111, 21017), (117, 21035), (154, 21155), (156, 21161), (174, 21224), (180, 21251),

Gene: TP1604_19 Start: 19235, Stop: 19615, Start Num: 78

Candidate Starts for TP1604_19:

(9, 18785), (24, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (106, 19337), (135, 19427), (142, 19457), (162, 19508), (164, 19523), (170, 19550), (173, 19553),

Gene: TPA2_31 Start: 19553, Stop: 19993, Start Num: 44

Candidate Starts for TPA2_31:

(44, 19553), (95, 19697), (96, 19703), (117, 19769), (154, 19892), (174, 19961), (178, 19979),

Gene: Talia1610_87 Start: 52786, Stop: 53169, Start Num: 59

Candidate Starts for Talia1610_87:

(Start: 59 @52786 has 7 MA's), (72, 52825), (97, 52927), (106, 52951), (116, 52972), (126, 53002), (129, 53011), (140, 53065), (154, 53092), (158, 53104),

Gene: TallGrassMM_25 Start: 18401, Stop: 18823, Start Num: 50

Candidate Starts for TallGrassMM_25:

(32, 18335), (Start: 50 @18401 has 241 MA's), (93, 18524), (95, 18530), (96, 18536), (117, 18599), (131, 18641), (140, 18692), (154, 18719), (165, 18767), (175, 18791), (179, 18809), (180, 18815),

Gene: Tangent_30 Start: 22736, Stop: 23170, Start Num: 61

Candidate Starts for Tangent_30:

(39, 22706), (Start: 61 @22736 has 90 MA's), (91, 22820), (111, 22895), (120, 22919), (137, 22997), (174, 23090), (184, 23141),

Gene: Tangerine_29 Start: 21738, Stop: 22172, Start Num: 61

Candidate Starts for Tangerine_29:

(48, 21729), (Start: 61 @21738 has 90 MA's), (91, 21822), (111, 21897), (137, 21999), (148, 22020), (168, 22077), (174, 22092), (184, 22143),

Gene: Taptic_19 Start: 18137, Stop: 18547, Start Num: 58

Candidate Starts for Taptic_19:

(Start: 58 @18137 has 9 MA's), (86, 18212), (95, 18257), (96, 18263), (108, 18305), (117, 18329), (124, 18350), (152, 18452), (165, 18497),

Gene: Tardus_31 Start: 22245, Stop: 22676, Start Num: 61

Candidate Starts for Tardus_31:

(41, 22218), (Start: 61 @22245 has 90 MA's), (91, 22329), (97, 22374), (111, 22404), (137, 22506), (141, 22512), (148, 22527), (168, 22584), (174, 22599), (183, 22647), (184, 22650),

Gene: Teehee_34 Start: 22869, Stop: 23273, Start Num: 46

Candidate Starts for Teehee_34:

(31, 22812), (Start: 46 @22869 has 38 MA's), (67, 22905), (124, 23079), (131, 23100), (149, 23145), (152, 23154), (183, 23259), (185, 23268),

Gene: Telesworld_24 Start: 18380, Stop: 18802, Start Num: 50

Candidate Starts for Telesworld_24:

(32, 18314), (Start: 50 @18380 has 241 MA's), (93, 18503), (95, 18509), (96, 18515), (117, 18578), (131, 18620), (154, 18698), (165, 18746), (175, 18770), (179, 18788), (180, 18794),

Gene: Tempo_32 Start: 21006, Stop: 21401, Start Num: 46

Candidate Starts for Tempo_32:

(Start: 46 @21006 has 38 MA's), (68, 21048), (73, 21057), (100, 21165), (150, 21288), (160, 21306), (183, 21393),

Gene: Thing3_29 Start: 23229, Stop: 23663, Start Num: 61

Candidate Starts for Thing3_29:

(39, 23199), (Start: 61 @23229 has 90 MA's), (91, 23313), (111, 23388), (120, 23412), (137, 23490), (148, 23511), (174, 23583), (184, 23634),

Gene: Thonko_24 Start: 17161, Stop: 17574, Start Num: 57

Candidate Starts for Thonko_24:

(10, 16762), (12, 16798), (23, 17026), (Start: 57 @17161 has 25 MA's), (95, 17281), (96, 17287), (99, 17311), (100, 17314), (131, 17392), (159, 17485),

Gene: Thora_25 Start: 18685, Stop: 19107, Start Num: 50

Candidate Starts for Thora_25:

(32, 18619), (Start: 50 @18685 has 241 MA's), (93, 18808), (95, 18814), (96, 18820), (117, 18883), (131, 18925), (154, 19003), (165, 19051), (175, 19075), (179, 19093), (180, 19099),

Gene: ThreeOh3D2_25 Start: 18684, Stop: 19106, Start Num: 50

Candidate Starts for ThreeOh3D2_25:

(32, 18618), (Start: 50 @18684 has 241 MA's), (93, 18807), (95, 18813), (96, 18819), (117, 18882), (131, 18924), (154, 19002), (165, 19050), (175, 19074), (179, 19092), (180, 19098),

Gene: Thunderbird_24 Start: 18384, Stop: 18806, Start Num: 50

Candidate Starts for Thunderbird_24:

(32, 18318), (Start: 50 @18384 has 241 MA's), (93, 18507), (95, 18513), (96, 18519), (117, 18582), (131, 18624), (154, 18702), (165, 18750), (175, 18774), (179, 18792), (180, 18798),

Gene: Tiamoceli_28 Start: 20458, Stop: 20889, Start Num: 61

Candidate Starts for Tiamoceli_28:

(20, 20290), (Start: 61 @20458 has 90 MA's), (91, 20542), (111, 20617), (146, 20737), (153, 20752), (174, 20812), (176, 20821), (183, 20860), (184, 20863),

Gene: TillyBobJoe_26 Start: 17354, Stop: 17797, Start Num: 61

Candidate Starts for TillyBobJoe_26:

(Start: 61 @17354 has 90 MA's), (137, 17615), (184, 17771),

Gene: Timmi_24 Start: 18395, Stop: 18817, Start Num: 50

Candidate Starts for Timmi_24:

(32, 18329), (Start: 50 @18395 has 241 MA's), (93, 18518), (95, 18524), (96, 18530), (117, 18593), (131, 18635), (154, 18713), (165, 18761), (175, 18785), (179, 18803), (180, 18809),

Gene: Tinciduntolum_28 Start: 20953, Stop: 21381, Start Num: 50

Candidate Starts for Tinciduntolum_28:

(39, 20926), (Start: 50 @20953 has 241 MA's), (63, 20968), (95, 21085), (96, 21091), (100, 21118), (111, 21139), (117, 21157), (154, 21277), (156, 21283), (174, 21346), (180, 21373),

Gene: Tissue_33 Start: 22386, Stop: 22790, Start Num: 46

Candidate Starts for Tissue_33:

(Start: 46 @22386 has 38 MA's), (Start: 52 @22398 has 20 MA's), (124, 22596), (131, 22617), (149, 22662), (152, 22671), (183, 22776), (185, 22785),

Gene: Togo_26 Start: 17570, Stop: 18013, Start Num: 61

Candidate Starts for Togo_26:

(Start: 61 @17570 has 90 MA's), (137, 17831), (184, 17987),

Gene: TomBombadil_25 Start: 18680, Stop: 19102, Start Num: 50

Candidate Starts for TomBombadil_25:

(32, 18614), (Start: 50 @18680 has 241 MA's), (93, 18803), (95, 18809), (96, 18815), (117, 18878), (131, 18920), (154, 18998), (165, 19046), (175, 19070), (179, 19088), (180, 19094),

Gene: Tomlarah_25 Start: 18670, Stop: 19092, Start Num: 50

Candidate Starts for Tomlarah_25:

(32, 18604), (Start: 50 @18670 has 241 MA's), (93, 18793), (95, 18799), (96, 18805), (117, 18868), (131, 18910), (154, 18988), (165, 19036), (175, 19060), (179, 19078), (180, 19084),

Gene: Toni_24 Start: 18379, Stop: 18801, Start Num: 50

Candidate Starts for Toni_24:

(32, 18313), (Start: 50 @18379 has 241 MA's), (93, 18502), (95, 18508), (96, 18514), (117, 18577), (131, 18619), (154, 18697), (165, 18745), (175, 18769), (179, 18787), (180, 18793),

Gene: Tooj_25 Start: 18681, Stop: 19103, Start Num: 50

Candidate Starts for Tooj_25:

(32, 18615), (Start: 50 @18681 has 241 MA's), (93, 18804), (95, 18810), (96, 18816), (117, 18879), (131, 18921), (154, 18999), (165, 19047), (175, 19071), (179, 19089), (180, 19095),

Gene: Tres_27 Start: 20834, Stop: 21262, Start Num: 50

Candidate Starts for Tres_27:

(39, 20807), (Start: 50 @20834 has 241 MA's), (63, 20849), (95, 20966), (96, 20972), (100, 20999), (111, 21020), (117, 21038), (154, 21158), (156, 21164), (174, 21227), (180, 21254),

Gene: True_24 Start: 18383, Stop: 18805, Start Num: 50

Candidate Starts for True_24:

(32, 18317), (Start: 50 @18383 has 241 MA's), (93, 18506), (95, 18512), (96, 18518), (117, 18581), (131, 18623), (154, 18701), (165, 18749), (175, 18773), (179, 18791), (180, 18797),

Gene: Trypo_25 Start: 18672, Stop: 19094, Start Num: 49

Candidate Starts for Trypo_25:

(Start: 49 @18672 has 54 MA's), (93, 18795), (95, 18801), (96, 18807), (117, 18870), (131, 18912), (154, 18990), (165, 19038), (175, 19062), (179, 19080), (180, 19086),

Gene: TurkishDelight_25 Start: 21435, Stop: 21812, Start Num: 80

Candidate Starts for TurkishDelight_25:

(24, 21273), (38, 21360), (64, 21411), (Start: 80 @21435 has 4 MA's), (83, 21441), (85, 21447), (87, 21453), (106, 21534), (121, 21570), (125, 21582), (127, 21594), (137, 21648), (166, 21735), (170, 21747), (180, 21783),

Gene: Twister6_28 Start: 17997, Stop: 18440, Start Num: 61

Candidate Starts for Twister6_28:

(Start: 61 @17997 has 90 MA's), (137, 18258), (184, 18414),

Gene: Twonlo_25 Start: 19076, Stop: 19507, Start Num: 61

Candidate Starts for Twonlo_25:

(Start: 61 @19076 has 90 MA's), (91, 19160), (111, 19235), (146, 19355), (153, 19370), (174, 19430), (176, 19439), (183, 19478), (184, 19481),

Gene: Tycho_29 Start: 21827, Stop: 22261, Start Num: 61

Candidate Starts for Tycho_29:

(48, 21818), (Start: 61 @21827 has 90 MA's), (91, 21911), (111, 21986), (137, 22088), (148, 22109), (168, 22166), (174, 22181), (184, 22232),

Gene: Tydolla_26 Start: 20101, Stop: 20514, Start Num: 60

Candidate Starts for Tydolla_26:

(Start: 60 @20101 has 43 MA's), (95, 20221), (96, 20227), (111, 20275), (134, 20359), (174, 20485),

Gene: TyrionL_24 Start: 18236, Stop: 18658, Start Num: 49

Candidate Starts for TyrionL_24:

(Start: 49 @18236 has 54 MA's), (93, 18359), (95, 18365), (96, 18371), (117, 18434), (131, 18476), (154, 18554), (165, 18602), (175, 18626), (179, 18644), (180, 18650),

Gene: UAch1_25 Start: 18692, Stop: 19114, Start Num: 50

Candidate Starts for UAch1_25:

(32, 18626), (Start: 50 @18692 has 241 MA's), (93, 18815), (95, 18821), (96, 18827), (117, 18890), (131, 18932), (140, 18983), (154, 19010), (165, 19058), (175, 19082), (179, 19100), (180, 19106),

Gene: UncleHowie_25 Start: 18382, Stop: 18804, Start Num: 50

Candidate Starts for UncleHowie_25:

(32, 18316), (Start: 50 @18382 has 241 MA's), (93, 18505), (95, 18511), (96, 18517), (117, 18580), (131, 18622), (154, 18700), (165, 18748), (175, 18772), (179, 18790), (180, 18796),

Gene: Usavi_25 Start: 18683, Stop: 19105, Start Num: 50

Candidate Starts for Usavi_25:

(32, 18617), (Start: 50 @18683 has 241 MA's), (93, 18806), (95, 18812), (96, 18818), (117, 18881), (131, 18923), (140, 18974), (154, 19001), (165, 19049), (175, 19073), (179, 19091), (180, 19097),

Gene: Vaishali24_24 Start: 18341, Stop: 18763, Start Num: 49

Candidate Starts for Vaishali24_24:

(Start: 49 @18341 has 54 MA's), (93, 18464), (95, 18470), (96, 18476), (117, 18539), (131, 18581), (154, 18659), (165, 18707), (175, 18731), (179, 18749), (180, 18755),

Gene: Valary_29 Start: 18503, Stop: 18946, Start Num: 61

Candidate Starts for Valary_29:

(Start: 61 @18503 has 90 MA's), (137, 18764), (184, 18920),

Gene: Valjean_25 Start: 18675, Stop: 19097, Start Num: 50

Candidate Starts for Valjean_25:

(32, 18609), (Start: 50 @18675 has 241 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: VanDeWege_29 Start: 18378, Stop: 18821, Start Num: 61

Candidate Starts for VanDeWege_29:

(Start: 61 @18378 has 90 MA's), (137, 18639), (184, 18795),

Gene: Vaticameos_25 Start: 18373, Stop: 18795, Start Num: 50

Candidate Starts for Vaticameos_25:

(32, 18307), (Start: 50 @18373 has 241 MA's), (93, 18496), (95, 18502), (96, 18508), (117, 18571), (131, 18613), (154, 18691), (165, 18739), (175, 18763), (179, 18781), (180, 18787),

Gene: Veritas_24 Start: 18242, Stop: 18664, Start Num: 49

Candidate Starts for Veritas_24:

(Start: 49 @18242 has 54 MA's), (81, 18314), (93, 18365), (95, 18371), (96, 18377), (117, 18440), (131, 18482), (154, 18560), (165, 18608), (175, 18632), (179, 18650), (180, 18656),

Gene: Verity_29 Start: 23097, Stop: 23528, Start Num: 61

Candidate Starts for Verity_29:

(41, 23070), (Start: 61 @23097 has 90 MA's), (91, 23181), (96, 23211), (97, 23226), (111, 23256), (119, 23277), (137, 23358), (141, 23364), (153, 23391), (168, 23436), (174, 23451), (183, 23499), (184, 23502),

Gene: ViaConlectus_30 Start: 21588, Stop: 22019, Start Num: 61

Candidate Starts for ViaConlectus_30:

(33, 21528), (41, 21561), (Start: 61 @21588 has 90 MA's), (97, 21717), (111, 21747), (137, 21849), (141, 21855), (148, 21870), (168, 21927), (174, 21942), (183, 21990), (184, 21993),

Gene: Vic9_28 Start: 21282, Stop: 21710, Start Num: 50

Candidate Starts for Vic9_28:

(39, 21255), (Start: 50 @21282 has 241 MA's), (63, 21297), (96, 21420), (100, 21447), (111, 21468), (117, 21486), (131, 21528), (154, 21606), (156, 21612), (174, 21675), (180, 21702),

Gene: Viceroy_32 Start: 21635, Stop: 22048, Start Num: 46

Candidate Starts for Viceroy_32:

(31, 21578), (Start: 46 @21635 has 38 MA's), (67, 21671), (100, 21794), (146, 21911), (152, 21926),

Gene: Vincenzo_24 Start: 20089, Stop: 20502, Start Num: 57

Candidate Starts for Vincenzo_24:

(36, 20038), (Start: 57 @20089 has 25 MA's), (95, 20209), (96, 20215), (121, 20290), (131, 20320), (152, 20395), (159, 20413), (180, 20494),

Gene: VioletZ_23 Start: 19392, Stop: 19805, Start Num: 57

Candidate Starts for VioletZ_23:

(Start: 57 @19392 has 25 MA's), (93, 19506), (95, 19512), (96, 19518), (105, 19554), (121, 19593), (125, 19605), (131, 19623), (174, 19770), (180, 19797),

Gene: Virapocalypse_25 Start: 18666, Stop: 19088, Start Num: 50

Candidate Starts for Virapocalypse_25:

(32, 18600), (Start: 50 @18666 has 241 MA's), (93, 18789), (95, 18795), (96, 18801), (117, 18864), (131, 18906), (154, 18984), (165, 19032), (175, 19056), (179, 19074), (180, 19080),

Gene: Virgeve_24 Start: 18408, Stop: 18830, Start Num: 49

Candidate Starts for Virgeve_24:

(Start: 49 @18408 has 54 MA's), (81, 18480), (93, 18531), (95, 18537), (96, 18543), (117, 18606), (131, 18648), (154, 18726), (165, 18774), (175, 18798), (179, 18816), (180, 18822),

Gene: Vista_25 Start: 18680, Stop: 19102, Start Num: 50

Candidate Starts for Vista_25:

(32, 18614), (Start: 50 @18680 has 241 MA's), (93, 18803), (95, 18809), (96, 18815), (117, 18878), (131, 18920), (140, 18971), (154, 18998), (165, 19046), (175, 19070), (179, 19088), (180, 19094),

Gene: Vivaldi_25 Start: 18710, Stop: 19132, Start Num: 50

Candidate Starts for Vivaldi_25:

(32, 18644), (Start: 50 @18710 has 241 MA's), (93, 18833), (95, 18839), (96, 18845), (117, 18908), (131, 18950), (154, 19028), (165, 19076), (175, 19100), (179, 19118), (180, 19124),

Gene: Vivi2_32 Start: 23909, Stop: 24343, Start Num: 61

Candidate Starts for Vivi2_32:

(39, 23879), (Start: 61 @23909 has 90 MA's), (91, 23993), (111, 24068), (120, 24092), (137, 24170), (148, 24191), (174, 24263), (184, 24314),

Gene: Vortex_25 Start: 18390, Stop: 18812, Start Num: 50

Candidate Starts for Vortex_25:

(32, 18324), (Start: 50 @18390 has 241 MA's), (93, 18513), (95, 18519), (96, 18525), (117, 18588), (131, 18630), (154, 18708), (165, 18756), (175, 18780), (179, 18798), (180, 18804),

Gene: Waleliano_23 Start: 19331, Stop: 19744, Start Num: 57

Candidate Starts for Waleliano_23:

(Start: 57 @19331 has 25 MA's), (93, 19445), (95, 19451), (96, 19457), (105, 19493), (121, 19532), (125, 19544), (131, 19562), (154, 19640), (174, 19709), (175, 19712), (180, 19736),

Gene: Wallhey_24 Start: 18240, Stop: 18662, Start Num: 49

Candidate Starts for Wallhey_24:

(Start: 49 @18240 has 54 MA's), (93, 18363), (95, 18369), (96, 18375), (117, 18438), (131, 18480), (154, 18558), (165, 18606), (175, 18630), (179, 18648), (180, 18654),

Gene: Waterdiva_25 Start: 18675, Stop: 19097, Start Num: 50

Candidate Starts for Waterdiva_25:

(32, 18609), (Start: 50 @18675 has 241 MA's), (93, 18798), (95, 18804), (96, 18810), (117, 18873), (131, 18915), (154, 18993), (165, 19041), (175, 19065), (179, 19083), (180, 19089),

Gene: Wayne3_34 Start: 22632, Stop: 23036, Start Num: 46

Candidate Starts for Wayne3_34:

(31, 22575), (Start: 46 @22632 has 38 MA's), (67, 22668), (124, 22842), (131, 22863), (149, 22908), (152, 22917), (183, 23022), (185, 23031),

Gene: Weher20_25 Start: 18668, Stop: 19090, Start Num: 49

Candidate Starts for Weher20_25:

(Start: 49 @18668 has 54 MA's), (93, 18791), (95, 18797), (96, 18803), (117, 18866), (131, 18908), (154, 18986), (165, 19034), (175, 19058), (179, 19076), (180, 19082),

Gene: West99_27 Start: 20954, Stop: 21382, Start Num: 50

Candidate Starts for West99_27:

(39, 20927), (Start: 50 @20954 has 241 MA's), (63, 20969), (95, 21086), (96, 21092), (100, 21119), (111, 21140), (117, 21158), (154, 21278), (156, 21284), (174, 21347), (180, 21374),

Gene: Wheelie_32 Start: 21950, Stop: 22354, Start Num: 46

Candidate Starts for Wheelie_32:

(31, 21893), (Start: 46 @21950 has 38 MA's), (67, 21986), (124, 22160), (131, 22181), (149, 22226), (152, 22235), (183, 22340), (185, 22349),

Gene: Wilca_32 Start: 20827, Stop: 21222, Start Num: 46

Candidate Starts for Wilca_32:

(Start: 46 @20827 has 38 MA's), (68, 20869), (73, 20878), (100, 20986), (160, 21127), (181, 21196), (183, 21214),

Gene: Windsor_24 Start: 18360, Stop: 18782, Start Num: 49

Candidate Starts for Windsor_24:

(Start: 49 @18360 has 54 MA's), (81, 18432), (93, 18483), (95, 18489), (96, 18495), (117, 18558), (131, 18600), (154, 18678), (165, 18726), (175, 18750), (179, 18768), (180, 18774),

Gene: Wizard_26 Start: 17704, Stop: 18147, Start Num: 61

Candidate Starts for Wizard_26:

(Start: 61 @17704 has 90 MA's), (137, 17965), (184, 18121),

Gene: Wooper_24 Start: 18613, Stop: 19023, Start Num: 52

Candidate Starts for Wooper_24:

(Start: 52 @18613 has 20 MA's), (101, 18775), (108, 18787), (154, 18931),

Gene: Xavier_24 Start: 18393, Stop: 18815, Start Num: 50

Candidate Starts for Xavier_24:

(32, 18327), (Start: 50 @18393 has 241 MA's), (93, 18516), (95, 18522), (96, 18528), (117, 18591), (131, 18633), (154, 18711), (165, 18759), (175, 18783), (179, 18801), (180, 18807),

Gene: Xincheng_22 Start: 18792, Stop: 19205, Start Num: 57

Candidate Starts for Xincheng_22:

(Start: 57 @18792 has 25 MA's), (93, 18906), (95, 18912), (96, 18918), (105, 18954), (121, 18993), (125, 19005), (131, 19023), (140, 19074), (154, 19101), (174, 19170), (175, 19173), (180, 19197),

Gene: Xkcd426_25 Start: 26648, Stop: 27025, Start Num: 80

Candidate Starts for Xkcd426_25:

(Start: 54 @26606 has 17 MA's), (Start: 80 @26648 has 4 MA's), (85, 26660), (106, 26747), (128, 26807), (142, 26867), (162, 26918), (170, 26960), (180, 26996),

Gene: YDN12_20 Start: 19174, Stop: 19551, Start Num: 80

Candidate Starts for YDN12_20:

(24, 19003), (Start: 80 @19174 has 4 MA's), (85, 19186), (90, 19207), (94, 19228), (106, 19273), (135, 19363), (142, 19393), (162, 19444), (164, 19459), (170, 19486), (173, 19489),

Gene: Yago84_22 Start: 17516, Stop: 17929, Start Num: 52

Candidate Starts for Yago84_22:

(Start: 52 @17516 has 20 MA's), (79, 17585), (96, 17651), (111, 17699), (138, 17807), (174, 17906),

Gene: Yahalom_26 Start: 19376, Stop: 19789, Start Num: 60

Candidate Starts for Yahalom_26:

(Start: 60 @19376 has 43 MA's), (95, 19496), (96, 19502), (111, 19550), (134, 19634), (174, 19760),

Gene: Yinz_26 Start: 19402, Stop: 19815, Start Num: 60

Candidate Starts for Yinz_26:

(Start: 60 @19402 has 43 MA's), (86, 19477), (95, 19522), (96, 19528), (134, 19660), (174, 19786),

Gene: YorkOnyx_30 Start: 22083, Stop: 22517, Start Num: 47

Candidate Starts for YorkOnyx_30:

(Start: 47 @22083 has 7 MA's), (82, 22137), (91, 22167), (117, 22257), (119, 22263), (137, 22344), (148, 22365), (174, 22437), (184, 22488),

Gene: Yoshand_25 Start: 18682, Stop: 19104, Start Num: 50

Candidate Starts for Yoshand_25:

(32, 18616), (Start: 50 @18682 has 241 MA's), (93, 18805), (95, 18811), (96, 18817), (117, 18880), (131, 18922), (154, 19000), (165, 19048), (175, 19072), (179, 19090), (180, 19096),

Gene: YouGoGlencoco_25 Start: 18671, Stop: 19093, Start Num: 50

Candidate Starts for YouGoGlencoco_25:

(32, 18605), (Start: 50 @18671 has 241 MA's), (93, 18794), (95, 18800), (96, 18806), (117, 18869), (131, 18911), (154, 18989), (165, 19037), (175, 19061), (179, 19079), (180, 19085),

Gene: YungMoney_28 Start: 19070, Stop: 19513, Start Num: 61

Candidate Starts for YungMoney_28:

(Start: 61 @19070 has 90 MA's), (184, 19487),

Gene: Zagie_33 Start: 22073, Stop: 22486, Start Num: 46

Candidate Starts for Zagie_33:

(31, 22016), (Start: 46 @22073 has 38 MA's), (100, 22232), (146, 22349), (152, 22364),

Gene: Zaider_26 Start: 18907, Stop: 19329, Start Num: 50

Candidate Starts for Zaider_26:

(32, 18841), (Start: 50 @18907 has 241 MA's), (93, 19030), (95, 19036), (96, 19042), (117, 19105), (131, 19147), (154, 19225), (165, 19273), (175, 19297), (179, 19315), (180, 19321),

Gene: Zelda_25 Start: 18676, Stop: 19098, Start Num: 50

Candidate Starts for Zelda_25:

(32, 18610), (Start: 50 @18676 has 241 MA's), (93, 18799), (95, 18805), (96, 18811), (117, 18874), (131, 18916), (154, 18994), (165, 19042), (175, 19066), (179, 19084), (180, 19090),

Gene: Zemanar_24 Start: 19331, Stop: 19744, Start Num: 57

Candidate Starts for Zemanar_24:

(Start: 57 @19331 has 25 MA's), (93, 19445), (95, 19451), (96, 19457), (105, 19493), (121, 19532), (125, 19544), (131, 19562), (154, 19640), (174, 19709), (175, 19712), (180, 19736),

Gene: Zenteno07_29 Start: 19112, Stop: 19528, Start Num: 54

Candidate Starts for Zenteno07_29:

(Start: 54 @19112 has 17 MA's), (95, 19235), (99, 19265), (100, 19268), (154, 19424), (159, 19439), (180, 19520),

Gene: Zhafia_36 Start: 22428, Stop: 22832, Start Num: 46

Candidate Starts for Zhafia_36:

(31, 22371), (Start: 46 @22428 has 38 MA's), (67, 22464), (124, 22638), (131, 22659), (149, 22704), (152, 22713), (183, 22818), (185, 22827),

Gene: Zipp_29 Start: 22994, Stop: 23425, Start Num: 61

Candidate Starts for Zipp_29:

(41, 22967), (Start: 61 @22994 has 90 MA's), (96, 23108), (97, 23123), (111, 23153), (119, 23174), (137, 23255), (141, 23261), (153, 23288), (168, 23333), (174, 23348), (183, 23396), (184, 23399),

Gene: Zitch_31 Start: 20868, Stop: 21299, Start Num: 61

Candidate Starts for Zitch_31:

(41, 20841), (Start: 61 @20868 has 90 MA's), (91, 20952), (97, 20997), (111, 21027), (119, 21048), (137, 21129), (141, 21135), (148, 21150), (168, 21207), (174, 21222), (183, 21270), (184, 21273),

Gene: Zonia_25 Start: 18690, Stop: 19112, Start Num: 49

Candidate Starts for Zonia_25:

(Start: 49 @18690 has 54 MA's), (93, 18813), (95, 18819), (96, 18825), (117, 18888), (131, 18930), (154, 19008), (165, 19056), (175, 19080), (179, 19098), (180, 19104),

Gene: Zooman_79 Start: 48365, Stop: 48775, Start Num: 45

Candidate Starts for Zooman_79:

(Start: 45 @48365 has 3 MA's), (Start: 59 @48386 has 7 MA's), (72, 48425), (82, 48452), (86, 48461), (89, 48479), (106, 48551), (152, 48692), (160, 48713),

Gene: phiAsp2_21 Start: 13673, Stop: 14086, Start Num: 57

Candidate Starts for phiAsp2_21:

(Start: 57 @13673 has 25 MA's), (76, 13724), (88, 13754), (96, 13796), (104, 13832), (114, 13856), (117, 13859), (121, 13871), (146, 13964), (159, 13994),