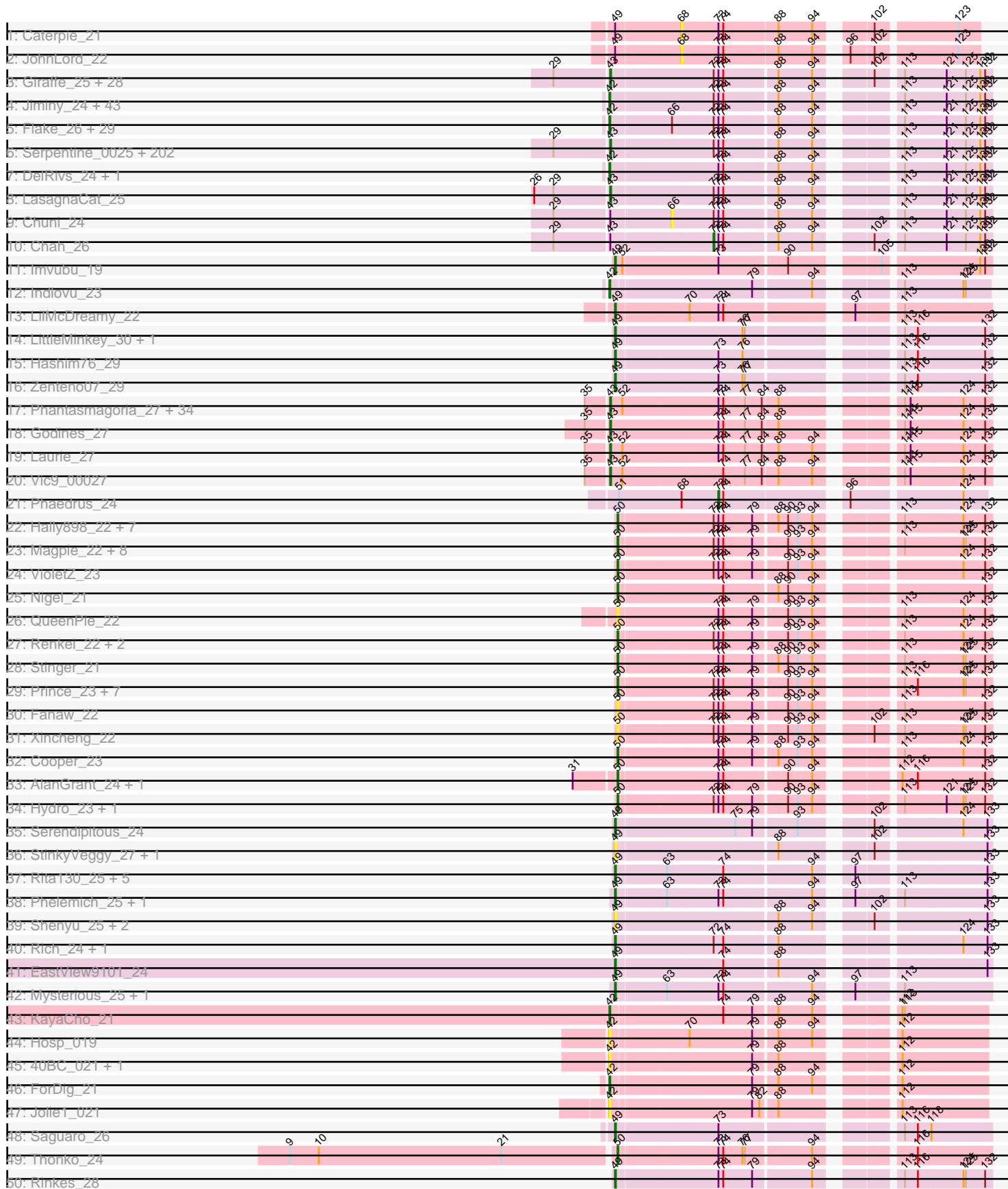
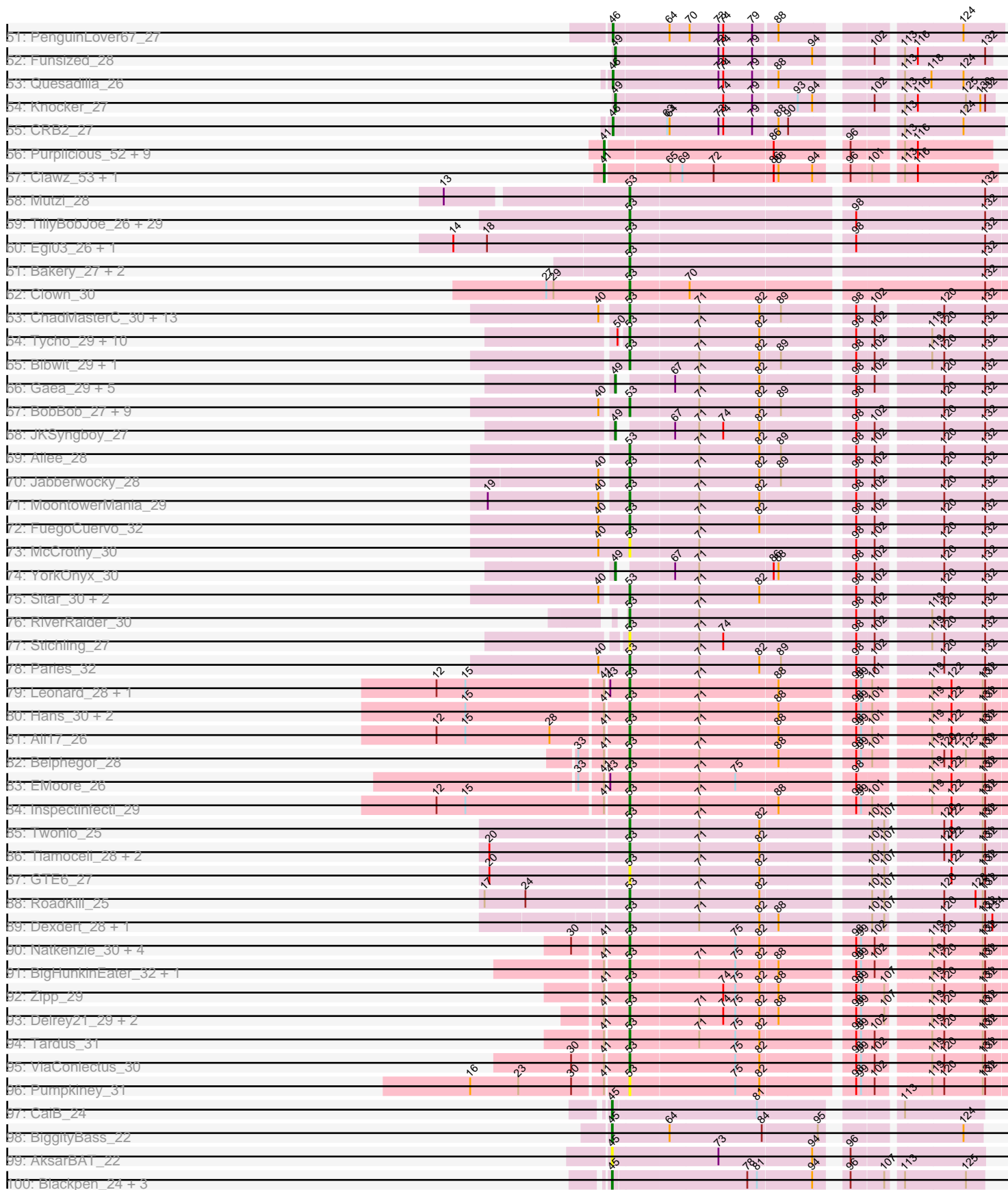


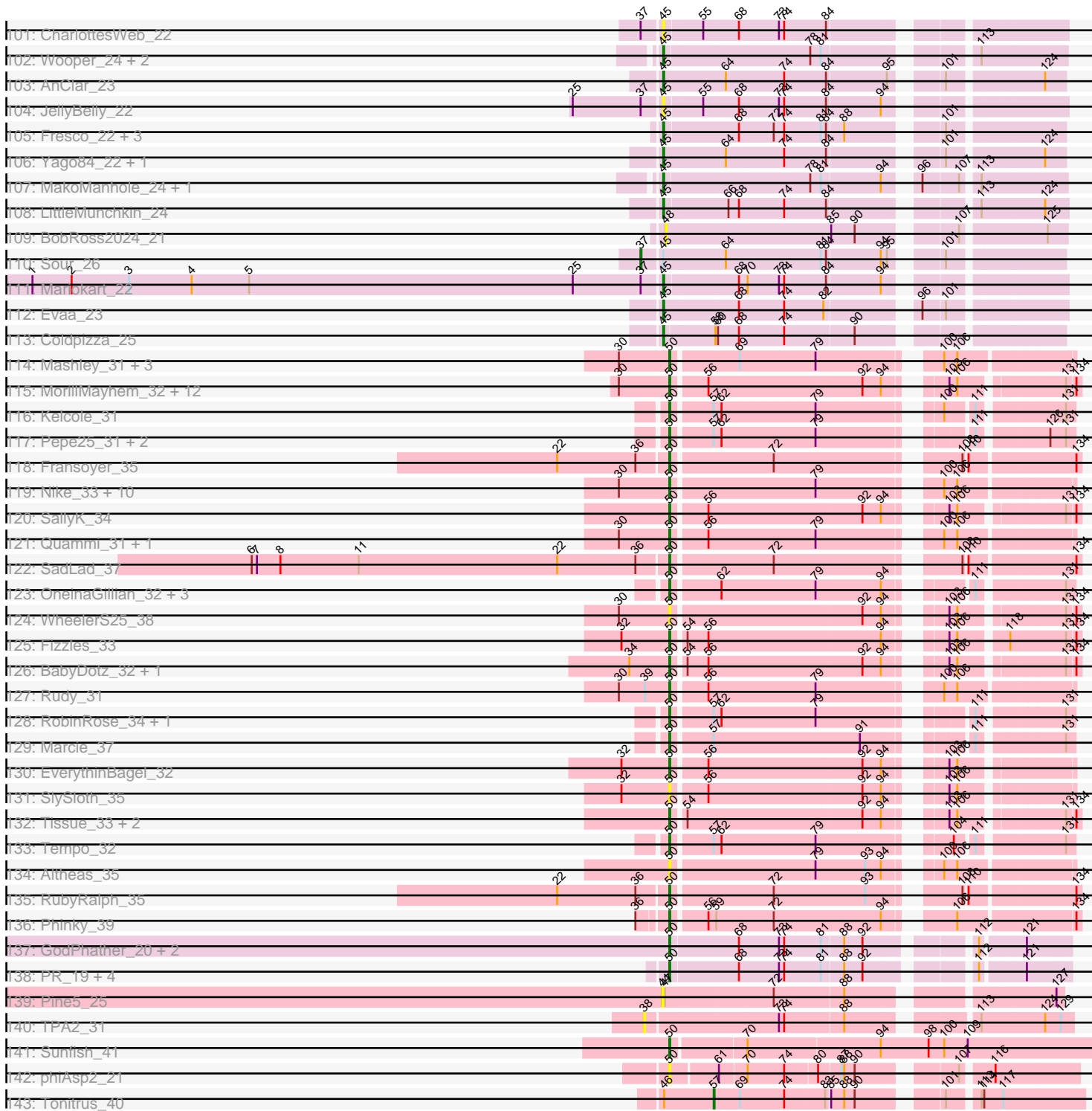
Pham 296087



Pham 296087



Pham 296087



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 296087 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296087 has 665 members, 99 are drafts.

Phages represented in each track:

- Track 1 : Caterpie_21
- Track 2 : JohnLord_22
- Track 3 : Giraffe_25, Hetaeria_25, Oosterbaan_25, Usavi_25, Cosmolli16_24, Pipsqueak_25, Mana_24, Scoot17C_25, LostAndPhound_24, HighStump_24, Orion_25, Megatron_25, Grand2040_24, Chorkpop_25, Kikipoo_25, DoesntMatter_25, Kahve_24, LeiMonet_25, TallGrassMM_25, IsaacEli_25, MRabcd_24, Lasso_25, UAch1_25, Potter_24, Morty_25, FugateOSU_24, Vista_25, Placalicious_24, PG1_25
- Track 4 : Jiminy_24, Hekos_22, DuchessDung_23, Aleia_25, Caspiboi_24, MrPhizzler_25, TyrionL_24, Oline_24, Maskar_24, Cornbread_24, Zonia_25, Hocus_24, Trypo_25, Plata_25, Swiphy_25, Etaye_25, Doddsville_25, Duggie_24, JakeO_24, Schueller_24, JDog_24, Ashraf_24, ImtiyazSitla_24, DaddyDaniels_25, Durga_25, Karn_24, GeneCoco_25, Dati_25, FleetyMac_24, Longacauda_24, Melc17_25, Wallhey_24, HogWash_24, Kwksand96_24, Brilliant_25, Derpp_24, Happabalu_25, Struggle_24, Weher20_25, Vaishali24_24, PhatLouie_25, Labeouficaum_24, CharlieGBrown_24, Pinkman_24
- Track 5 : Flake_26, SirBeauregard_24, Larson_26, Phleuron_24, Rimu_25, BatteryCK_24, Phergie_24, Magic8_25, OSmaximus_25, Veritas_24, Coletti_25, Kailash_25, Chute_24, MelsMeow_24, Windsor_24, Keitherie_25, Virgeve_24, Mag7_24, PhrankReynolds_24, Gwennie1_25, ElvisPhasley_25, PhenghisKhan_24, BlacksBerry_24, Iridessa_25, MichaelPhcott_24, Apizium_24, Hartsy_25, Nathan_25, Chaelin_24, Khan1_25
- Track 6 : Serpentine_0025, Haimas_25, Banjo_24, Mikota_25, Nacho_0025, Chunky_25, Adriana_25, OneBrain_25, Nicole21_25, FremontTroll_25, Kimbrough_25, Lumine_24, Maru_24, Burr_24, Selr12_25, Inchworm_25, OliverWalter_25, Valjean_25, KingVeVeVe_25, Fang_25, SilverBell_25, Triad_25, Olive_25, Iridoclysis_25, Gyarad_0025, Zelda_25, EmpTee_25, Mecca_24, Eugenia_25, Mulan_24, Prickles_25, FluffyNinja_25, Pherdinand_25, Thora_25, LuckyMarjie_24, Riverton_24, ShadowBud_25, AngelCake_25, Altwerkus_24, DirtJuice_25, Basato_26, Frankicide_25, Pops_25, Boehler_25, Thunderbird_24, KLucky39_25, Cher_24, CamL_25, Gwilliam_25, Skippy_25, SDcharge11_25, Antonia_24, Gareth_24, Buckeye_25, Megamind20_25, Newman_25, Kwadwo_24, Simielle_24, Manad_24, Squid_25, Daffy_25, RedRaider89_26, Cornobble_24, Freya_24, ABU_25, Numberten_25, Hamish_25, TooFast2Furius_26, Andre_25, ThreeOh3D2_25, BlackStallion_25, Yoshand_25, Mcshane_24, Schadenfreude_24, Haleema_24, Scrick_25, MitKao_25, Swish_25, Bishoperium_24, Mutante_24, BoogieWoogie_24, Serendipity_25, Sigman_25, Roy17_25, Lulwa_25,

GreenChile_25, CheetO_25, Emiris_25, Spartan300_25, DoIOn_26,
Bluephacebaby_24, Dingo_25, Xavier_24, LeeLot_25, KlimbOn_25, BlueHusk_25,
PhrodoBaggins_24, PinheadLarry_25, Beaglebox_24, Jillium_24, Sophia_24,
Lopsy_24, Surely_25, Slatt_25, Toni_24, Mosaic_24, ProfessorX_25, Solosis_24,
Jesabah_25, Virapocalypse_25, Crownjwl_25, Mesmerelda_24, Roliet_25,
Orwigg_24, Harvey_25, Plmatters_25, Telesworld_24, Charles1_25, SassyCat97_24,
Badfish_25, Hertubise_25, QueenBeane_25, Cobra_25, Childish_24, Fozzie_24,
Omniscient_25, MiniBoss_25, CampRoach_25, Ricotta_24, Held_25, JangoPhett_25,
Lego3393_25, Horchata_25, Lulumae_24, Matalotodo_25, Nyala_24, Colbert_25,
Phareon_25, AbsoluteMadLad_24, Inverness_25, YouGoGlencoco_25,
Quisquiliae_25, Waterdiva_25, UncleHowie_25, LemonSlice_25, Chipette_26,
DonSanchon_24, Legolas_24, Cannibal_25, Gophee_25, HSavage_25,
PallasAthena_25, Eremos_25, Morgushi_25, Dice_24, JacAttac_25, Carthage_23,
Riggan_25, Puhltonio_25, Dione_24, Sheila_25, Mesh1_25, Samaymay_25,
Timmi_24, True_24, Katniss_25, Daka_25, Squiggle_25, TomBombadil_25,
Lehmann_25, AltPhacts_25, Phipps_25, Kloppinator_25, Craff_25,
PhatCats2014_25, Zaider_26, Piglet_0024, Roscoe_26, Suffolk_25,
HenryJackson_24, Phunky_25, Phamished_25, Fringe_25, Vaticameos_25, Olak_24,
SallyH_25, Robyn_24, Orfeu_24, Podrick_25, FriarPreacher_25, Soto_25,
Aonishiki_25, ShiVal_25, Tooj_25, RedMaple_24, Murdoc_25, Pacifista_24,
Anderson_25, Aelin_24, Jiraiya_24, Tomlarah_25, Vortex_25, Vivaldi_25

- Track 7 : DelRivs_24, Soile_25
- Track 8 : LasagnaCat_25
- Track 9 : Chuni_24
- Track 10 : Chah_26
- Track 11 : Imvubu_19
- Track 12 : Indlovu_23
- Track 13 : LilMcDreamy_22
- Track 14 : LittleMinkey_30, BirdsNest_28
- Track 15 : Hashim76_29
- Track 16 : Zenteno07_29
- Track 17 : Phantasmagoria_27, Allegro_27, Sabella_27, LizLemon_27, Kheth_27,
Faze9_27, Brownie5_27, Glass_27, Coffee_27, West99_27, Kaleb_27, TA17A_28,
Calamitous_27, Kolhan_27, Opia_27, LilSmirk_27, Tinciduntolum_28, Tres_27,
MasterPo_27, Lars_27, Bananafish_27, Eaglehorse_27, Boyle_27, Arbiter_27,
Hedgerow_27, Holeinone_27, PrinceCharming_27, Rosebush_27, Blocker23_27,
Ares_27, Qyrzula_25, Lephleur_27, FrenchFry_27, ItsyBitsy1_27, Rhinoforte_27
- Track 18 : Godines_27
- Track 19 : Laurie_27
- Track 20 : Vic9_00027
- Track 21 : Phaedruss_24
- Track 22 : Hally898_22, Antihero_22, Ahwei_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, JoyceMaria_23, Zemanar_24, Heath_22
- Track 24 : VioletZ_23
- Track 25 : Nigel_21
- Track 26 : QueenPie_22
- Track 27 : Renkei_22, ChrisnMich_22, LittleDigger_22
- Track 28 : Stinger_21
- Track 29 : Prince_23, Mudslide_23, RawrgerThat_23, Frederick_23, Fortunato_23,
Apex_23, Austelle_24, BobbyK_23
- Track 30 : Fanaw_22

- Track 31 : Xincheng_22
- Track 32 : Cooper_23
- Track 33 : AlanGrant_24, Vincenzo_24
- Track 34 : Hydro_23, Lolalove_23
- Track 35 : Serendipitous_24
- Track 36 : StinkyVeggy_27, KarasumaRum_27
- Track 37 : Rita130_25, Acadian_25, Donny_25, Suigeneris_25, SirJeffery_25, Reccee_26
- Track 38 : Phelemich_25, Reprobate_25
- Track 39 : Shenyu_25, DigitDog_25, Nangang_25
- Track 40 : Rich_24, Bae_24
- Track 41 : EastView9101_24
- Track 42 : Mysterious_25, Nehemiah_24
- Track 43 : KayaCho_21
- Track 44 : Hosp_019
- Track 45 : 40BC_021, 39HC_021
- Track 46 : ForDig_21
- Track 47 : Jolie1_021
- Track 48 : Saguaro_26
- Track 49 : Thonko_24
- Track 50 : Rinkes_28
- Track 51 : PenguinLover67_27
- Track 52 : Funsized_28
- Track 53 : Quesadilla_26
- Track 54 : Knocker_27
- Track 55 : CRB2_27
- Track 56 : Purplicious_52, DonTron_53, Sting_52, KingstonB_54, ColdSoup_54, Amo99_54, Grumio_53, Stillion_53, Jollymon_53, Soos_49
- Track 57 : Clawz_53, Makar_54
- Track 58 : Mutzi_28
- Track 59 : TillyBobJoe_26, Halo3_27, ClamChowder_28, Gezellig_26, KimmyK_28, PinkCoffee_28, Salvador_26, Twister6_28, Arri_29, VanDeWege_29, Valary_29, Togo_26, Danyall_28, Jambalaya_26, JohnPork_26, Portcullis_26, RogerDodger_29, CherryCola_29, Evamon_26, Phlop_26, Savbucketdawg_26, Wizard_26, PullumCavea_26, SmokingBunny_26, Fugax_28, CoveyB_28, Nubi_26, Shinji_26, Fireball_27, Barb_28
- Track 60 : Egi03_26, Sendy_27
- Track 61 : Bakery_27, Sixsevenium_27, YungMoney_28
- Track 62 : Clown_30
- Track 63 : ChadMasterC_30, Shivanishola_31, Kewpiedoll_29, Sanjuju_28, Keitabear_30, Stultus_28, Kamashten_29, Charming_30, Affeca_28, Barsten_30, Angelicage_28, Vivi2_32, Thing3_29, Brawn1_26
- Track 64 : Tycho_29, Baumdotcom_29, Ashertheman_30, Tangerine_29, Gustavo_29, LilHam_27, SchottB_28, Saronaya_29, StorminNorm_29, Kroos_30, Kwobi_31
- Track 65 : Bibwit_29, Sedona_30
- Track 66 : Gaea_29, Ribeye_30, Derg_25, Bizzy_30, Flatwoods_30, Baddon_29
- Track 67 : BobBob_27, Nordenberg_24, Brandonk123_31, Fosterous_28, McKinley_32, Tangent_30, Rofo_30, Geodirt_27, Love_33, Galadriel_30
- Track 68 : JKSyngboy_27
- Track 69 : Ailee_28
- Track 70 : Jabberwocky_28
- Track 71 : MoontowerMania_29

- Track 72 : FuegoCuervo_32
- Track 73 : McCrothy_30
- Track 74 : YorkOnyx_30
- Track 75 : Sitar_30, Lennon_30, Fitzgerald_28
- Track 76 : RiverRaider_30
- Track 77 : Stichling_27
- Track 78 : Paries_32
- Track 79 : Leonard_28, Phinally_28
- Track 80 : Hans_30, Phauci_21, MelBins_29
- Track 81 : Ali17_26
- Track 82 : Belphegor_28
- Track 83 : EMOore_26
- Track 84 : Inspectinfecti_29
- Track 85 : Twonlo_25
- Track 86 : Tiamoceli_28, EdmundFerry_26, Chickadee_27
- Track 87 : GTE6_27
- Track 88 : RoadKill_25
- Track 89 : Dexeert_28, Kwekel_27
- Track 90 : Natkenzie_30, Sampson_30, Scioto_30, Abblin_30, APunk_31
- Track 91 : BigHunkinEater_32, Zitch_31
- Track 92 : Zipp_29
- Track 93 : Delrey21_29, DoctorFroggo_29, Verity_29
- Track 94 : Tardus_31
- Track 95 : ViaConlectus_30
- Track 96 : Pumpkiney_31
- Track 97 : CaiB_24
- Track 98 : BiggityBass_22
- Track 99 : AksarBAT_22
- Track 100 : Blackpen_24, CloverMinnie_24, MossRose_24, AnarQue_24
- Track 101 : CharlottesWeb_22
- Track 102 : Wooper_24, TraderJ_24, Yeshua_24
- Track 103 : AnClar_23
- Track 104 : JellyBelly_22
- Track 105 : Fresco_22, Axumite_22, Shatter_22, Ligma_22
- Track 106 : Yago84_22, Sisko_22
- Track 107 : MakoManhole_24, FelixTres_24
- Track 108 : LittleMunchkin_24
- Track 109 : BobRoss2024_21
- Track 110 : Sour_26
- Track 111 : Mariokart_22
- Track 112 : Evaa_23
- Track 113 : Coldpizza_25
- Track 114 : Mashley_31, Gazebo_32, Blab_31, AluminumJesus_31
- Track 115 : MorillMayhem_32, Sillytadpoles_33, Phabia_33, Jehoshaphat_35, Teehee_34, BaconCheese_36, Lonelysoil_32, Zhafia_35, Wheelie_32, DonaldDuck_32, Casend_34, Llemily_32, Wayne3_34
- Track 116 : Kelcole_31
- Track 117 : Pepe25_31, Wilca_32, BirdInFrench_32
- Track 118 : Fransoyer_35
- Track 119 : Nike_33, Zagie_33, Hyperion_32, Grassboy_34, Mila11_36, Squash_35, StrawberryJamm_35, Kyva_35, Namago_33, Rowlf_29, Mentos_38
- Track 120 : SallyK_34
- Track 121 : Quammi_31, Viceroy_32

- Track 122 : SadLad_37
- Track 123 : OneinaGillian_32, Fregley_33, CandC_31, KillerQueen_33
- Track 124 : WheelerS25_38
- Track 125 : Fizzles_33
- Track 126 : BabyDotz_32, Statler_34
- Track 127 : Rudy_31
- Track 128 : RobinRose_34, Romm_34
- Track 129 : Marcie_37
- Track 130 : EverythinBagel_32
- Track 131 : SlySloth_35
- Track 132 : Tissue_33, Judebell_35, FrankDeliGuy_30
- Track 133 : Tempo_32
- Track 134 : Altheas_35
- Track 135 : RubyRalph_35
- Track 136 : Phinky_39
- Track 137 : GodPhather_20, Argie_20, Jeon_19
- Track 138 : PR_19, Megabear_19, Cepens_19, D12_19, Taptic_19
- Track 139 : Pine5_25
- Track 140 : TPA2_31
- Track 141 : Sunfish_41
- Track 142 : phiAsp2_21
- Track 143 : Tonitrus_40

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

The start number called the most often in the published annotations is 43, it was called in 254 of the 566 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, AngelCake_25, Antonia_24, Aonishiki_25, Arbiter_27, Ares_27, Badfish_25, Bananafish_27, Banjo_24, Basato_26, Beaglebox_24, Bishoperium_24, BlackStallion_25, Blocker23_27, BlueHusk_25, Bluephacebaby_24, Boehler_25, BoogieWoogie_24, Boyle_27, Brownie5_27, Buckeye_25, Burr_24, Calamitous_27, CamL_25, CampRoach_25, Cannibal_25, Carthage_23, Charles1_25, CheetO_25, Cher_24, Childish_24, Chipette_26, Chorkpop_25, Chunky_25, Cobra_25, Coffee_27, Colbert_25, Cornobble_24, Cosmolli16_24, Craff_25, Crownjwl_25, Daffy_25, Daka_25, Dice_24, Dingo_25, Dione_24, DirtJuice_25, DoesntMatter_25, DolOn_26, DonSanchon_24, Eaglehorse_27, Emiris_25, EmpTee_25, Eremos_25, Eugenia_25, Fang_25, Faze9_27, FluffyNinja_25, Fozzie_24, Frankicide_25, FremontTroll_25, FrenchFry_27, Freya_24, FriarPreacher_25, Fringe_25, FugateOSU_24, Gareth_24, Giraffe_25, Glass_27, Godines_27, Gophee_25, Grand2040_24, GreenChile_25, Gwilliam_25, Gyarad_0025, HSavage_25, Haimas_25, Haleema_24, Hamish_25, Harvey_25, Hedgerow_27, Held_25, HenryJackson_24, Hertubise_25, Hetaeria_25, HighStump_24, Holeinone_27, Horchata_25, Inchworm_25, Inverness_25, Iridoclysis_25, IsaacEli_25, ItsyBitsy1_27, JacAttac_25, JangoPhett_25, Jesabah_25, Jillium_24, Jiraiya_24, KLucky39_25, Kahve_24, Kaleb_27, Katniss_25, Kheth_27, Kikipoo_25, Kimbrough_25, KingVeVeVe_25, KlimbOn_25, Kloppinator_25, Kolhan_27, Kwadwo_24, Lars_27, LasagnaCat_25, Lasso_25, Laurie_27, LeeLot_25,

Lego3393_25, Legolas_24, Lehmann_25, LeiMonet_25, LemonSlice_25, Lephleur_27, LilSmirk_27, LizLemon_27, Lopsy_24, LostAndPhound_24, LuckyMarjie_24, Lulumae_24, Lulwa_25, Lumine_24, MRabcd_24, Mana_24, Manad_24, Maru_24, MasterPo_27, Matalotodo_25, Mcshane_24, Mecca_24, Megamind20_25, Megatron_25, Mesh1_25, Mesmerelda_24, Mikota_25, MiniBoss_25, MitKao_25, Morgushi_25, Morty_25, Mosaic_24, Mulan_24, Murdoc_25, Mutante_24, Nacho_0025, Newman_25, Nicole21_25, Numberben_25, Nyala_24, Olak_24, Olive_25, OliverWalter_25, Omniscient_25, OneBrain_25, Oosterbaan_25, Opia_27, Orfeu_24, Orion_25, Orwigg_24, PG1_25, Pacifista_24, PallasAthena_25, Phamished_25, Phantasmagoria_27, Phareon_25, PhatCats2014_25, Pherdinand_25, Phipps_25, PhrodoBaggins_24, Phunky_25, Piglet_0024, PinheadLarry_25, Pipsqueak_25, Placalicious_24, Plmatters_25, Podrick_25, Pops_25, Potter_24, Prickles_25, PrinceCharming_27, ProfessorX_25, Puhltonio_25, QueenBeane_25, Quisquilliae_25, Qyrzula_25, RedMaple_24, RedRaider89_26, Rhinoforte_27, Ricotta_24, Riggan_25, Riverton_24, Robyn_24, Roliet_25, Roscoe_26, Rosebush_27, Roy17_25, SDcharge11_25, Sabella_27, SallyH_25, Samaymay_25, SassyCat97_24, Schadenfreude_24, Scoot17C_25, Scrick_25, Selr12_25, Serendipity_25, Serpentine_0025, ShadowBud_25, Sheila_25, ShiVal_25, Sigman_25, SilverBell_25, Simielle_24, Skippy_25, Slatt_25, Solosis_24, Sophia_24, Soto_25, Spartan300_25, Squid_25, Squiggle_25, Suffolk_25, Surely_25, Swish_25, TA17A_28, TallGrassMM_25, Telesworld_24, Thora_25, ThreeOh3D2_25, Thunderbird_24, Timmi_24, Tinciduntolum_28, TomBombadil_25, Tomlarah_25, Toni_24, TooFast2Furius_26, Tooj_25, Tres_27, Triad_25, True_24, UAch1_25, UncleHowie_25, Usavi_25, Valjean_25, Vaticameos_25, Vic9_00027, Virapocalypse_25, Vista_25, Vivaldi_25, Vortex_25, Waterdiva_25, West99_27, Xavier_24, Yoshand_25, YouGoGlencoco_25, Zaider_26, Zelda_25,

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

- Chah_26, Chuni_24, EMOore_26, Leonard_28, Phinally_28,

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

- 39HC_021, 40BC_021, APunk_31, Abblin_30, Acadian_25, Affeca_28, Ahwei_22, Ailee_28, AksarBAT_22, AlanGrant_24, Aleia_25, Ali17_26, Altheas_35, AluminumJesus_31, Amo99_54, AnClar_23, AnarQue_24, Angelicage_28, Antihero_22, Apex_23, Apizium_24, Argie_20, Arri_29, Ashertheman_30, Ashraf_24, Austelle_24, Axumite_22, BabyDotz_32, BaconCheese_36, Baddon_29, Bae_24, Bakery_27, Barb_28, Barsten_30, BatteryCK_24, Baumdotcom_29, Belphegor_28, Bibwit_29, BigHunkinEater_32, BiggityBass_22, BirdInFrench_32, BirdsNest_28, Bizzy_30, Blab_31, Blackpen_24, BlacksBerry_24, BobBob_27, BobRoss2024_21, BobbyK_23, Brandonk123_31, Brawn1_26, Brilliant_25, BrownCNA_24, CRB2_27, CaiB_24, CandC_31, Casend_34, Caspiboi_24, Caterpie_21, Cepens_19, ChadMasterC_30, Chaelin_24, CharlieGBrown_24, CharlottesWeb_22, Charming_30, CherryCola_29, Chickadee_27, ChrisnMich_22, Chute_24, ClamChowder_28, Clawz_53, CloverMinnie_24, Clown_30, ColdSoup_54, Coldpizza_25, Coletti_25, Cooper_23, Cornbread_24, CoveyB_28, D12_19, DaddyDaniels_25, Danyall_28, Dati_25, DelRivs_24, Delrey21_29, Derg_25, Derpp_24, Dexdert_28, DigitDog_25, DoctorFroggo_29, Doddsville_25, DonTron_53, DonaldDuck_32, Donny_25, DuchessDung_23, Duggie_24, Durga_25, EastView9101_24, EdmundFerry_26, Egi03_26, ElvisPhasley_25, Epah_22, Etaye_25, Evaa_23, Evamon_26, EverythinBagel_32, Fanaw_22, FelixTres_24, Fireball_27, Fitzgerald_28, Fizzles_33, Flake_26, Flatwoods_30, FleetyMac_24, ForDig_21, Fortunato_23, Fosterous_28, FrankDeliGuy_30, Fransoyer_35, Frederick_23, Fregley_33, Fresco_22, FuegoCuervo_32, Fugax_28, Funsized_28,

GTE6_27, Gaea_29, Galadriel_30, Gazebo_32, GeneCoco_25, Geodirt_27, Gezellig_26, GinPorsche_22, GodPhather_20, Grassboy_34, Grumio_53, Gustavo_29, Gwennie1_25, Hally898_22, Halo3_27, Hangman_23, Hans_30, Happabalu_25, Hartsy_25, Hashim76_29, Heath_22, Hekos_22, Hocus_24, HogWash_24, Hosp_019, Hydro_23, Hyperion_32, ImtiyazSitla_24, Imvubu_19, Indlovu_23, Inspectinfecti_29, Iridessa_25, JDog_24, JKSyngboy_27, Jabberwocky_28, JaguarMi_23, JakeO_24, Jambalaya_26, Jehoshaphat_35, JellyBelly_22, Jeon_19, Jiminy_24, JohnLord_22, JohnPork_26, Jolie1_021, Jollymon_53, JoyceMaria_23, Judebell_35, Kailash_25, Kamashten_29, KarasumaRum_27, Karn_24, KayaCho_21, Keitabear_30, Keitherie_25, Kelcole_31, Kewpiedoll_29, Khan1_25, KillerQueen_33, KimmyK_28, KingstonB_54, Knocker_27, Kroos_30, Kwekel_27, Kwksand96_24, Kwobi_31, Kyva_35, Labeouficaum_24, Lambano_22, Larson_26, Lennon_30, Ligma_22, LilHam_27, LilMcDreamy_22, LittleDigger_22, LittleMinkey_30, LittleMunchkin_24, Llemily_32, Lolalove_23, Lonelysoil_32, Longacauda_24, Love_33, Mag7_24, Magic8_25, Magpie_22, Makar_54, MakoManhole_24, Marcie_37, Mariokart_22, Mashley_31, Maskar_24, McCrothy_30, McKinley_32, Megabear_19, MelBins_29, Melc17_25, MelsMeow_24, Mentos_38, MichaelPhcott_24, Mila11_36, Mithril_23, MoontowerMania_29, MorillMayhem_32, MossRose_24, MrPhizzler_25, Mudslide_23, Mutzi_28, Mysterious_25, Namago_33, Nanao_22, Nangang_25, Nathan_25, Natkenzie_30, Nehemiah_24, Nigel_21, Nike_33, Nordenberg_24, Nubi_26, OSmaximus_25, Oline_24, OneinaGillian_32, PR_19, Paries_32, PenguinLover67_27, Pepe25_31, Phabia_33, Phaedrus_24, PhatLouie_25, Phauci_21, Phelemich_25, PhenghisKhan_24, Phergie_24, Phinky_39, Phleuron_24, Phlop_26, PhrankReynolds_24, Pine5_25, PinkCoffee_28, Pinkman_24, Plata_25, Portcullis_26, Poster_22, Prince_23, PullumCavea_26, Pumpkiney_31, Purplicious_52, Quammi_31, QueenPie_22, Quesadilla_26, RawrgerThat_23, Reccee_26, Renkei_22, Reprobate_25, Ribeye_30, Rich_24, Rimu_25, Rinkes_28, Rita130_25, RiverRaider_30, RoadKill_25, RobinRose_34, Rofo_30, RogerDodger_29, Romm_34, Rowlf_29, RubyRalph_35, Rudy_31, SadLad_37, Saguaro_26, SallyK_34, Salvador_26, Sampson_30, Sanjuju_28, Saronaya_29, Savbucketdawg_26, SchottB_28, Schueller_24, Scioto_30, Sedona_30, Sendy_27, Serendipitous_24, Shatter_22, Shenyu_25, Shinji_26, Shivanishola_31, Sillytadpoles_33, SirBeauregard_24, SirJeffery_25, Sisko_22, Sitar_30, Sixsevenium_27, SlySloth_35, SmokingBunny_26, Soile_25, Soos_49, Sour_26, Squash_35, Statler_34, Stichling_27, Stillion_53, Sting_52, Stinger_21, StinkyVeggy_27, StorminNorm_29, StrawberryJamm_35, Struggle_24, Stultus_28, Suigeneris_25, Sunfish_41, Swiphy_25, TPA2_31, Tangent_30, Tangerine_29, Taptic_19, Tardus_31, Teehee_34, Tempo_32, Thing3_29, Thonko_24, Tiamoceli_28, TillyBobJoe_26, Tissue_33, Togo_26, Tonitrus_40, TraderJ_24, Trypo_25, Twister6_28, Twonlo_25, Tycho_29, 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, WheelerS25_38, Wheelie_32, Wilca_32, Windsor_24, Wizard_26, Wooper_24, Xincheng_22, Yago84_22, Yeshua_24, YorkOnyx_30, YungMoney_28, Zagie_33, Zemanar_24, Zenteno07_29, Zhafia_35, Zipp_29, Zitch_31, Zonia_25, phiAsp2_21,

Summary by start number:

Start 37:

- Found in 4 of 665 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 566

- Called 25.0% of time when present
- Phage (with cluster) where this start called: Sour_26 (DR),

Start 38:

- Found in 1 of 665 (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 41:

- Found in 35 of 665 (5.3%) of genes in pham
- Manual Annotations of this start: 5 of 566
- Called 34.3% of time when present
- Phage (with cluster) where this start called: Amo99_54 (CP), Clawz_53 (CP), ColdSoup_54 (CP), DonTron_53 (CP), Grumio_53 (CP), Jollymon_53 (CP), KingstonB_54 (CP), Makar_54 (CP), Purplicious_52 (CP), Soos_49 (CP), Stillion_53 (CP), Sting_52 (CP),

Start 42:

- Found in 83 of 665 (12.5%) of genes in pham
- Manual Annotations of this start: 66 of 566
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_021 (B6), 40BC_021 (B6), Aleia_25 (B1), Apizium_24 (B1), Ashraf_24 (B1), BatteryCK_24 (B1), BlacksBerry_24 (B1), Brilliant_25 (B1), Caspiboi_24 (B1), Chaelin_24 (B1), CharlieGBrown_24 (B1), Chute_24 (B1), Coletti_25 (B1), Cornbread_24 (B1), DaddyDaniels_25 (B1), Dati_25 (B1), DelRivs_24 (B1), Derpp_24 (B1), Doddsville_25 (B1), DuchessDung_23 (B1), Duggie_24 (B1), Durga_25 (B1), ElvisPhasley_25 (B1), Etaye_25 (B1), Flake_26 (B1), FleetyMac_24 (B1), ForDig_21 (B6), GeneCoco_25 (B1), Gwennie1_25 (B1), Happabalu_25 (B1), Hartsy_25 (B1), Hekos_22 (B1), Hocus_24 (B1), HogWash_24 (B1), Hosp_019 (B6), ImtiyazSitla_24 (B1), Indlovu_23 (B11), Iridessa_25 (B1), JDog_24 (B1), JakeO_24 (B1), Jiminy_24 (B1), Jolie1_021 (B6), Kailash_25 (B1), Karn_24 (B1), KayaCho_21 (B6), Keitherie_25 (B1), Khan1_25 (B1), Kwksand96_24 (B1), Labeouficaum_24 (B1), Larson_26 (B1), Longacauda_24 (B1), Mag7_24 (B1), Magic8_25 (B1), Maskar_24 (B1), Melc17_25 (B1), MelsMeow_24 (B1), MichaelPhcott_24 (B1), MrPhizzler_25 (B1), Nathan_25 (B1), OSmaximus_25 (B1), Oline_24 (B1), PhatLouie_25 (B1), PhenghisKhan_24 (B1), Phergie_24 (B1), Phleuron_24 (B1), PhrankReynolds_24 (B1), Pinkman_24 (B1), Plata_25 (B1), Rimu_25 (B1), Schueller_24 (B1), SirBeauregard_24 (B1), Soile_25 (B1), Struggle_24 (B1), Swiphy_25 (B1), Trypo_25 (B1), TyrionL_24 (B1), Vaishali24_24 (B1), Veritas_24 (B1), Virgeve_24 (B1), Wallhey_24 (B1), Weher20_25 (B1), Windsor_24 (B1), Zonia_25 (B1),

Start 43:

- Found in 276 of 665 (41.5%) of genes in pham
- Manual Annotations of this start: 254 of 566
- Called 98.2% 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), AngelCake_25 (B1), Antonia_24 (B1), Aonishiki_25 (B1), Arbiter_27 (B2), Ares_27 (B2), Badfish_25 (B1), Bananafish_27 (B2), Banjo_24 (B1), Basato_26 (B1), Beaglebox_24 (B1), Bishoperium_24 (B1), BlackStallion_25 (B1), Blocker23_27 (B2), BlueHusk_25 (B1), Bluephacebaby_24

(B1), Boehler_25 (B1), BoogieWoogie_24 (B1), Boyle_27 (B2), Brownie5_27 (B2), Buckeye_25 (B1), Burr_24 (B1), Calamitous_27 (B2), CamL_25 (B1), CampRoach_25 (B1), Cannibal_25 (B1), Carthage_23 (B1), Charles1_25 (B1), CheetO_25 (B1), Cher_24 (B1), Childish_24 (B1), Chipette_26 (B1), Chorkpop_25 (B1), Chunky_25 (B1), 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), DolOn_26 (B1), DonSancho_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), FremontTroll_25 (B1), FrenchFry_27 (B2), Freya_24 (B1), FriarPreacher_25 (B1), Fringe_25 (B1), FugateOSU_24 (B1), Gareth_24 (B1), Giraffe_25 (B1), Glass_27 (B2), Godines_27 (B2), Gophee_25 (B1), Grand2040_24 (B1), GreenChile_25 (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), Jesabah_25 (B1), Jillium_24 (B1), Jiraiya_24 (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), Kolhan_27 (B2), Kwadwo_24 (B1), Lars_27 (B2), LasagnaCat_25 (B1), Lasso_25 (B1), Laurie_27 (B2), LeeLot_25 (B1), Lego3393_25 (B1), Legolas_24 (B1), Lehmann_25 (B1), LeiMonet_25 (B1), LemonSlice_25 (B1), Lephleur_27 (B2), LilSmirk_27 (B2), LizLemon_27 (B2), Lopsy_24 (B1), LostAndPhound_24 (B1), LuckyMarjie_24 (B1), Lulumae_24 (B1), Lulwa_25 (B1), Lumine_24 (B1), MRabcd_24 (B1), Mana_24 (B1), Manad_24 (B1), Maru_24 (B1), MasterPo_27 (B2), Matalotodo_25 (B1), Mcshane_24 (B1), Mecca_24 (B1), Megamind20_25 (B1), Megatron_25 (B1), Mesh1_25 (B1), Mesmerelda_24 (B1), Mikota_25 (B1), MiniBoss_25 (B1), MitKao_25 (B1), Morgushi_25 (B1), Morty_25 (B1), Mosaic_24 (B1), Mulan_24 (B1), Murdoc_25 (B1), Mutante_24 (B1), Nacho_0025 (B1), Newman_25 (B1), Nicole21_25 (B1), Numberten_25 (B1), Nyala_24 (B1), Olak_24 (B1), Olive_25 (B1), OliverWalter_25 (B1), Omniscient_25 (B1), OneBrain_25 (B1), Oosterbaan_25 (B1), Opia_27 (B2), Orfeu_24 (B1), Orion_25 (B1), Orwigg_24 (B1), PG1_25 (B1), Pacifista_24 (B1), PallasAthena_25 (B1), Phamished_25 (B1), Phantasmagoria_27 (B2), Phareon_25 (B1), PhatCats2014_25 (B1), Pherdinand_25 (B1), Phipps_25 (B1), PhrodoBaggins_24 (B1), Phunky_25 (B1), Piglet_0024 (B1), PinheadLarry_25 (B1), Pipsqueak_25 (B1), Placalicious_24 (B1), Plmatters_25 (B1), Podrick_25 (B1), Pops_25 (B1), Potter_24 (B1), Prickles_25 (B1), PrinceCharming_27 (B2), ProfessorX_25 (B1), Puhltonio_25 (B1), QueenBeane_25 (B1), Quisquiliae_25 (B1), Qyrzula_25 (B2), RedMaple_24 (B1), RedRaider89_26 (B1), Rhinoforte_27 (B2), Ricotta_24 (B1), Riggan_25 (B1), Riverton_24 (B1), Robyn_24 (B1), Roliet_25 (B1), Roscoe_26 (B1), Rosebush_27 (B2), Roy17_25 (B1), SDcharge11_25 (B1), Sabella_27 (B2), SallyH_25 (B1), Samaymay_25 (B1), SassyCat97_24 (B1), Schadenfreude_24 (B1), Scoot17C_25 (B1), Scrick_25 (B1), Selr12_25 (B1), Serendipity_25 (B1), Serpentine_0025 (B1), ShadowBud_25 (B1), Sheila_25 (B1), ShiVal_25 (B1), Sigman_25 (B1), SilverBell_25 (B1), Simielle_24 (B1), Skippy_25 (B1), Slatt_25 (B1), Solosis_24 (B1), 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_28 (B2), TallGrassMM_25 (B1), Telesworld_24 (B1), Thora_25 (B1), ThreeOh3D2_25 (B1), Thunderbird_24 (B1), Timmi_24 (B1), Tinciduntolum_28 (B2), TomBombadil_25 (B1), Tomlarah_25 (B1), Toni_24 (B1), TooFast2Furius_26 (B1), Tooj_25 (B1), Tres_27 (B2), Triad_25

(B1), True_24 (B1), UAch1_25 (B1), UncleHowie_25 (B1), Usavi_25 (B1), Valjean_25 (B1), Vaticameos_25 (B1), Vic9_00027 (B2), Virapocalypse_25 (B1), Vista_25 (B1), Vivaldi_25 (B1), Vortex_25 (B1), Waterdiva_25 (B1), West99_27 (B2), Xavier_24 (B1), Yoshand_25 (B1), YouGoGlencoco_25 (B1), Zaider_26 (B1), Zelda_25 (B1),

Start 44:

- Found in 1 of 665 (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 45:

- Found in 26 of 665 (3.9%) of genes in pham
- Manual Annotations of this start: 19 of 566
- Called 96.2% of time when present
- Phage (with cluster) where this start called: AksarBAT_22 (DR), AnClar_23 (DR), AnarQue_24 (DR), Axumite_22 (DR), BiggityBass_22 (DR), Blackpen_24 (DR), CaiB_24 (DR), CharlottesWeb_22 (DR), CloverMinnie_24 (DR), Coldpizza_25 (DR), Evaa_23 (DR), FelixTres_24 (DR), Fresco_22 (DR), JellyBelly_22 (DR), Ligma_22 (DR), LittleMunchkin_24 (DR), MakoManhole_24 (DR), Mariokart_22 (DR), MossRose_24 (DR), Shatter_22 (DR), Sisko_22 (DR), TraderJ_24 (DR), Wooper_24 (DR), Yago84_22 (DR), Yeshua_24 (DR),

Start 46:

- Found in 4 of 665 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 566
- Called 75.0% of time when present
- Phage (with cluster) where this start called: CRB2_27 (B9), PenguinLover67_27 (B9), Quesadilla_26 (B9),

Start 48:

- Found in 1 of 665 (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: BobRoss2024_21 (DR),

Start 49:

- Found in 39 of 665 (5.9%) of genes in pham
- Manual Annotations of this start: 27 of 566
- Called 94.9% of time when present
- Phage (with cluster) where this start called: Acadian_25 (B5), Baddon_29 (DE1), Bae_24 (B5), BirdsNest_28 (B13), Bizzy_30 (DE1), Derg_25 (DE1), DigitDog_25 (B5), Donny_25 (B5), EastView9101_24 (B5), Flatwoods_30 (DE1), Funsized_28 (B9), Gaea_29 (DE1), Hashim76_29 (B13), Imvubu_19 (B10), JKSyngboy_27 (DE1), KarasumaRum_27 (B5), Knocker_27 (B9), LilMcDreamy_22 (B12), LittleMinkey_30 (B13), Mysterious_25 (B5), Nangang_25 (B5), Nehemiah_24 (B5), Phelemich_25 (B5), Reccee_26 (B5), Reprobate_25 (B5), Ribeye_30 (DE1), Rich_24 (B5), Rinkes_28 (B9), Rita130_25 (B5), Saguaro_26 (B7), Serendipitous_24 (B5), Shenyu_25 (B5), SirJeffery_25 (B5), StinkyVeggy_27 (B5), Suigeneris_25 (B5), YorkOnyx_30 (DE1), Zenteno07_29 (B13),

Start 50:

- Found in 119 of 665 (17.9%) of genes in pham

- Manual Annotations of this start: 85 of 566
- Called 90.8% of time when present
- Phage (with cluster) where this start called: Ahwei_22 (B4), AlanGrant_24 (B4), Altheas_35 (EG), AluminumJesus_31 (EG), Antihero_22 (B4), Apex_23 (B4), Argie_20 (W), Austelle_24 (B4), BabyDotz_32 (EG), BaconCheese_36 (EG), BirdInFrench_32 (EG), Blab_31 (EG), BobbyK_23 (B4), BrownCNA_24 (B4), CandC_31 (EG), Casend_34 (EG), Cepens_19 (W), ChrisnMich_22 (B4), Cooper_23 (B4), D12_19 (W), DonaldDuck_32 (EG), Epah_22 (B4), EverythinBagel_32 (EG), Fanaw_22 (B4), Fizzles_33 (EG), Fortunato_23 (B4), FrankDeliGuy_30 (EG), Fransoyer_35 (EG), Frederick_23 (B4), Fregley_33 (EG), Gazebo_32 (EG), GinPorsche_22 (B4), GodPhather_20 (W), Grassboy_34 (EG), Hally898_22 (B4), Hangman_23 (B4), Heath_22 (B4), Hydro_23 (B4), Hyperion_32 (EG), JaguarMi_23 (B4), Jehoshaphat_35 (EG), Jeon_19 (W), JoyceMaria_23 (B4), Judebell_35 (EG), Kelcole_31 (EG), KillerQueen_33 (EG), Kyva_35 (EG), Lambano_22 (B4), LittleDigger_22 (B4), Llemily_32 (EG), Lolalove_23 (B4), Lonelysoil_32 (EG), Magpie_22 (B4), Marcie_37 (EG), Mashley_31 (EG), Megabear_19 (W), Mentos_38 (EG), Mila11_36 (EG), Mithril_23 (B4), MorillMayhem_32 (EG), Mudslide_23 (B4), Namago_33 (EG), Nanao_22 (B4), Nigel_21 (B4), Nike_33 (EG), OneinaGillian_32 (EG), PR_19 (W), Pepe25_31 (EG), Phabia_33 (EG), Phinky_39 (EG), Poster_22 (B4), Prince_23 (B4), Quammi_31 (EG), QueenPie_22 (B4), RawrgerThat_23 (B4), Renkei_22 (B4), RobinRose_34 (EG), Romm_34 (EG), Rowlf_29 (EG), RubyRalph_35 (EG), Rudy_31 (EG), SadLad_37 (EG), SallyK_34 (EG), Sillytadpoles_33 (EG), SlySloth_35 (EG), Squash_35 (EG), Statler_34 (EG), Stinger_21 (B4), StrawberryJamm_35 (EG), Sunfish_41 (singleton), Taptic_19 (W), Teehee_34 (EG), Tempo_32 (EG), Thonko_24 (B8), Tissue_33 (EG), Viceroy_32 (EG), Vincenzo_24 (B4), VioletZ_23 (B4), Waleliano_23 (B4), Wayne3_34 (EG), WheelerS25_38 (EG), Wheelie_32 (EG), Wilca_32 (EG), Xincheng_22 (B4), Zagie_33 (EG), Zemanar_24 (B4), Zhafia_35 (EG), phiAsp2_21 (singleton),

Start 53:

- Found in 116 of 665 (17.4%) of genes in pham
- Manual Annotations of this start: 103 of 566
- 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 (DE2), Bibwit_29 (DE1), BigHunkinEater_32 (DE4), BobBob_27 (DE1), Brandonk123_31 (DE1), Brawn1_26 (DE1), ChadMasterC_30 (DE1), Charming_30 (DE1), CherryCola_29 (DC1), Chickadee_27 (DE3), ClamChowder_28 (DC1), Clown_30 (DC2), CoveyB_28 (DC1), Danyall_28 (DC1), Delrey21_29 (DE4), Dexdert_28 (DE3), DoctorFroggo_29 (DE4), EMoore_26 (DE2), EdmundFerry_26 (DE3), Egi03_26 (DC1), Evamon_26 (DC1), Fireball_27 (DC1), Fitzgerald_28 (DE1), Fosterous_28 (DE1), FuegoCuervo_32 (DE1), Fugax_28 (DC1), GTE6_27 (DE3), Galadriel_30 (DE1), Geodirt_27 (DE1), Gezellig_26 (DC1), Gustavo_29 (DE1), Halo3_27 (DC1), Hans_30 (DE2), Inspectinfecti_29 (DE2), Jabberwocky_28 (DE1), Jambalaya_26 (DC1), JohnPork_26 (DC), Kamashten_29 (DE1), Keitabear_30 (DE1), Kewpiedoll_29 (DE1), KimmyK_28 (DC1), Kroos_30 (DE1), Kwekel_27 (DE3), Kwobi_31 (DE1), Lennon_30 (DE1), Leonard_28 (DE2), LilHam_27 (DE1), Love_33 (DE1), McCrothy_30 (DE1), McKinley_32 (DE1), MelBins_29 (DE2), MoontowerMania_29 (DE1), Mutzi_28 (DC1), Natkenzie_30 (DE4), Nordenberg_24 (DE1), Nubi_26 (DC1), Paries_32 (DE1), Phauci_21 (DE2), Phinally_28 (DE2), Phlop_26 (DC1), PinkCoffee_28 (DC1), Portcullis_26 (DC1), PullumCavea_26 (DC1), Pumpkiney_31 (DE4), RiverRaider_30

(DE1), RoadKill_25 (DE3), Rofo_30 (DE1), RogerDodger_29 (DC1), Salvador_26 (DC1), Sampson_30 (DE4), Sanjuju_28 (DE1), Saronaya_29 (DE1), Savbucketdawg_26 (DC1), SchottB_28 (DE1), Scioto_30 (DE4), Sedona_30 (DE1), Sendy_27 (DC), Shinji_26 (DC1), Shivanishola_31 (DE1), Sitar_30 (DE1), Sixsevenium_27 (DC), SmokingBunny_26 (DC1), Stichling_27 (DE1), 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 57:

- Found in 9 of 665 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Tonitrus_40 (singleton),

Start 66:

- Found in 32 of 665 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Chuni_24 (B1),

Start 68:

- Found in 21 of 665 (3.2%) of genes in pham
- No Manual Annotations of this start.
- Called 9.5% of time when present
- Phage (with cluster) where this start called: Caterpie_21 (AD), JohnLord_22 (AD),

Start 72:

- Found in 355 of 665 (53.4%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 0.3% of time when present
- Phage (with cluster) where this start called: Chah_26 (B1),

Start 73:

- Found in 417 of 665 (62.7%) of genes in pham
- Manual Annotations of this start: 1 of 566
- Called 0.2% of time when present
- Phage (with cluster) where this start called: Phaedrus_24 (B3),

Summary by clusters:

There are 26 clusters represented in this pham: singleton, DC, B12, B13, B10, B11, DR, AD, EG, W, CP, DC2, DC1, DE1, DE2, DE3, DE4, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster B1:

- Start number 42 was manually annotated 63 times for cluster B1.
- Start number 43 was manually annotated 217 times for cluster B1.
- Start number 72 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B10:

- Start number 49 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 42 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 49 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 49 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 43 was manually annotated 37 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 73 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B4:

- Start number 50 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 49 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 42 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

- Start number 49 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 50 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 46 was manually annotated 3 times for cluster B9.
- Start number 49 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster CP:

- Start number 41 was manually annotated 5 times for cluster CP.

Info for manual annotations of cluster DC1:

- Start number 53 was manually annotated 32 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 53 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 49 was manually annotated 8 times for cluster DE1.
- Start number 53 was manually annotated 45 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 53 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 53 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 53 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DR:

- Start number 37 was manually annotated 1 time for cluster DR.
- Start number 45 was manually annotated 19 times for cluster DR.

Info for manual annotations of cluster EG:

- Start number 50 was manually annotated 50 times for cluster EG.

Info for manual annotations of cluster W:

- Start number 50 was manually annotated 8 times for cluster W.

Gene Information:

Gene: 39HC_021 Start: 17860, Stop: 18273, Start Num: 42

Candidate Starts for 39HC_021:

(Start: 42 @17860 has 66 MA's), (79, 18028), (88, 18055), (112, 18172),

Gene: 40BC_021 Start: 17860, Stop: 18273, Start Num: 42

Candidate Starts for 40BC_021:

(Start: 42 @17860 has 66 MA's), (79, 18028), (88, 18055), (112, 18172),

Gene: ABU_25 Start: 18669, Stop: 19091, Start Num: 43

Candidate Starts for ABU_25:

(29, 18603), (Start: 43 @18669 has 254 MA's), (Start: 72 @18792 has 1 MA's), (Start: 73 @18798 has 1 MA's), (74, 18804), (88, 18867), (94, 18909), (113, 18987), (121, 19035), (125, 19059), (130, 19077), (132, 19083),

Gene: APunk_31 Start: 22352, Stop: 22783, Start Num: 53

Candidate Starts for APunk_31:

(30, 22292), (Start: 41 @22325 has 5 MA's), (Start: 53 @22352 has 103 MA's), (75, 22481), (82, 22511), (98, 22613), (99, 22619), (102, 22634), (119, 22691), (120, 22706), (131, 22754), (132, 22757),

Gene: Abblin_30 Start: 22964, Stop: 23395, Start Num: 53

Candidate Starts for Abblin_30:

(30, 22904), (Start: 41 @22937 has 5 MA's), (Start: 53 @22964 has 103 MA's), (75, 23093), (82, 23123), (98, 23225), (99, 23231), (102, 23246), (119, 23303), (120, 23318), (131, 23366), (132, 23369),

Gene: AbsoluteMadLad_24 Start: 18670, Stop: 19092, Start Num: 43

Candidate Starts for AbsoluteMadLad_24:

(29, 18604), (Start: 43 @18670 has 254 MA's), (Start: 72 @18793 has 1 MA's), (Start: 73 @18799 has 1 MA's), (74, 18805), (88, 18868), (94, 18910), (113, 18988), (121, 19036), (125, 19060), (130, 19078), (132, 19084),

Gene: Acadian_25 Start: 19389, Stop: 19805, Start Num: 49

Candidate Starts for Acadian_25:

(Start: 49 @19389 has 27 MA's), (63, 19449), (74, 19518), (94, 19623), (97, 19653), (133, 19800),

Gene: Adriana_25 Start: 18672, Stop: 19094, Start Num: 43

Candidate Starts for Adriana_25:

(29, 18606), (Start: 43 @18672 has 254 MA's), (Start: 72 @18795 has 1 MA's), (Start: 73 @18801 has 1 MA's), (74, 18807), (88, 18870), (94, 18912), (113, 18990), (121, 19038), (125, 19062), (130, 19080), (132, 19086),

Gene: Aelin_24 Start: 18235, Stop: 18657, Start Num: 43

Candidate Starts for Aelin_24:

(29, 18169), (Start: 43 @18235 has 254 MA's), (Start: 72 @18358 has 1 MA's), (Start: 73 @18364 has 1 MA's), (74, 18370), (88, 18433), (94, 18475), (113, 18553), (121, 18601), (125, 18625), (130, 18643), (132, 18649),

Gene: Affeca_28 Start: 22852, Stop: 23286, Start Num: 53

Candidate Starts for Affeca_28:

(40, 22822), (Start: 53 @22852 has 103 MA's), (71, 22936), (82, 23011), (89, 23035), (98, 23113), (102, 23134), (120, 23206), (132, 23257),

Gene: Ahwei_22 Start: 18304, Stop: 18717, Start Num: 50

Candidate Starts for Ahwei_22:

(Start: 50 @18304 has 85 MA's), (Start: 72 @18418 has 1 MA's), (Start: 73 @18424 has 1 MA's), (74, 18430), (79, 18466), (88, 18493), (90, 18505), (93, 18517), (94, 18535), (113, 18613), (124, 18682), (132, 18709),

Gene: Ailee_28 Start: 23561, Stop: 23995, Start Num: 53

Candidate Starts for Ailee_28:

(Start: 53 @23561 has 103 MA's), (71, 23645), (82, 23720), (89, 23744), (98, 23822), (102, 23843), (120, 23915), (132, 23966),

Gene: AksarBAT_22 Start: 17149, Stop: 17565, Start Num: 45

Candidate Starts for AksarBAT_22:

(Start: 45 @17149 has 19 MA's), (Start: 73 @17278 has 1 MA's), (94, 17392), (96, 17416),

Gene: AlanGrant_24 Start: 20089, Stop: 20502, Start Num: 50

Candidate Starts for AlanGrant_24:

(31, 20038), (Start: 50 @20089 has 85 MA's), (Start: 73 @20209 has 1 MA's), (74, 20215), (90, 20290), (94, 20320), (112, 20395), (116, 20413), (132, 20494),

Gene: Aleia_25 Start: 18248, Stop: 18670, Start Num: 42

Candidate Starts for Aleia_25:

(Start: 42 @18248 has 66 MA's), (Start: 72 @18371 has 1 MA's), (Start: 73 @18377 has 1 MA's), (74, 18383), (88, 18446), (94, 18488), (113, 18566), (121, 18614), (125, 18638), (130, 18656), (132, 18662),

Gene: Ali17_26 Start: 20746, Stop: 21177, Start Num: 53

Candidate Starts for Ali17_26:

(12, 20518), (15, 20554), (28, 20659), (Start: 41 @20719 has 5 MA's), (Start: 53 @20746 has 103 MA's), (71, 20830), (88, 20926), (98, 21007), (99, 21013), (101, 21025), (119, 21085), (122, 21109), (131, 21148), (132, 21151),

Gene: Allegro_27 Start: 20836, Stop: 21264, Start Num: 43

Candidate Starts for Allegro_27:

(35, 20809), (Start: 43 @20836 has 254 MA's), (52, 20851), (Start: 73 @20968 has 1 MA's), (74, 20974), (77, 21001), (84, 21022), (88, 21040), (113, 21160), (115, 21166), (124, 21229), (132, 21256),

Gene: AltPhacts_25 Start: 18664, Stop: 19086, Start Num: 43

Candidate Starts for AltPhacts_25:

(29, 18598), (Start: 43 @18664 has 254 MA's), (Start: 72 @18787 has 1 MA's), (Start: 73 @18793 has 1 MA's), (74, 18799), (88, 18862), (94, 18904), (113, 18982), (121, 19030), (125, 19054), (130, 19072), (132, 19078),

Gene: Altheas_35 Start: 22433, Stop: 22843, Start Num: 50

Candidate Starts for Altheas_35:

(Start: 50 @22433 has 85 MA's), (79, 22592), (93, 22649), (94, 22667), (100, 22706), (106, 22721),

Gene: Altwerkus_24 Start: 18364, Stop: 18786, Start Num: 43

Candidate Starts for Altwerkus_24:

(29, 18298), (Start: 43 @18364 has 254 MA's), (Start: 72 @18487 has 1 MA's), (Start: 73 @18493 has 1 MA's), (74, 18499), (88, 18562), (94, 18604), (113, 18682), (121, 18730), (125, 18754), (130, 18772), (132, 18778),

Gene: AluminumJesus_31 Start: 21927, Stop: 22340, Start Num: 50

Candidate Starts for AluminumJesus_31:

(30, 21870), (Start: 50 @21927 has 85 MA's), (69, 21999), (79, 22086), (100, 22203), (106, 22218),

Gene: Amo99_54 Start: 29535, Stop: 29960, Start Num: 41

Candidate Starts for Amo99_54:

(Start: 41 @29535 has 5 MA's), (86, 29733), (96, 29805), (113, 29859), (116, 29874),

Gene: AnClar_23 Start: 19435, Stop: 19848, Start Num: 45

Candidate Starts for AnClar_23:

(Start: 45 @19435 has 19 MA's), (64, 19504), (74, 19570), (84, 19618), (95, 19684), (101, 19726), (124, 19825),

Gene: AnarQue_24 Start: 18618, Stop: 19028, Start Num: 45

Candidate Starts for AnarQue_24:

(Start: 45 @18618 has 19 MA's), (78, 18780), (81, 18792), (94, 18858), (96, 18882), (107, 18921), (113, 18936), (125, 19008),

Gene: Anderson_25 Start: 18662, Stop: 19084, Start Num: 43

Candidate Starts for Anderson_25:

(29, 18596), (Start: 43 @18662 has 254 MA's), (Start: 72 @18785 has 1 MA's), (Start: 73 @18791 has 1 MA's), (74, 18797), (88, 18860), (94, 18902), (113, 18980), (121, 19028), (125, 19052), (130, 19070), (132, 19076),

Gene: Andre_25 Start: 18660, Stop: 19082, Start Num: 43

Candidate Starts for Andre_25:

(29, 18594), (Start: 43 @18660 has 254 MA's), (Start: 72 @18783 has 1 MA's), (Start: 73 @18789 has 1 MA's), (74, 18795), (88, 18858), (94, 18900), (113, 18978), (121, 19026), (125, 19050), (130, 19068), (132, 19074),

Gene: AngelCake_25 Start: 18675, Stop: 19097, Start Num: 43

Candidate Starts for AngelCake_25:

(29, 18609), (Start: 43 @18675 has 254 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: Angelicage_28 Start: 23269, Stop: 23703, Start Num: 53

Candidate Starts for Angelicage_28:

(40, 23239), (Start: 53 @23269 has 103 MA's), (71, 23353), (82, 23428), (89, 23452), (98, 23530), (102, 23551), (120, 23623), (132, 23674),

Gene: Antihero_22 Start: 18304, Stop: 18717, Start Num: 50

Candidate Starts for Antihero_22:

(Start: 50 @18304 has 85 MA's), (Start: 72 @18418 has 1 MA's), (Start: 73 @18424 has 1 MA's), (74, 18430), (79, 18466), (88, 18493), (90, 18505), (93, 18517), (94, 18535), (113, 18613), (124, 18682), (132, 18709),

Gene: Antonia_24 Start: 18235, Stop: 18657, Start Num: 43

Candidate Starts for Antonia_24:

(29, 18169), (Start: 43 @18235 has 254 MA's), (Start: 72 @18358 has 1 MA's), (Start: 73 @18364 has 1 MA's), (74, 18370), (88, 18433), (94, 18475), (113, 18553), (121, 18601), (125, 18625), (130, 18643), (132, 18649),

Gene: Aonishiki_25 Start: 18690, Stop: 19112, Start Num: 43

Candidate Starts for Aonishiki_25:

(29, 18624), (Start: 43 @18690 has 254 MA's), (Start: 72 @18813 has 1 MA's), (Start: 73 @18819 has 1 MA's), (74, 18825), (88, 18888), (94, 18930), (113, 19008), (121, 19056), (125, 19080), (130, 19098), (132, 19104),

Gene: Apex_23 Start: 19517, Stop: 19930, Start Num: 50

Candidate Starts for Apex_23:

(Start: 50 @19517 has 85 MA's), (Start: 72 @19631 has 1 MA's), (Start: 73 @19637 has 1 MA's), (74, 19643), (79, 19679), (90, 19718), (93, 19730), (94, 19748), (113, 19826), (116, 19841), (124, 19895), (125, 19898), (132, 19922),

Gene: Apizium_24 Start: 18422, Stop: 18844, Start Num: 42

Candidate Starts for Apizium_24:

(Start: 42 @18422 has 66 MA's), (66, 18494), (Start: 72 @18545 has 1 MA's), (Start: 73 @18551 has 1 MA's), (74, 18557), (88, 18620), (94, 18662), (113, 18740), (121, 18788), (125, 18812), (130, 18830), (132, 18836),

Gene: Arbiter_27 Start: 20921, Stop: 21349, Start Num: 43

Candidate Starts for Arbiter_27:

(35, 20894), (Start: 43 @20921 has 254 MA's), (52, 20936), (Start: 73 @21053 has 1 MA's), (74, 21059), (77, 21086), (84, 21107), (88, 21125), (113, 21245), (115, 21251), (124, 21314), (132, 21341),

Gene: Ares_27 Start: 20837, Stop: 21265, Start Num: 43

Candidate Starts for Ares_27:

(35, 20810), (Start: 43 @20837 has 254 MA's), (52, 20852), (Start: 73 @20969 has 1 MA's), (74, 20975), (77, 21002), (84, 21023), (88, 21041), (113, 21161), (115, 21167), (124, 21230), (132, 21257),

Gene: Argie_20 Start: 18470, Stop: 18880, Start Num: 50

Candidate Starts for Argie_20:

(Start: 50 @18470 has 85 MA's), (68, 18545), (Start: 73 @18590 has 1 MA's), (74, 18596), (81, 18638), (88, 18662), (92, 18683), (112, 18785), (121, 18830),

Gene: Arri_29 Start: 18253, Stop: 18696, Start Num: 53

Candidate Starts for Arri_29:

(Start: 53 @18253 has 103 MA's), (98, 18514), (132, 18670),

Gene: Ashertheman_30 Start: 22146, Stop: 22580, Start Num: 53

Candidate Starts for Ashertheman_30:

(Start: 50 @22137 has 85 MA's), (Start: 53 @22146 has 103 MA's), (71, 22230), (82, 22305), (98, 22407), (102, 22428), (119, 22485), (120, 22500), (132, 22551),

Gene: Ashraf_24 Start: 18226, Stop: 18648, Start Num: 42

Candidate Starts for Ashraf_24:

(Start: 42 @18226 has 66 MA's), (Start: 72 @18349 has 1 MA's), (Start: 73 @18355 has 1 MA's), (74, 18361), (88, 18424), (94, 18466), (113, 18544), (121, 18592), (125, 18616), (130, 18634), (132, 18640),

Gene: Austelle_24 Start: 19973, Stop: 20386, Start Num: 50

Candidate Starts for Austelle_24:

(Start: 50 @19973 has 85 MA's), (Start: 72 @20087 has 1 MA's), (Start: 73 @20093 has 1 MA's), (74, 20099), (79, 20135), (90, 20174), (93, 20186), (94, 20204), (113, 20282), (116, 20297), (124, 20351), (125, 20354), (132, 20378),

Gene: Axumite_22 Start: 17225, Stop: 17635, Start Num: 45

Candidate Starts for Axumite_22:

(Start: 45 @17225 has 19 MA's), (68, 17306), (Start: 72 @17345 has 1 MA's), (74, 17357), (81, 17399), (84, 17405), (88, 17423), (101, 17513),

Gene: BabyDotz_32 Start: 22195, Stop: 22599, Start Num: 50

Candidate Starts for BabyDotz_32:

(34, 22150), (Start: 50 @22195 has 85 MA's), (54, 22207), (56, 22231), (92, 22405), (94, 22426), (103, 22471), (106, 22480), (131, 22585), (134, 22594),

Gene: BaconCheese_36 Start: 23444, Stop: 23848, Start Num: 50

Candidate Starts for BaconCheese_36:

(30, 23387), (Start: 50 @23444 has 85 MA's), (56, 23480), (92, 23654), (94, 23675), (103, 23720), (106, 23729), (131, 23834), (134, 23843),

Gene: Baddon_29 Start: 22946, Stop: 23380, Start Num: 49

Candidate Starts for Baddon_29:

(Start: 49 @22946 has 27 MA's), (67, 23000), (71, 23030), (82, 23105), (98, 23207), (102, 23228), (120, 23300), (132, 23351),

Gene: Badfish_25 Start: 18694, Stop: 19116, Start Num: 43

Candidate Starts for Badfish_25:

(29, 18628), (Start: 43 @18694 has 254 MA's), (Start: 72 @18817 has 1 MA's), (Start: 73 @18823 has 1 MA's), (74, 18829), (88, 18892), (94, 18934), (113, 19012), (121, 19060), (125, 19084), (130, 19102), (132, 19108),

Gene: Bae_24 Start: 19145, Stop: 19561, Start Num: 49

Candidate Starts for Bae_24:

(Start: 49 @19145 has 27 MA's), (Start: 72 @19262 has 1 MA's), (74, 19274), (88, 19337), (124, 19526), (133, 19556),

Gene: Bakery_27 Start: 17507, Stop: 17950, Start Num: 53

Candidate Starts for Bakery_27:

(Start: 53 @17507 has 103 MA's), (132, 17924),

Gene: Bananafish_27 Start: 20833, Stop: 21261, Start Num: 43

Candidate Starts for Bananafish_27:

(35, 20806), (Start: 43 @20833 has 254 MA's), (52, 20848), (Start: 73 @20965 has 1 MA's), (74, 20971), (77, 20998), (84, 21019), (88, 21037), (113, 21157), (115, 21163), (124, 21226), (132, 21253),

Gene: Banjo_24 Start: 18371, Stop: 18793, Start Num: 43

Candidate Starts for Banjo_24:

(29, 18305), (Start: 43 @18371 has 254 MA's), (Start: 72 @18494 has 1 MA's), (Start: 73 @18500 has 1 MA's), (74, 18506), (88, 18569), (94, 18611), (113, 18689), (121, 18737), (125, 18761), (130, 18779), (132, 18785),

Gene: Barb_28 Start: 18286, Stop: 18729, Start Num: 53

Candidate Starts for Barb_28:

(Start: 53 @18286 has 103 MA's), (98, 18547), (132, 18703),

Gene: Barsten_30 Start: 22693, Stop: 23127, Start Num: 53

Candidate Starts for Barsten_30:

(40, 22663), (Start: 53 @22693 has 103 MA's), (71, 22777), (82, 22852), (89, 22876), (98, 22954), (102, 22975), (120, 23047), (132, 23098),

Gene: Basato_26 Start: 18896, Stop: 19318, Start Num: 43

Candidate Starts for Basato_26:

(29, 18830), (Start: 43 @18896 has 254 MA's), (Start: 72 @19019 has 1 MA's), (Start: 73 @19025 has 1 MA's), (74, 19031), (88, 19094), (94, 19136), (113, 19214), (121, 19262), (125, 19286), (130, 19304), (132, 19310),

Gene: BatteryCK_24 Start: 18248, Stop: 18670, Start Num: 42

Candidate Starts for BatteryCK_24:

(Start: 42 @18248 has 66 MA's), (66, 18320), (Start: 72 @18371 has 1 MA's), (Start: 73 @18377 has 1 MA's), (74, 18383), (88, 18446), (94, 18488), (113, 18566), (121, 18614), (125, 18638), (130, 18656), (132, 18662),

Gene: Baumdotcom_29 Start: 21761, Stop: 22195, Start Num: 53

Candidate Starts for Baumdotcom_29:

(Start: 50 @21752 has 85 MA's), (Start: 53 @21761 has 103 MA's), (71, 21845), (82, 21920), (98, 22022), (102, 22043), (119, 22100), (120, 22115), (132, 22166),

Gene: Beaglebox_24 Start: 18391, Stop: 18813, Start Num: 43

Candidate Starts for Beaglebox_24:

(29, 18325), (Start: 43 @18391 has 254 MA's), (Start: 72 @18514 has 1 MA's), (Start: 73 @18520 has 1 MA's), (74, 18526), (88, 18589), (94, 18631), (113, 18709), (121, 18757), (125, 18781), (130, 18799), (132, 18805),

Gene: Belphegor_28 Start: 22298, Stop: 22729, Start Num: 53

Candidate Starts for Belphegor_28:

(33, 22247), (Start: 41 @22271 has 5 MA's), (Start: 53 @22298 has 103 MA's), (71, 22382), (88, 22478), (98, 22559), (99, 22565), (101, 22577), (119, 22637), (120, 22652), (122, 22661), (125, 22679), (131, 22700), (132, 22703),

Gene: Bibwit_29 Start: 22880, Stop: 23314, Start Num: 53

Candidate Starts for Bibwit_29:

(Start: 53 @22880 has 103 MA's), (71, 22964), (82, 23039), (89, 23063), (98, 23141), (102, 23162), (119, 23219), (120, 23234), (132, 23285),

Gene: BigHunkinEater_32 Start: 22135, Stop: 22566, Start Num: 53

Candidate Starts for BigHunkinEater_32:

(Start: 41 @22108 has 5 MA's), (Start: 53 @22135 has 103 MA's), (71, 22219), (75, 22264), (82, 22294), (88, 22315), (98, 22396), (99, 22402), (102, 22417), (119, 22474), (120, 22489), (131, 22537), (132, 22540),

Gene: BiggityBass_22 Start: 19520, Stop: 19933, Start Num: 45

Candidate Starts for BiggityBass_22:

(Start: 45 @19520 has 19 MA's), (64, 19589), (84, 19703), (95, 19769), (124, 19910),

Gene: BirdInFrench_32 Start: 20827, Stop: 21222, Start Num: 50

Candidate Starts for BirdInFrench_32:

(Start: 50 @20827 has 85 MA's), (Start: 57 @20869 has 1 MA's), (62, 20878), (79, 20986), (111, 21127), (126, 21196), (131, 21214),

Gene: BirdsNest_28 Start: 18737, Stop: 19153, Start Num: 49

Candidate Starts for BirdsNest_28:

(Start: 49 @18737 has 27 MA's), (76, 18890), (77, 18893), (113, 19049), (116, 19064), (132, 19145),

Gene: Bishoperium_24 Start: 18377, Stop: 18799, Start Num: 43

Candidate Starts for Bishoperium_24:

(29, 18311), (Start: 43 @18377 has 254 MA's), (Start: 72 @18500 has 1 MA's), (Start: 73 @18506 has 1 MA's), (74, 18512), (88, 18575), (94, 18617), (113, 18695), (121, 18743), (125, 18767), (130, 18785), (132, 18791),

Gene: Bizzy_30 Start: 22093, Stop: 22527, Start Num: 49

Candidate Starts for Bizzy_30:

(Start: 49 @22093 has 27 MA's), (67, 22147), (71, 22177), (82, 22252), (98, 22354), (102, 22375), (120, 22447), (132, 22498),

Gene: Blab_31 Start: 21852, Stop: 22265, Start Num: 50

Candidate Starts for Blab_31:

(30, 21795), (Start: 50 @21852 has 85 MA's), (69, 21924), (79, 22011), (100, 22128), (106, 22143),

Gene: BlackStallion_25 Start: 18682, Stop: 19104, Start Num: 43

Candidate Starts for BlackStallion_25:

(29, 18616), (Start: 43 @18682 has 254 MA's), (Start: 72 @18805 has 1 MA's), (Start: 73 @18811 has 1 MA's), (74, 18817), (88, 18880), (94, 18922), (113, 19000), (121, 19048), (125, 19072), (130, 19090), (132, 19096),

Gene: Blackpen_24 Start: 18036, Stop: 18446, Start Num: 45

Candidate Starts for Blackpen_24:

(Start: 45 @18036 has 19 MA's), (78, 18198), (81, 18210), (94, 18276), (96, 18300), (107, 18339), (113, 18354), (125, 18426),

Gene: BlacksBerry_24 Start: 18386, Stop: 18808, Start Num: 42

Candidate Starts for BlacksBerry_24:

(Start: 42 @18386 has 66 MA's), (66, 18458), (Start: 72 @18509 has 1 MA's), (Start: 73 @18515 has 1 MA's), (74, 18521), (88, 18584), (94, 18626), (113, 18704), (121, 18752), (125, 18776), (130, 18794), (132, 18800),

Gene: Blocker23_27 Start: 20954, Stop: 21382, Start Num: 43

Candidate Starts for Blocker23_27:

(35, 20927), (Start: 43 @20954 has 254 MA's), (52, 20969), (Start: 73 @21086 has 1 MA's), (74, 21092), (77, 21119), (84, 21140), (88, 21158), (113, 21278), (115, 21284), (124, 21347), (132, 21374),

Gene: BlueHusk_25 Start: 18178, Stop: 18600, Start Num: 43

Candidate Starts for BlueHusk_25:

(29, 18112), (Start: 43 @18178 has 254 MA's), (Start: 72 @18301 has 1 MA's), (Start: 73 @18307 has 1 MA's), (74, 18313), (88, 18376), (94, 18418), (113, 18496), (121, 18544), (125, 18568), (130, 18586), (132, 18592),

Gene: Bluephacebaby_24 Start: 18377, Stop: 18799, Start Num: 43

Candidate Starts for Bluephacebaby_24:

(29, 18311), (Start: 43 @18377 has 254 MA's), (Start: 72 @18500 has 1 MA's), (Start: 73 @18506 has 1 MA's), (74, 18512), (88, 18575), (94, 18617), (113, 18695), (121, 18743), (125, 18767), (130, 18785), (132, 18791),

Gene: BobBob_27 Start: 22158, Stop: 22592, Start Num: 53

Candidate Starts for BobBob_27:

(40, 22128), (Start: 53 @22158 has 103 MA's), (71, 22242), (82, 22317), (89, 22341), (98, 22419), (120, 22512), (132, 22563),

Gene: BobRoss2024_21 Start: 16983, Stop: 17393, Start Num: 48

Candidate Starts for BobRoss2024_21:

(48, 16983), (85, 17166), (90, 17193), (107, 17286), (125, 17373),

Gene: BobbyK_23 Start: 19336, Stop: 19749, Start Num: 50

Candidate Starts for BobbyK_23:

(Start: 50 @19336 has 85 MA's), (Start: 72 @19450 has 1 MA's), (Start: 73 @19456 has 1 MA's), (74, 19462), (79, 19498), (90, 19537), (93, 19549), (94, 19567), (113, 19645), (116, 19660), (124, 19714), (125, 19717), (132, 19741),

Gene: Boehler_25 Start: 18687, Stop: 19109, Start Num: 43

Candidate Starts for Boehler_25:

(29, 18621), (Start: 43 @18687 has 254 MA's), (Start: 72 @18810 has 1 MA's), (Start: 73 @18816 has 1 MA's), (74, 18822), (88, 18885), (94, 18927), (113, 19005), (121, 19053), (125, 19077), (130, 19095), (132, 19101),

Gene: BoogieWoogie_24 Start: 18364, Stop: 18786, Start Num: 43

Candidate Starts for BoogieWoogie_24:

(29, 18298), (Start: 43 @18364 has 254 MA's), (Start: 72 @18487 has 1 MA's), (Start: 73 @18493 has 1 MA's), (74, 18499), (88, 18562), (94, 18604), (113, 18682), (121, 18730), (125, 18754), (130, 18772), (132, 18778),

Gene: Boyle_27 Start: 20955, Stop: 21383, Start Num: 43

Candidate Starts for Boyle_27:

(35, 20928), (Start: 43 @20955 has 254 MA's), (52, 20970), (Start: 73 @21087 has 1 MA's), (74, 21093), (77, 21120), (84, 21141), (88, 21159), (113, 21279), (115, 21285), (124, 21348), (132, 21375),

Gene: Brandonk123_31 Start: 23227, Stop: 23661, Start Num: 53

Candidate Starts for Brandonk123_31:

(40, 23197), (Start: 53 @23227 has 103 MA's), (71, 23311), (82, 23386), (89, 23410), (98, 23488), (120, 23581), (132, 23632),

Gene: Brawn1_26 Start: 22044, Stop: 22478, Start Num: 53

Candidate Starts for Brawn1_26:

(40, 22014), (Start: 53 @22044 has 103 MA's), (71, 22128), (82, 22203), (89, 22227), (98, 22305), (102, 22326), (120, 22398), (132, 22449),

Gene: Brilliant_25 Start: 18382, Stop: 18804, Start Num: 42

Candidate Starts for Brilliant_25:

(Start: 42 @18382 has 66 MA's), (Start: 72 @18505 has 1 MA's), (Start: 73 @18511 has 1 MA's), (74, 18517), (88, 18580), (94, 18622), (113, 18700), (121, 18748), (125, 18772), (130, 18790), (132, 18796),

Gene: BrownCNA_24 Start: 19588, Stop: 20001, Start Num: 50

Candidate Starts for BrownCNA_24:

(Start: 50 @19588 has 85 MA's), (Start: 72 @19702 has 1 MA's), (Start: 73 @19708 has 1 MA's), (74, 19714), (79, 19750), (90, 19789), (93, 19801), (94, 19819), (113, 19897), (124, 19966), (125, 19969), (132, 19993),

Gene: Brownie5_27 Start: 20954, Stop: 21382, Start Num: 43

Candidate Starts for Brownie5_27:

(35, 20927), (Start: 43 @20954 has 254 MA's), (52, 20969), (Start: 73 @21086 has 1 MA's), (74, 21092), (77, 21119), (84, 21140), (88, 21158), (113, 21278), (115, 21284), (124, 21347), (132, 21374),

Gene: Buckeye_25 Start: 18701, Stop: 19123, Start Num: 43

Candidate Starts for Buckeye_25:

(29, 18635), (Start: 43 @18701 has 254 MA's), (Start: 72 @18824 has 1 MA's), (Start: 73 @18830 has 1 MA's), (74, 18836), (88, 18899), (94, 18941), (113, 19019), (121, 19067), (125, 19091), (130, 19109), (132, 19115),

Gene: Burr_24 Start: 18376, Stop: 18798, Start Num: 43

Candidate Starts for Burr_24:

(29, 18310), (Start: 43 @18376 has 254 MA's), (Start: 72 @18499 has 1 MA's), (Start: 73 @18505 has 1 MA's), (74, 18511), (88, 18574), (94, 18616), (113, 18694), (121, 18742), (125, 18766), (130, 18784), (132, 18790),

Gene: CRB2_27 Start: 21048, Stop: 21482, Start Num: 46

Candidate Starts for CRB2_27:

(Start: 46 @21048 has 3 MA's), (63, 21111), (64, 21114), (Start: 73 @21174 has 1 MA's), (74, 21180), (79, 21216), (88, 21243), (90, 21255), (113, 21363), (124, 21432),

Gene: CaiB_24 Start: 18604, Stop: 19014, Start Num: 45

Candidate Starts for CaiB_24:

(Start: 45 @18604 has 19 MA's), (81, 18778), (113, 18922),

Gene: Calamitous_27 Start: 20834, Stop: 21262, Start Num: 43

Candidate Starts for Calamitous_27:

(35, 20807), (Start: 43 @20834 has 254 MA's), (52, 20849), (Start: 73 @20966 has 1 MA's), (74, 20972), (77, 20999), (84, 21020), (88, 21038), (113, 21158), (115, 21164), (124, 21227), (132, 21254),

Gene: CamL_25 Start: 18675, Stop: 19097, Start Num: 43

Candidate Starts for CamL_25:

(29, 18609), (Start: 43 @18675 has 254 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: CampRoach_25 Start: 18668, Stop: 19090, Start Num: 43

Candidate Starts for CampRoach_25:

(29, 18602), (Start: 43 @18668 has 254 MA's), (Start: 72 @18791 has 1 MA's), (Start: 73 @18797 has 1 MA's), (74, 18803), (88, 18866), (94, 18908), (113, 18986), (121, 19034), (125, 19058), (130, 19076), (132, 19082),

Gene: CandC_31 Start: 20527, Stop: 20922, Start Num: 50

Candidate Starts for CandC_31:

(Start: 50 @20527 has 85 MA's), (62, 20578), (79, 20686), (94, 20761), (111, 20827), (131, 20914),

Gene: Cannibal_25 Start: 18661, Stop: 19083, Start Num: 43

Candidate Starts for Cannibal_25:

(29, 18595), (Start: 43 @18661 has 254 MA's), (Start: 72 @18784 has 1 MA's), (Start: 73 @18790 has 1 MA's), (74, 18796), (88, 18859), (94, 18901), (113, 18979), (121, 19027), (125, 19051), (130, 19069), (132, 19075),

Gene: Carthage_23 Start: 17587, Stop: 18009, Start Num: 43

Candidate Starts for Carthage_23:

(29, 17521), (Start: 43 @17587 has 254 MA's), (Start: 72 @17710 has 1 MA's), (Start: 73 @17716 has 1 MA's), (74, 17722), (88, 17785), (94, 17827), (113, 17905), (121, 17953), (125, 17977), (130, 17995), (132, 18001),

Gene: Casend_34 Start: 22604, Stop: 23008, Start Num: 50

Candidate Starts for Casend_34:

(30, 22547), (Start: 50 @22604 has 85 MA's), (56, 22640), (92, 22814), (94, 22835), (103, 22880), (106, 22889), (131, 22994), (134, 23003),

Gene: Caspiboi_24 Start: 18381, Stop: 18803, Start Num: 42

Candidate Starts for Caspiboi_24:

(Start: 42 @18381 has 66 MA's), (Start: 72 @18504 has 1 MA's), (Start: 73 @18510 has 1 MA's), (74, 18516), (88, 18579), (94, 18621), (113, 18699), (121, 18747), (125, 18771), (130, 18789), (132, 18795),

Gene: Caterpie_21 Start: 16495, Stop: 16821, Start Num: 68

Candidate Starts for Caterpie_21:

(Start: 49 @16417 has 27 MA's), (68, 16495), (Start: 73 @16540 has 1 MA's), (74, 16546), (88, 16612), (94, 16654), (102, 16705), (123, 16795),

Gene: Cepens_19 Start: 18194, Stop: 18604, Start Num: 50

Candidate Starts for Cepens_19:

(Start: 50 @18194 has 85 MA's), (68, 18269), (Start: 73 @18314 has 1 MA's), (74, 18320), (81, 18362), (88, 18386), (92, 18407), (112, 18509), (121, 18554),

Gene: ChadMasterC_30 Start: 23885, Stop: 24319, Start Num: 53

Candidate Starts for ChadMasterC_30:

(40, 23855), (Start: 53 @23885 has 103 MA's), (71, 23969), (82, 24044), (89, 24068), (98, 24146), (102, 24167), (120, 24239), (132, 24290),

Gene: Chaelin_24 Start: 18361, Stop: 18783, Start Num: 42

Candidate Starts for Chaelin_24:

(Start: 42 @18361 has 66 MA's), (66, 18433), (Start: 72 @18484 has 1 MA's), (Start: 73 @18490 has 1 MA's), (74, 18496), (88, 18559), (94, 18601), (113, 18679), (121, 18727), (125, 18751), (130, 18769), (132, 18775),

Gene: Chah_26 Start: 18818, Stop: 19117, Start Num: 72

Candidate Starts for Chah_26:

(29, 18629), (Start: 43 @18695 has 254 MA's), (Start: 72 @18818 has 1 MA's), (Start: 73 @18824 has 1 MA's), (74, 18830), (88, 18893), (94, 18935), (102, 18986), (113, 19013), (121, 19061), (125, 19085), (130, 19103), (132, 19109),

Gene: Charles1_25 Start: 18659, Stop: 19081, Start Num: 43

Candidate Starts for Charles1_25:

(29, 18593), (Start: 43 @18659 has 254 MA's), (Start: 72 @18782 has 1 MA's), (Start: 73 @18788 has 1 MA's), (74, 18794), (88, 18857), (94, 18899), (113, 18977), (121, 19025), (125, 19049), (130, 19067), (132, 19073),

Gene: CharlieGBrown_24 Start: 18246, Stop: 18668, Start Num: 42

Candidate Starts for CharlieGBrown_24:

(Start: 42 @18246 has 66 MA's), (Start: 72 @18369 has 1 MA's), (Start: 73 @18375 has 1 MA's), (74, 18381), (88, 18444), (94, 18486), (113, 18564), (121, 18612), (125, 18636), (130, 18654), (132, 18660),

Gene: CharlottesWeb_22 Start: 17120, Stop: 17533, Start Num: 45

Candidate Starts for CharlottesWeb_22:

(Start: 37 @17099 has 1 MA's), (Start: 45 @17120 has 19 MA's), (55, 17162), (68, 17201), (Start: 73 @17246 has 1 MA's), (74, 17252), (84, 17300),

Gene: Charming_30 Start: 22736, Stop: 23170, Start Num: 53

Candidate Starts for Charming_30:

(40, 22706), (Start: 53 @22736 has 103 MA's), (71, 22820), (82, 22895), (89, 22919), (98, 22997), (102, 23018), (120, 23090), (132, 23141),

Gene: CheetO_25 Start: 18674, Stop: 19096, Start Num: 43

Candidate Starts for CheetO_25:

(29, 18608), (Start: 43 @18674 has 254 MA's), (Start: 72 @18797 has 1 MA's), (Start: 73 @18803 has 1 MA's), (74, 18809), (88, 18872), (94, 18914), (113, 18992), (121, 19040), (125, 19064), (130, 19082), (132, 19088),

Gene: Cher_24 Start: 18400, Stop: 18822, Start Num: 43

Candidate Starts for Cher_24:

(29, 18334), (Start: 43 @18400 has 254 MA's), (Start: 72 @18523 has 1 MA's), (Start: 73 @18529 has 1 MA's), (74, 18535), (88, 18598), (94, 18640), (113, 18718), (121, 18766), (125, 18790), (130, 18808), (132, 18814),

Gene: CherryCola_29 Start: 18503, Stop: 18946, Start Num: 53

Candidate Starts for CherryCola_29:

(Start: 53 @18503 has 103 MA's), (98, 18764), (132, 18920),

Gene: Chickadee_27 Start: 19601, Stop: 20032, Start Num: 53

Candidate Starts for Chickadee_27:

(20, 19433), (Start: 53 @19601 has 103 MA's), (71, 19685), (82, 19760), (101, 19880), (107, 19895), (120, 19955), (122, 19964), (131, 20003), (132, 20006),

Gene: Childish_24 Start: 18388, Stop: 18810, Start Num: 43

Candidate Starts for Childish_24:

(29, 18322), (Start: 43 @18388 has 254 MA's), (Start: 72 @18511 has 1 MA's), (Start: 73 @18517 has 1 MA's), (74, 18523), (88, 18586), (94, 18628), (113, 18706), (121, 18754), (125, 18778), (130, 18796), (132, 18802),

Gene: Chipette_26 Start: 18897, Stop: 19319, Start Num: 43

Candidate Starts for Chipette_26:

(29, 18831), (Start: 43 @18897 has 254 MA's), (Start: 72 @19020 has 1 MA's), (Start: 73 @19026 has 1 MA's), (74, 19032), (88, 19095), (94, 19137), (113, 19215), (121, 19263), (125, 19287), (130, 19305), (132, 19311),

Gene: Chorkpop_25 Start: 18399, Stop: 18821, Start Num: 43

Candidate Starts for Chorkpop_25:

(29, 18333), (Start: 43 @18399 has 254 MA's), (Start: 72 @18522 has 1 MA's), (Start: 73 @18528 has 1 MA's), (74, 18534), (88, 18597), (94, 18639), (102, 18690), (113, 18717), (121, 18765), (125, 18789), (130, 18807), (132, 18813),

Gene: ChrisnMich_22 Start: 18293, Stop: 18706, Start Num: 50

Candidate Starts for ChrisnMich_22:

(Start: 50 @18293 has 85 MA's), (Start: 72 @18407 has 1 MA's), (Start: 73 @18413 has 1 MA's), (74, 18419), (79, 18455), (90, 18494), (93, 18506), (94, 18524), (113, 18602), (124, 18671), (132, 18698),

Gene: Chuni_24 Start: 18765, Stop: 19115, Start Num: 66

Candidate Starts for Chuni_24:

(29, 18627), (Start: 43 @18693 has 254 MA's), (66, 18765), (Start: 72 @18816 has 1 MA's), (Start: 73 @18822 has 1 MA's), (74, 18828), (88, 18891), (94, 18933), (113, 19011), (121, 19059), (125, 19083), (130, 19101), (132, 19107),

Gene: Chunky_25 Start: 18687, Stop: 19109, Start Num: 43

Candidate Starts for Chunky_25:

(29, 18621), (Start: 43 @18687 has 254 MA's), (Start: 72 @18810 has 1 MA's), (Start: 73 @18816 has 1 MA's), (74, 18822), (88, 18885), (94, 18927), (113, 19005), (121, 19053), (125, 19077), (130, 19095), (132, 19101),

Gene: Chute_24 Start: 18712, Stop: 19134, Start Num: 42

Candidate Starts for Chute_24:

(Start: 42 @18712 has 66 MA's), (66, 18784), (Start: 72 @18835 has 1 MA's), (Start: 73 @18841 has 1 MA's), (74, 18847), (88, 18910), (94, 18952), (113, 19030), (121, 19078), (125, 19102), (130, 19120), (132, 19126),

Gene: ClamChowder_28 Start: 18286, Stop: 18729, Start Num: 53

Candidate Starts for ClamChowder_28:

(Start: 53 @18286 has 103 MA's), (98, 18547), (132, 18703),

Gene: Clawz_53 Start: 29439, Stop: 29873, Start Num: 41

Candidate Starts for Clawz_53:

(Start: 41 @29439 has 5 MA's), (65, 29511), (69, 29526), (Start: 72 @29565 has 1 MA's), (86, 29637), (88, 29643), (94, 29685), (96, 29709), (101, 29733), (113, 29763), (116, 29778),

Gene: CloverMinnie_24 Start: 18544, Stop: 18954, Start Num: 45
Candidate Starts for CloverMinnie_24:
(Start: 45 @18544 has 19 MA's), (78, 18706), (81, 18718), (94, 18784), (96, 18808), (107, 18847),
(113, 18862), (125, 18934),

Gene: Clown_30 Start: 20227, Stop: 20670, Start Num: 53
Candidate Starts for Clown_30:
(27, 20125), (29, 20134), (Start: 53 @20227 has 103 MA's), (70, 20299), (132, 20644),

Gene: Cobra_25 Start: 18680, Stop: 19102, Start Num: 43
Candidate Starts for Cobra_25:
(29, 18614), (Start: 43 @18680 has 254 MA's), (Start: 72 @18803 has 1 MA's), (Start: 73 @18809 has
1 MA's), (74, 18815), (88, 18878), (94, 18920), (113, 18998), (121, 19046), (125, 19070), (130, 19088),
(132, 19094),

Gene: Coffee_27 Start: 20947, Stop: 21375, Start Num: 43
Candidate Starts for Coffee_27:
(35, 20920), (Start: 43 @20947 has 254 MA's), (52, 20962), (Start: 73 @21079 has 1 MA's), (74,
21085), (77, 21112), (84, 21133), (88, 21151), (113, 21271), (115, 21277), (124, 21340), (132, 21367),

Gene: Colbert_25 Start: 18677, Stop: 19099, Start Num: 43
Candidate Starts for Colbert_25:
(29, 18611), (Start: 43 @18677 has 254 MA's), (Start: 72 @18800 has 1 MA's), (Start: 73 @18806 has
1 MA's), (74, 18812), (88, 18875), (94, 18917), (113, 18995), (121, 19043), (125, 19067), (130, 19085),
(132, 19091),

Gene: ColdSoup_54 Start: 29535, Stop: 29960, Start Num: 41
Candidate Starts for ColdSoup_54:
(Start: 41 @29535 has 5 MA's), (86, 29733), (96, 29805), (113, 29859), (116, 29874),

Gene: Coldpizza_25 Start: 21451, Stop: 21861, Start Num: 45
Candidate Starts for Coldpizza_25:
(Start: 45 @21451 has 19 MA's), (58, 21505), (60, 21508), (68, 21532), (74, 21583), (90, 21661),

Gene: Coletti_25 Start: 18712, Stop: 19134, Start Num: 42
Candidate Starts for Coletti_25:
(Start: 42 @18712 has 66 MA's), (66, 18784), (Start: 72 @18835 has 1 MA's), (Start: 73 @18841 has 1
MA's), (74, 18847), (88, 18910), (94, 18952), (113, 19030), (121, 19078), (125, 19102), (130, 19120),
(132, 19126),

Gene: Cooper_23 Start: 18410, Stop: 18823, Start Num: 50
Candidate Starts for Cooper_23:
(Start: 50 @18410 has 85 MA's), (Start: 73 @18530 has 1 MA's), (74, 18536), (79, 18572), (88, 18599),
(93, 18623), (94, 18641), (113, 18719), (124, 18788), (132, 18815),

Gene: Cornbread_24 Start: 18393, Stop: 18815, Start Num: 42
Candidate Starts for Cornbread_24:
(Start: 42 @18393 has 66 MA's), (Start: 72 @18516 has 1 MA's), (Start: 73 @18522 has 1 MA's), (74,
18528), (88, 18591), (94, 18633), (113, 18711), (121, 18759), (125, 18783), (130, 18801), (132,
18807),

Gene: Cornobble_24 Start: 18235, Stop: 18657, Start Num: 43
Candidate Starts for Cornobble_24:

(29, 18169), (Start: 43 @18235 has 254 MA's), (Start: 72 @18358 has 1 MA's), (Start: 73 @18364 has 1 MA's), (74, 18370), (88, 18433), (94, 18475), (113, 18553), (121, 18601), (125, 18625), (130, 18643), (132, 18649),

Gene: Cosmolli16_24 Start: 18394, Stop: 18816, Start Num: 43

Candidate Starts for Cosmolli16_24:

(29, 18328), (Start: 43 @18394 has 254 MA's), (Start: 72 @18517 has 1 MA's), (Start: 73 @18523 has 1 MA's), (74, 18529), (88, 18592), (94, 18634), (102, 18685), (113, 18712), (121, 18760), (125, 18784), (130, 18802), (132, 18808),

Gene: CoveyB_28 Start: 18086, Stop: 18529, Start Num: 53

Candidate Starts for CoveyB_28:

(Start: 53 @18086 has 103 MA's), (98, 18347), (132, 18503),

Gene: Craff_25 Start: 18681, Stop: 19103, Start Num: 43

Candidate Starts for Craff_25:

(29, 18615), (Start: 43 @18681 has 254 MA's), (Start: 72 @18804 has 1 MA's), (Start: 73 @18810 has 1 MA's), (74, 18816), (88, 18879), (94, 18921), (113, 18999), (121, 19047), (125, 19071), (130, 19089), (132, 19095),

Gene: Crownjwl_25 Start: 18448, Stop: 18870, Start Num: 43

Candidate Starts for Crownjwl_25:

(29, 18382), (Start: 43 @18448 has 254 MA's), (Start: 72 @18571 has 1 MA's), (Start: 73 @18577 has 1 MA's), (74, 18583), (88, 18646), (94, 18688), (113, 18766), (121, 18814), (125, 18838), (130, 18856), (132, 18862),

Gene: D12_19 Start: 18187, Stop: 18597, Start Num: 50

Candidate Starts for D12_19:

(Start: 50 @18187 has 85 MA's), (68, 18262), (Start: 73 @18307 has 1 MA's), (74, 18313), (81, 18355), (88, 18379), (92, 18400), (112, 18502), (121, 18547),

Gene: DaddyDaniels_25 Start: 18373, Stop: 18795, Start Num: 42

Candidate Starts for DaddyDaniels_25:

(Start: 42 @18373 has 66 MA's), (Start: 72 @18496 has 1 MA's), (Start: 73 @18502 has 1 MA's), (74, 18508), (88, 18571), (94, 18613), (113, 18691), (121, 18739), (125, 18763), (130, 18781), (132, 18787),

Gene: Daffy_25 Start: 18400, Stop: 18822, Start Num: 43

Candidate Starts for Daffy_25:

(29, 18334), (Start: 43 @18400 has 254 MA's), (Start: 72 @18523 has 1 MA's), (Start: 73 @18529 has 1 MA's), (74, 18535), (88, 18598), (94, 18640), (113, 18718), (121, 18766), (125, 18790), (130, 18808), (132, 18814),

Gene: Daka_25 Start: 18677, Stop: 19099, Start Num: 43

Candidate Starts for Daka_25:

(29, 18611), (Start: 43 @18677 has 254 MA's), (Start: 72 @18800 has 1 MA's), (Start: 73 @18806 has 1 MA's), (74, 18812), (88, 18875), (94, 18917), (113, 18995), (121, 19043), (125, 19067), (130, 19085), (132, 19091),

Gene: Danyall_28 Start: 18086, Stop: 18529, Start Num: 53

Candidate Starts for Danyall_28:

(Start: 53 @18086 has 103 MA's), (98, 18347), (132, 18503),

Gene: Dati_25 Start: 18390, Stop: 18812, Start Num: 42

Candidate Starts for Dati_25:

(Start: 42 @18390 has 66 MA's), (Start: 72 @18513 has 1 MA's), (Start: 73 @18519 has 1 MA's), (74, 18525), (88, 18588), (94, 18630), (113, 18708), (121, 18756), (125, 18780), (130, 18798), (132, 18804),

Gene: DelRivs_24 Start: 18389, Stop: 18811, Start Num: 42

Candidate Starts for DelRivs_24:

(Start: 42 @18389 has 66 MA's), (Start: 73 @18518 has 1 MA's), (74, 18524), (88, 18587), (94, 18629), (113, 18707), (121, 18755), (125, 18779), (130, 18797), (132, 18803),

Gene: Delrey21_29 Start: 23097, Stop: 23528, Start Num: 53

Candidate Starts for Delrey21_29:

(Start: 41 @23070 has 5 MA's), (Start: 53 @23097 has 103 MA's), (71, 23181), (74, 23211), (75, 23226), (82, 23256), (88, 23277), (98, 23358), (99, 23364), (107, 23391), (119, 23436), (120, 23451), (131, 23499), (132, 23502),

Gene: Derg_25 Start: 21689, Stop: 22123, Start Num: 49

Candidate Starts for Derg_25:

(Start: 49 @21689 has 27 MA's), (67, 21743), (71, 21773), (82, 21848), (98, 21950), (102, 21971), (120, 22043), (132, 22094),

Gene: Derpp_24 Start: 18236, Stop: 18658, Start Num: 42

Candidate Starts for Derpp_24:

(Start: 42 @18236 has 66 MA's), (Start: 72 @18359 has 1 MA's), (Start: 73 @18365 has 1 MA's), (74, 18371), (88, 18434), (94, 18476), (113, 18554), (121, 18602), (125, 18626), (130, 18644), (132, 18650),

Gene: Dxdert_28 Start: 20032, Stop: 20463, Start Num: 53

Candidate Starts for Dxdert_28:

(Start: 53 @20032 has 103 MA's), (71, 20116), (82, 20191), (88, 20212), (101, 20311), (107, 20326), (120, 20386), (131, 20434), (132, 20437), (134, 20446),

Gene: Dice_24 Start: 18377, Stop: 18799, Start Num: 43

Candidate Starts for Dice_24:

(29, 18311), (Start: 43 @18377 has 254 MA's), (Start: 72 @18500 has 1 MA's), (Start: 73 @18506 has 1 MA's), (74, 18512), (88, 18575), (94, 18617), (113, 18695), (121, 18743), (125, 18767), (130, 18785), (132, 18791),

Gene: DigitDog_25 Start: 18981, Stop: 19397, Start Num: 49

Candidate Starts for DigitDog_25:

(Start: 49 @18981 has 27 MA's), (88, 19173), (94, 19215), (102, 19266), (133, 19392),

Gene: Dingo_25 Start: 18661, Stop: 19083, Start Num: 43

Candidate Starts for Dingo_25:

(29, 18595), (Start: 43 @18661 has 254 MA's), (Start: 72 @18784 has 1 MA's), (Start: 73 @18790 has 1 MA's), (74, 18796), (88, 18859), (94, 18901), (113, 18979), (121, 19027), (125, 19051), (130, 19069), (132, 19075),

Gene: Dione_24 Start: 18378, Stop: 18800, Start Num: 43

Candidate Starts for Dione_24:

(29, 18312), (Start: 43 @18378 has 254 MA's), (Start: 72 @18501 has 1 MA's), (Start: 73 @18507 has 1 MA's), (74, 18513), (88, 18576), (94, 18618), (113, 18696), (121, 18744), (125, 18768), (130, 18786),

(132, 18792),

Gene: DirtJuice_25 Start: 18663, Stop: 19085, Start Num: 43

Candidate Starts for DirtJuice_25:

(29, 18597), (Start: 43 @18663 has 254 MA's), (Start: 72 @18786 has 1 MA's), (Start: 73 @18792 has 1 MA's), (74, 18798), (88, 18861), (94, 18903), (113, 18981), (121, 19029), (125, 19053), (130, 19071), (132, 19077),

Gene: DoctorFroggo_29 Start: 23097, Stop: 23528, Start Num: 53

Candidate Starts for DoctorFroggo_29:

(Start: 41 @23070 has 5 MA's), (Start: 53 @23097 has 103 MA's), (71, 23181), (74, 23211), (75, 23226), (82, 23256), (88, 23277), (98, 23358), (99, 23364), (107, 23391), (119, 23436), (120, 23451), (131, 23499), (132, 23502),

Gene: Doddsville_25 Start: 18390, Stop: 18812, Start Num: 42

Candidate Starts for Doddsville_25:

(Start: 42 @18390 has 66 MA's), (Start: 72 @18513 has 1 MA's), (Start: 73 @18519 has 1 MA's), (74, 18525), (88, 18588), (94, 18630), (113, 18708), (121, 18756), (125, 18780), (130, 18798), (132, 18804),

Gene: DoesntMatter_25 Start: 18659, Stop: 19081, Start Num: 43

Candidate Starts for DoesntMatter_25:

(29, 18593), (Start: 43 @18659 has 254 MA's), (Start: 72 @18782 has 1 MA's), (Start: 73 @18788 has 1 MA's), (74, 18794), (88, 18857), (94, 18899), (102, 18950), (113, 18977), (121, 19025), (125, 19049), (130, 19067), (132, 19073),

Gene: DolOn_26 Start: 18910, Stop: 19332, Start Num: 43

Candidate Starts for DolOn_26:

(29, 18844), (Start: 43 @18910 has 254 MA's), (Start: 72 @19033 has 1 MA's), (Start: 73 @19039 has 1 MA's), (74, 19045), (88, 19108), (94, 19150), (113, 19228), (121, 19276), (125, 19300), (130, 19318), (132, 19324),

Gene: DonSanchon_24 Start: 18376, Stop: 18798, Start Num: 43

Candidate Starts for DonSanchon_24:

(29, 18310), (Start: 43 @18376 has 254 MA's), (Start: 72 @18499 has 1 MA's), (Start: 73 @18505 has 1 MA's), (74, 18511), (88, 18574), (94, 18616), (113, 18694), (121, 18742), (125, 18766), (130, 18784), (132, 18790),

Gene: DonTron_53 Start: 29575, Stop: 30000, Start Num: 41

Candidate Starts for DonTron_53:

(Start: 41 @29575 has 5 MA's), (86, 29773), (96, 29845), (113, 29899), (116, 29914),

Gene: DonaldDuck_32 Start: 21950, Stop: 22354, Start Num: 50

Candidate Starts for DonaldDuck_32:

(30, 21893), (Start: 50 @21950 has 85 MA's), (56, 21986), (92, 22160), (94, 22181), (103, 22226), (106, 22235), (131, 22340), (134, 22349),

Gene: Donny_25 Start: 19394, Stop: 19810, Start Num: 49

Candidate Starts for Donny_25:

(Start: 49 @19394 has 27 MA's), (63, 19454), (74, 19523), (94, 19628), (97, 19658), (133, 19805),

Gene: DuchessDung_23 Start: 17527, Stop: 17949, Start Num: 42

Candidate Starts for DuchessDung_23:

(Start: 42 @17527 has 66 MA's), (Start: 72 @17650 has 1 MA's), (Start: 73 @17656 has 1 MA's), (74, 17662), (88, 17725), (94, 17767), (113, 17845), (121, 17893), (125, 17917), (130, 17935), (132, 17941),

Gene: Duggie_24 Start: 18392, Stop: 18814, Start Num: 42

Candidate Starts for Duggie_24:

(Start: 42 @18392 has 66 MA's), (Start: 72 @18515 has 1 MA's), (Start: 73 @18521 has 1 MA's), (74, 18527), (88, 18590), (94, 18632), (113, 18710), (121, 18758), (125, 18782), (130, 18800), (132, 18806),

Gene: Durga_25 Start: 18689, Stop: 19111, Start Num: 42

Candidate Starts for Durga_25:

(Start: 42 @18689 has 66 MA's), (Start: 72 @18812 has 1 MA's), (Start: 73 @18818 has 1 MA's), (74, 18824), (88, 18887), (94, 18929), (113, 19007), (121, 19055), (125, 19079), (130, 19097), (132, 19103),

Gene: EMoore_26 Start: 21587, Stop: 22018, Start Num: 53

Candidate Starts for EMoore_26:

(33, 21536), (Start: 41 @21560 has 5 MA's), (Start: 43 @21563 has 254 MA's), (Start: 53 @21587 has 103 MA's), (71, 21671), (75, 21716), (98, 21848), (119, 21926), (122, 21950), (131, 21989), (132, 21992),

Gene: Eaglehorse_27 Start: 20855, Stop: 21283, Start Num: 43

Candidate Starts for Eaglehorse_27:

(35, 20828), (Start: 43 @20855 has 254 MA's), (52, 20870), (Start: 73 @20987 has 1 MA's), (74, 20993), (77, 21020), (84, 21041), (88, 21059), (113, 21179), (115, 21185), (124, 21248), (132, 21275),

Gene: EastView9101_24 Start: 19041, Stop: 19457, Start Num: 49

Candidate Starts for EastView9101_24:

(Start: 49 @19041 has 27 MA's), (74, 19170), (88, 19233), (133, 19452),

Gene: EdmundFerry_26 Start: 19630, Stop: 20061, Start Num: 53

Candidate Starts for EdmundFerry_26:

(20, 19462), (Start: 53 @19630 has 103 MA's), (71, 19714), (82, 19789), (101, 19909), (107, 19924), (120, 19984), (122, 19993), (131, 20032), (132, 20035),

Gene: Egi03_26 Start: 17805, Stop: 18248, Start Num: 53

Candidate Starts for Egi03_26:

(14, 17589), (18, 17631), (Start: 53 @17805 has 103 MA's), (98, 18066), (132, 18222),

Gene: ElvisPhasley_25 Start: 18708, Stop: 19130, Start Num: 42

Candidate Starts for ElvisPhasley_25:

(Start: 42 @18708 has 66 MA's), (66, 18780), (Start: 72 @18831 has 1 MA's), (Start: 73 @18837 has 1 MA's), (74, 18843), (88, 18906), (94, 18948), (113, 19026), (121, 19074), (125, 19098), (130, 19116), (132, 19122),

Gene: Emiris_25 Start: 18670, Stop: 19092, Start Num: 43

Candidate Starts for Emiris_25:

(29, 18604), (Start: 43 @18670 has 254 MA's), (Start: 72 @18793 has 1 MA's), (Start: 73 @18799 has 1 MA's), (74, 18805), (88, 18868), (94, 18910), (113, 18988), (121, 19036), (125, 19060), (130, 19078), (132, 19084),

Gene: EmpTee_25 Start: 18676, Stop: 19098, Start Num: 43

Candidate Starts for EmpTee_25:

(29, 18610), (Start: 43 @18676 has 254 MA's), (Start: 72 @18799 has 1 MA's), (Start: 73 @18805 has 1 MA's), (74, 18811), (88, 18874), (94, 18916), (113, 18994), (121, 19042), (125, 19066), (130, 19084), (132, 19090),

Gene: Epah_22 Start: 18304, Stop: 18717, Start Num: 50

Candidate Starts for Epah_22:

(Start: 50 @18304 has 85 MA's), (Start: 72 @18418 has 1 MA's), (Start: 73 @18424 has 1 MA's), (74, 18430), (79, 18466), (88, 18493), (90, 18505), (93, 18517), (94, 18535), (113, 18613), (124, 18682), (132, 18709),

Gene: Eremos_25 Start: 18676, Stop: 19098, Start Num: 43

Candidate Starts for Eremos_25:

(29, 18610), (Start: 43 @18676 has 254 MA's), (Start: 72 @18799 has 1 MA's), (Start: 73 @18805 has 1 MA's), (74, 18811), (88, 18874), (94, 18916), (113, 18994), (121, 19042), (125, 19066), (130, 19084), (132, 19090),

Gene: Etaye_25 Start: 18662, Stop: 19084, Start Num: 42

Candidate Starts for Etaye_25:

(Start: 42 @18662 has 66 MA's), (Start: 72 @18785 has 1 MA's), (Start: 73 @18791 has 1 MA's), (74, 18797), (88, 18860), (94, 18902), (113, 18980), (121, 19028), (125, 19052), (130, 19070), (132, 19076),

Gene: Eugenia_25 Start: 18689, Stop: 19111, Start Num: 43

Candidate Starts for Eugenia_25:

(29, 18623), (Start: 43 @18689 has 254 MA's), (Start: 72 @18812 has 1 MA's), (Start: 73 @18818 has 1 MA's), (74, 18824), (88, 18887), (94, 18929), (113, 19007), (121, 19055), (125, 19079), (130, 19097), (132, 19103),

Gene: Evaa_23 Start: 18465, Stop: 18881, Start Num: 45

Candidate Starts for Evaa_23:

(Start: 45 @18465 has 19 MA's), (68, 18549), (74, 18600), (82, 18645), (96, 18732), (101, 18756),

Gene: Evamon_26 Start: 17572, Stop: 18015, Start Num: 53

Candidate Starts for Evamon_26:

(Start: 53 @17572 has 103 MA's), (98, 17833), (132, 17989),

Gene: EverythinBagel_32 Start: 22338, Stop: 22736, Start Num: 50

Candidate Starts for EverythinBagel_32:

(32, 22284), (Start: 50 @22338 has 85 MA's), (56, 22374), (92, 22548), (94, 22569), (103, 22614), (106, 22623),

Gene: Fanaw_22 Start: 18998, Stop: 19411, Start Num: 50

Candidate Starts for Fanaw_22:

(Start: 50 @18998 has 85 MA's), (Start: 72 @19112 has 1 MA's), (Start: 73 @19118 has 1 MA's), (74, 19124), (79, 19160), (90, 19199), (93, 19211), (94, 19229), (113, 19307), (132, 19403),

Gene: Fang_25 Start: 18690, Stop: 19112, Start Num: 43

Candidate Starts for Fang_25:

(29, 18624), (Start: 43 @18690 has 254 MA's), (Start: 72 @18813 has 1 MA's), (Start: 73 @18819 has 1 MA's), (74, 18825), (88, 18888), (94, 18930), (113, 19008), (121, 19056), (125, 19080), (130, 19098), (132, 19104),

Gene: Faze9_27 Start: 20951, Stop: 21379, Start Num: 43

Candidate Starts for Faze9_27:

(35, 20924), (Start: 43 @20951 has 254 MA's), (52, 20966), (Start: 73 @21083 has 1 MA's), (74, 21089), (77, 21116), (84, 21137), (88, 21155), (113, 21275), (115, 21281), (124, 21344), (132, 21371),

Gene: FelixTres_24 Start: 18607, Stop: 19017, Start Num: 45

Candidate Starts for FelixTres_24:

(Start: 45 @18607 has 19 MA's), (78, 18769), (81, 18781), (94, 18847), (96, 18871), (107, 18910), (113, 18925),

Gene: Fireball_27 Start: 17704, Stop: 18147, Start Num: 53

Candidate Starts for Fireball_27:

(Start: 53 @17704 has 103 MA's), (98, 17965), (132, 18121),

Gene: Fitzgerald_28 Start: 23319, Stop: 23753, Start Num: 53

Candidate Starts for Fitzgerald_28:

(40, 23289), (Start: 53 @23319 has 103 MA's), (71, 23403), (82, 23478), (98, 23580), (102, 23601), (120, 23673), (132, 23724),

Gene: Fizzles_33 Start: 21660, Stop: 22067, Start Num: 50

Candidate Starts for Fizzles_33:

(32, 21606), (Start: 50 @21660 has 85 MA's), (54, 21672), (56, 21696), (94, 21891), (103, 21936), (106, 21945), (118, 21993), (131, 22053), (134, 22062),

Gene: Flake_26 Start: 18712, Stop: 19134, Start Num: 42

Candidate Starts for Flake_26:

(Start: 42 @18712 has 66 MA's), (66, 18784), (Start: 72 @18835 has 1 MA's), (Start: 73 @18841 has 1 MA's), (74, 18847), (88, 18910), (94, 18952), (113, 19030), (121, 19078), (125, 19102), (130, 19120), (132, 19126),

Gene: Flatwoods_30 Start: 22050, Stop: 22484, Start Num: 49

Candidate Starts for Flatwoods_30:

(Start: 49 @22050 has 27 MA's), (67, 22104), (71, 22134), (82, 22209), (98, 22311), (102, 22332), (120, 22404), (132, 22455),

Gene: FleetyMac_24 Start: 18675, Stop: 19097, Start Num: 42

Candidate Starts for FleetyMac_24:

(Start: 42 @18675 has 66 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: FluffyNinja_25 Start: 18682, Stop: 19104, Start Num: 43

Candidate Starts for FluffyNinja_25:

(29, 18616), (Start: 43 @18682 has 254 MA's), (Start: 72 @18805 has 1 MA's), (Start: 73 @18811 has 1 MA's), (74, 18817), (88, 18880), (94, 18922), (113, 19000), (121, 19048), (125, 19072), (130, 19090), (132, 19096),

Gene: ForDig_21 Start: 17846, Stop: 18259, Start Num: 42

Candidate Starts for ForDig_21:

(Start: 42 @17846 has 66 MA's), (79, 18014), (88, 18041), (94, 18083), (112, 18158),

Gene: Fortunato_23 Start: 19330, Stop: 19743, Start Num: 50

Candidate Starts for Fortunato_23:

(Start: 50 @19330 has 85 MA's), (Start: 72 @19444 has 1 MA's), (Start: 73 @19450 has 1 MA's), (74, 19456), (79, 19492), (90, 19531), (93, 19543), (94, 19561), (113, 19639), (116, 19654), (124, 19708), (125, 19711), (132, 19735),

Gene: Fosterous_28 Start: 23152, Stop: 23586, Start Num: 53

Candidate Starts for Fosterous_28:

(40, 23122), (Start: 53 @23152 has 103 MA's), (71, 23236), (82, 23311), (89, 23335), (98, 23413), (120, 23506), (132, 23557),

Gene: Fozzie_24 Start: 18685, Stop: 19107, Start Num: 43

Candidate Starts for Fozzie_24:

(29, 18619), (Start: 43 @18685 has 254 MA's), (Start: 72 @18808 has 1 MA's), (Start: 73 @18814 has 1 MA's), (74, 18820), (88, 18883), (94, 18925), (113, 19003), (121, 19051), (125, 19075), (130, 19093), (132, 19099),

Gene: FrankDeliGuy_30 Start: 21910, Stop: 22314, Start Num: 50

Candidate Starts for FrankDeliGuy_30:

(Start: 50 @21910 has 85 MA's), (54, 21922), (92, 22120), (94, 22141), (103, 22186), (106, 22195), (131, 22300), (134, 22309),

Gene: Frankicide_25 Start: 18676, Stop: 19098, Start Num: 43

Candidate Starts for Frankicide_25:

(29, 18610), (Start: 43 @18676 has 254 MA's), (Start: 72 @18799 has 1 MA's), (Start: 73 @18805 has 1 MA's), (74, 18811), (88, 18874), (94, 18916), (113, 18994), (121, 19042), (125, 19066), (130, 19084), (132, 19090),

Gene: Fransoyer_35 Start: 21775, Stop: 22191, Start Num: 50

Candidate Starts for Fransoyer_35:

(22, 21652), (36, 21742), (Start: 50 @21775 has 85 MA's), (Start: 72 @21886 has 1 MA's), (108, 22072), (110, 22075), (134, 22186),

Gene: Frederick_23 Start: 19339, Stop: 19752, Start Num: 50

Candidate Starts for Frederick_23:

(Start: 50 @19339 has 85 MA's), (Start: 72 @19453 has 1 MA's), (Start: 73 @19459 has 1 MA's), (74, 19465), (79, 19501), (90, 19540), (93, 19552), (94, 19570), (113, 19648), (116, 19663), (124, 19717), (125, 19720), (132, 19744),

Gene: Fregley_33 Start: 21097, Stop: 21492, Start Num: 50

Candidate Starts for Fregley_33:

(Start: 50 @21097 has 85 MA's), (62, 21148), (79, 21256), (94, 21331), (111, 21397), (131, 21484),

Gene: FremontTroll_25 Start: 18373, Stop: 18795, Start Num: 43

Candidate Starts for FremontTroll_25:

(29, 18307), (Start: 43 @18373 has 254 MA's), (Start: 72 @18496 has 1 MA's), (Start: 73 @18502 has 1 MA's), (74, 18508), (88, 18571), (94, 18613), (113, 18691), (121, 18739), (125, 18763), (130, 18781), (132, 18787),

Gene: FrenchFry_27 Start: 20954, Stop: 21382, Start Num: 43

Candidate Starts for FrenchFry_27:

(35, 20927), (Start: 43 @20954 has 254 MA's), (52, 20969), (Start: 73 @21086 has 1 MA's), (74, 21092), (77, 21119), (84, 21140), (88, 21158), (113, 21278), (115, 21284), (124, 21347), (132, 21374),

Gene: Fresco_22 Start: 17225, Stop: 17635, Start Num: 45

Candidate Starts for Fresco_22:

(Start: 45 @17225 has 19 MA's), (68, 17306), (Start: 72 @17345 has 1 MA's), (74, 17357), (81, 17399), (84, 17405), (88, 17423), (101, 17513),

Gene: Freya_24 Start: 18371, Stop: 18793, Start Num: 43

Candidate Starts for Freya_24:

(29, 18305), (Start: 43 @18371 has 254 MA's), (Start: 72 @18494 has 1 MA's), (Start: 73 @18500 has 1 MA's), (74, 18506), (88, 18569), (94, 18611), (113, 18689), (121, 18737), (125, 18761), (130, 18779), (132, 18785),

Gene: FriarPreacher_25 Start: 18696, Stop: 19118, Start Num: 43

Candidate Starts for FriarPreacher_25:

(29, 18630), (Start: 43 @18696 has 254 MA's), (Start: 72 @18819 has 1 MA's), (Start: 73 @18825 has 1 MA's), (74, 18831), (88, 18894), (94, 18936), (113, 19014), (121, 19062), (125, 19086), (130, 19104), (132, 19110),

Gene: Fringe_25 Start: 18660, Stop: 19082, Start Num: 43

Candidate Starts for Fringe_25:

(29, 18594), (Start: 43 @18660 has 254 MA's), (Start: 72 @18783 has 1 MA's), (Start: 73 @18789 has 1 MA's), (74, 18795), (88, 18858), (94, 18900), (113, 18978), (121, 19026), (125, 19050), (130, 19068), (132, 19074),

Gene: FuegoCuervo_32 Start: 21703, Stop: 22137, Start Num: 53

Candidate Starts for FuegoCuervo_32:

(40, 21664), (Start: 53 @21703 has 103 MA's), (71, 21787), (82, 21862), (98, 21964), (102, 21985), (120, 22057), (132, 22108),

Gene: FugateOSU_24 Start: 18382, Stop: 18804, Start Num: 43

Candidate Starts for FugateOSU_24:

(29, 18316), (Start: 43 @18382 has 254 MA's), (Start: 72 @18505 has 1 MA's), (Start: 73 @18511 has 1 MA's), (74, 18517), (88, 18580), (94, 18622), (102, 18673), (113, 18700), (121, 18748), (125, 18772), (130, 18790), (132, 18796),

Gene: Fugax_28 Start: 18286, Stop: 18729, Start Num: 53

Candidate Starts for Fugax_28:

(Start: 53 @18286 has 103 MA's), (98, 18547), (132, 18703),

Gene: Funsized_28 Start: 21759, Stop: 22175, Start Num: 49

Candidate Starts for Funsized_28:

(Start: 49 @21759 has 27 MA's), (Start: 73 @21882 has 1 MA's), (74, 21888), (79, 21924), (94, 21993), (102, 22044), (113, 22071), (116, 22086), (132, 22167),

Gene: GTE6_27 Start: 20119, Stop: 20550, Start Num: 53

Candidate Starts for GTE6_27:

(20, 19951), (Start: 53 @20119 has 103 MA's), (71, 20203), (82, 20278), (101, 20398), (107, 20413), (122, 20482), (131, 20521), (132, 20524),

Gene: Gaea_29 Start: 21701, Stop: 22135, Start Num: 49

Candidate Starts for Gaea_29:

(Start: 49 @21701 has 27 MA's), (67, 21755), (71, 21785), (82, 21860), (98, 21962), (102, 21983), (120, 22055), (132, 22106),

Gene: Galadriel_30 Start: 23641, Stop: 24075, Start Num: 53

Candidate Starts for Galadriel_30:

(40, 23611), (Start: 53 @23641 has 103 MA's), (71, 23725), (82, 23800), (89, 23824), (98, 23902), (120, 23995), (132, 24046),

Gene: Gareth_24 Start: 18379, Stop: 18801, Start Num: 43

Candidate Starts for Gareth_24:

(29, 18313), (Start: 43 @18379 has 254 MA's), (Start: 72 @18502 has 1 MA's), (Start: 73 @18508 has 1 MA's), (74, 18514), (88, 18577), (94, 18619), (113, 18697), (121, 18745), (125, 18769), (130, 18787), (132, 18793),

Gene: Gazebo_32 Start: 22390, Stop: 22803, Start Num: 50

Candidate Starts for Gazebo_32:

(30, 22333), (Start: 50 @22390 has 85 MA's), (69, 22462), (79, 22549), (100, 22666), (106, 22681),

Gene: GeneCoco_25 Start: 18681, Stop: 19103, Start Num: 42

Candidate Starts for GeneCoco_25:

(Start: 42 @18681 has 66 MA's), (Start: 72 @18804 has 1 MA's), (Start: 73 @18810 has 1 MA's), (74, 18816), (88, 18879), (94, 18921), (113, 18999), (121, 19047), (125, 19071), (130, 19089), (132, 19095),

Gene: Geodirt_27 Start: 22624, Stop: 23058, Start Num: 53

Candidate Starts for Geodirt_27:

(40, 22594), (Start: 53 @22624 has 103 MA's), (71, 22708), (82, 22783), (89, 22807), (98, 22885), (120, 22978), (132, 23029),

Gene: Gezellig_26 Start: 17704, Stop: 18147, Start Num: 53

Candidate Starts for Gezellig_26:

(Start: 53 @17704 has 103 MA's), (98, 17965), (132, 18121),

Gene: GinPorsche_22 Start: 18304, Stop: 18717, Start Num: 50

Candidate Starts for GinPorsche_22:

(Start: 50 @18304 has 85 MA's), (Start: 72 @18418 has 1 MA's), (Start: 73 @18424 has 1 MA's), (74, 18430), (79, 18466), (88, 18493), (90, 18505), (93, 18517), (94, 18535), (113, 18613), (124, 18682), (132, 18709),

Gene: Giraffe_25 Start: 18384, Stop: 18806, Start Num: 43

Candidate Starts for Giraffe_25:

(29, 18318), (Start: 43 @18384 has 254 MA's), (Start: 72 @18507 has 1 MA's), (Start: 73 @18513 has 1 MA's), (74, 18519), (88, 18582), (94, 18624), (102, 18675), (113, 18702), (121, 18750), (125, 18774), (130, 18792), (132, 18798),

Gene: Glass_27 Start: 20954, Stop: 21382, Start Num: 43

Candidate Starts for Glass_27:

(35, 20927), (Start: 43 @20954 has 254 MA's), (52, 20969), (Start: 73 @21086 has 1 MA's), (74, 21092), (77, 21119), (84, 21140), (88, 21158), (113, 21278), (115, 21284), (124, 21347), (132, 21374),

Gene: GodPhather_20 Start: 18473, Stop: 18883, Start Num: 50

Candidate Starts for GodPhather_20:

(Start: 50 @18473 has 85 MA's), (68, 18548), (Start: 73 @18593 has 1 MA's), (74, 18599), (81, 18641), (88, 18665), (92, 18686), (112, 18788), (121, 18833),

Gene: Godines_27 Start: 20847, Stop: 21275, Start Num: 43

Candidate Starts for Godines_27:

(35, 20820), (Start: 43 @20847 has 254 MA's), (Start: 73 @20979 has 1 MA's), (74, 20985), (77, 21012), (84, 21033), (88, 21051), (113, 21171), (115, 21177), (124, 21240), (132, 21267),

Gene: Gophee_25 Start: 18662, Stop: 19084, Start Num: 43

Candidate Starts for Gophee_25:

(29, 18596), (Start: 43 @18662 has 254 MA's), (Start: 72 @18785 has 1 MA's), (Start: 73 @18791 has 1 MA's), (74, 18797), (88, 18860), (94, 18902), (113, 18980), (121, 19028), (125, 19052), (130, 19070), (132, 19076),

Gene: Grand2040_24 Start: 18399, Stop: 18821, Start Num: 43

Candidate Starts for Grand2040_24:

(29, 18333), (Start: 43 @18399 has 254 MA's), (Start: 72 @18522 has 1 MA's), (Start: 73 @18528 has 1 MA's), (74, 18534), (88, 18597), (94, 18639), (102, 18690), (113, 18717), (121, 18765), (125, 18789), (130, 18807), (132, 18813),

Gene: Grassboy_34 Start: 22564, Stop: 22977, Start Num: 50

Candidate Starts for Grassboy_34:

(30, 22507), (Start: 50 @22564 has 85 MA's), (79, 22723), (100, 22840), (106, 22855),

Gene: GreenChile_25 Start: 18676, Stop: 19098, Start Num: 43

Candidate Starts for GreenChile_25:

(29, 18610), (Start: 43 @18676 has 254 MA's), (Start: 72 @18799 has 1 MA's), (Start: 73 @18805 has 1 MA's), (74, 18811), (88, 18874), (94, 18916), (113, 18994), (121, 19042), (125, 19066), (130, 19084), (132, 19090),

Gene: Grumio_53 Start: 29013, Stop: 29438, Start Num: 41

Candidate Starts for Grumio_53:

(Start: 41 @29013 has 5 MA's), (86, 29211), (96, 29283), (113, 29337), (116, 29352),

Gene: Gustavo_29 Start: 21853, Stop: 22287, Start Num: 53

Candidate Starts for Gustavo_29:

(Start: 50 @21844 has 85 MA's), (Start: 53 @21853 has 103 MA's), (71, 21937), (82, 22012), (98, 22114), (102, 22135), (119, 22192), (120, 22207), (132, 22258),

Gene: Gwennie1_25 Start: 18721, Stop: 19143, Start Num: 42

Candidate Starts for Gwennie1_25:

(Start: 42 @18721 has 66 MA's), (66, 18793), (Start: 72 @18844 has 1 MA's), (Start: 73 @18850 has 1 MA's), (74, 18856), (88, 18919), (94, 18961), (113, 19039), (121, 19087), (125, 19111), (130, 19129), (132, 19135),

Gene: Gwilliam_25 Start: 18672, Stop: 19094, Start Num: 43

Candidate Starts for Gwilliam_25:

(29, 18606), (Start: 43 @18672 has 254 MA's), (Start: 72 @18795 has 1 MA's), (Start: 73 @18801 has 1 MA's), (74, 18807), (88, 18870), (94, 18912), (113, 18990), (121, 19038), (125, 19062), (130, 19080), (132, 19086),

Gene: Gyarad_0025 Start: 18674, Stop: 19096, Start Num: 43

Candidate Starts for Gyarad_0025:

(29, 18608), (Start: 43 @18674 has 254 MA's), (Start: 72 @18797 has 1 MA's), (Start: 73 @18803 has 1 MA's), (74, 18809), (88, 18872), (94, 18914), (113, 18992), (121, 19040), (125, 19064), (130, 19082), (132, 19088),

Gene: HSavage_25 Start: 18682, Stop: 19104, Start Num: 43

Candidate Starts for HSavage_25:

(29, 18616), (Start: 43 @18682 has 254 MA's), (Start: 72 @18805 has 1 MA's), (Start: 73 @18811 has 1 MA's), (74, 18817), (88, 18880), (94, 18922), (113, 19000), (121, 19048), (125, 19072), (130, 19090), (132, 19096),

Gene: Haimas_25 Start: 18677, Stop: 19099, Start Num: 43

Candidate Starts for Haimas_25:

(29, 18611), (Start: 43 @18677 has 254 MA's), (Start: 72 @18800 has 1 MA's), (Start: 73 @18806 has 1 MA's), (74, 18812), (88, 18875), (94, 18917), (113, 18995), (121, 19043), (125, 19067), (130, 19085), (132, 19091),

Gene: Haleema_24 Start: 18399, Stop: 18821, Start Num: 43

Candidate Starts for Haleema_24:

(29, 18333), (Start: 43 @18399 has 254 MA's), (Start: 72 @18522 has 1 MA's), (Start: 73 @18528 has 1 MA's), (74, 18534), (88, 18597), (94, 18639), (113, 18717), (121, 18765), (125, 18789), (130, 18807), (132, 18813),

Gene: Hally898_22 Start: 18304, Stop: 18717, Start Num: 50

Candidate Starts for Hally898_22:

(Start: 50 @18304 has 85 MA's), (Start: 72 @18418 has 1 MA's), (Start: 73 @18424 has 1 MA's), (74, 18430), (79, 18466), (88, 18493), (90, 18505), (93, 18517), (94, 18535), (113, 18613), (124, 18682), (132, 18709),

Gene: Halo3_27 Start: 17997, Stop: 18440, Start Num: 53

Candidate Starts for Halo3_27:

(Start: 53 @17997 has 103 MA's), (98, 18258), (132, 18414),

Gene: Hamish_25 Start: 18669, Stop: 19091, Start Num: 43

Candidate Starts for Hamish_25:

(29, 18603), (Start: 43 @18669 has 254 MA's), (Start: 72 @18792 has 1 MA's), (Start: 73 @18798 has 1 MA's), (74, 18804), (88, 18867), (94, 18909), (113, 18987), (121, 19035), (125, 19059), (130, 19077), (132, 19083),

Gene: Hangman_23 Start: 19331, Stop: 19744, Start Num: 50

Candidate Starts for Hangman_23:

(Start: 50 @19331 has 85 MA's), (Start: 72 @19445 has 1 MA's), (Start: 73 @19451 has 1 MA's), (74, 19457), (79, 19493), (90, 19532), (93, 19544), (94, 19562), (113, 19640), (124, 19709), (125, 19712), (132, 19736),

Gene: Hans_30 Start: 21408, Stop: 21839, Start Num: 53

Candidate Starts for Hans_30:

(15, 21216), (Start: 41 @21381 has 5 MA's), (Start: 53 @21408 has 103 MA's), (71, 21492), (88, 21588), (98, 21669), (99, 21675), (101, 21687), (119, 21747), (122, 21771), (131, 21810), (132, 21813),

Gene: Happabalu_25 Start: 18391, Stop: 18813, Start Num: 42

Candidate Starts for Happabalu_25:

(Start: 42 @18391 has 66 MA's), (Start: 72 @18514 has 1 MA's), (Start: 73 @18520 has 1 MA's), (74, 18526), (88, 18589), (94, 18631), (113, 18709), (121, 18757), (125, 18781), (130, 18799), (132, 18805),

Gene: Hartsy_25 Start: 18692, Stop: 19114, Start Num: 42

Candidate Starts for Hartsy_25:

(Start: 42 @18692 has 66 MA's), (66, 18764), (Start: 72 @18815 has 1 MA's), (Start: 73 @18821 has 1 MA's), (74, 18827), (88, 18890), (94, 18932), (113, 19010), (121, 19058), (125, 19082), (130, 19100), (132, 19106),

Gene: Harvey_25 Start: 18698, Stop: 19120, Start Num: 43

Candidate Starts for Harvey_25:

(29, 18632), (Start: 43 @18698 has 254 MA's), (Start: 72 @18821 has 1 MA's), (Start: 73 @18827 has 1 MA's), (74, 18833), (88, 18896), (94, 18938), (113, 19016), (121, 19064), (125, 19088), (130, 19106), (132, 19112),

Gene: Hashim76_29 Start: 19154, Stop: 19570, Start Num: 49

Candidate Starts for Hashim76_29:

(Start: 49 @19154 has 27 MA's), (Start: 73 @19277 has 1 MA's), (76, 19307), (113, 19466), (116, 19481), (132, 19562),

Gene: Heath_22 Start: 18962, Stop: 19375, Start Num: 50

Candidate Starts for Heath_22:

(Start: 50 @18962 has 85 MA's), (Start: 72 @19076 has 1 MA's), (Start: 73 @19082 has 1 MA's), (74, 19088), (79, 19124), (90, 19163), (93, 19175), (94, 19193), (113, 19271), (124, 19340), (125, 19343), (132, 19367),

Gene: Hedgerow_27 Start: 20936, Stop: 21364, Start Num: 43

Candidate Starts for Hedgerow_27:

(35, 20909), (Start: 43 @20936 has 254 MA's), (52, 20951), (Start: 73 @21068 has 1 MA's), (74, 21074), (77, 21101), (84, 21122), (88, 21140), (113, 21260), (115, 21266), (124, 21329), (132, 21356),

Gene: Hekos_22 Start: 17227, Stop: 17649, Start Num: 42

Candidate Starts for Hekos_22:

(Start: 42 @17227 has 66 MA's), (Start: 72 @17350 has 1 MA's), (Start: 73 @17356 has 1 MA's), (74, 17362), (88, 17425), (94, 17467), (113, 17545), (121, 17593), (125, 17617), (130, 17635), (132, 17641),

Gene: Held_25 Start: 18383, Stop: 18805, Start Num: 43

Candidate Starts for Held_25:

(29, 18317), (Start: 43 @18383 has 254 MA's), (Start: 72 @18506 has 1 MA's), (Start: 73 @18512 has 1 MA's), (74, 18518), (88, 18581), (94, 18623), (113, 18701), (121, 18749), (125, 18773), (130, 18791), (132, 18797),

Gene: HenryJackson_24 Start: 18399, Stop: 18821, Start Num: 43

Candidate Starts for HenryJackson_24:

(29, 18333), (Start: 43 @18399 has 254 MA's), (Start: 72 @18522 has 1 MA's), (Start: 73 @18528 has 1 MA's), (74, 18534), (88, 18597), (94, 18639), (113, 18717), (121, 18765), (125, 18789), (130, 18807), (132, 18813),

Gene: Hertubise_25 Start: 18691, Stop: 19113, Start Num: 43

Candidate Starts for Hertubise_25:

(29, 18625), (Start: 43 @18691 has 254 MA's), (Start: 72 @18814 has 1 MA's), (Start: 73 @18820 has 1 MA's), (74, 18826), (88, 18889), (94, 18931), (113, 19009), (121, 19057), (125, 19081), (130, 19099), (132, 19105),

Gene: Hetaeria_25 Start: 18692, Stop: 19114, Start Num: 43

Candidate Starts for Hetaeria_25:

(29, 18626), (Start: 43 @18692 has 254 MA's), (Start: 72 @18815 has 1 MA's), (Start: 73 @18821 has 1 MA's), (74, 18827), (88, 18890), (94, 18932), (102, 18983), (113, 19010), (121, 19058), (125, 19082), (130, 19100), (132, 19106),

Gene: HighStump_24 Start: 18382, Stop: 18804, Start Num: 43

Candidate Starts for HighStump_24:

(29, 18316), (Start: 43 @18382 has 254 MA's), (Start: 72 @18505 has 1 MA's), (Start: 73 @18511 has 1 MA's), (74, 18517), (88, 18580), (94, 18622), (102, 18673), (113, 18700), (121, 18748), (125, 18772), (130, 18790), (132, 18796),

Gene: Hocus_24 Start: 18385, Stop: 18807, Start Num: 42

Candidate Starts for Hocus_24:

(Start: 42 @18385 has 66 MA's), (Start: 72 @18508 has 1 MA's), (Start: 73 @18514 has 1 MA's), (74, 18520), (88, 18583), (94, 18625), (113, 18703), (121, 18751), (125, 18775), (130, 18793), (132, 18799),

Gene: HogWash_24 Start: 18679, Stop: 19101, Start Num: 42

Candidate Starts for HogWash_24:

(Start: 42 @18679 has 66 MA's), (Start: 72 @18802 has 1 MA's), (Start: 73 @18808 has 1 MA's), (74, 18814), (88, 18877), (94, 18919), (113, 18997), (121, 19045), (125, 19069), (130, 19087), (132, 19093),

Gene: Holeinone_27 Start: 20832, Stop: 21260, Start Num: 43

Candidate Starts for Holeinone_27:

(35, 20805), (Start: 43 @20832 has 254 MA's), (52, 20847), (Start: 73 @20964 has 1 MA's), (74, 20970), (77, 20997), (84, 21018), (88, 21036), (113, 21156), (115, 21162), (124, 21225), (132, 21252),

Gene: Horchata_25 Start: 18661, Stop: 19083, Start Num: 43

Candidate Starts for Horchata_25:

(29, 18595), (Start: 43 @18661 has 254 MA's), (Start: 72 @18784 has 1 MA's), (Start: 73 @18790 has 1 MA's), (74, 18796), (88, 18859), (94, 18901), (113, 18979), (121, 19027), (125, 19051), (130, 19069), (132, 19075),

Gene: Hosp_019 Start: 16062, Stop: 16475, Start Num: 42

Candidate Starts for Hosp_019:

(Start: 42 @16062 has 66 MA's), (70, 16152), (79, 16230), (88, 16257), (94, 16299), (112, 16374),

Gene: Hydro_23 Start: 19336, Stop: 19749, Start Num: 50

Candidate Starts for Hydro_23:

(Start: 50 @19336 has 85 MA's), (Start: 72 @19450 has 1 MA's), (Start: 73 @19456 has 1 MA's), (74, 19462), (79, 19498), (90, 19537), (93, 19549), (94, 19567), (113, 19645), (121, 19693), (124, 19714), (125, 19717), (132, 19741),

Gene: Hyperion_32 Start: 22347, Stop: 22760, Start Num: 50

Candidate Starts for Hyperion_32:

(30, 22290), (Start: 50 @22347 has 85 MA's), (79, 22506), (100, 22623), (106, 22638),

Gene: ImtiyazSitla_24 Start: 18226, Stop: 18648, Start Num: 42

Candidate Starts for ImtiyazSitla_24:

(Start: 42 @18226 has 66 MA's), (Start: 72 @18349 has 1 MA's), (Start: 73 @18355 has 1 MA's), (74, 18361), (88, 18424), (94, 18466), (113, 18544), (121, 18592), (125, 18616), (130, 18634), (132, 18640),

Gene: Imvubu_19 Start: 16429, Stop: 16845, Start Num: 49

Candidate Starts for Imvubu_19:

(Start: 49 @16429 has 27 MA's), (52, 16438), (Start: 73 @16552 has 1 MA's), (90, 16633), (105, 16723), (130, 16831), (132, 16837),

Gene: Inchworm_25 Start: 18668, Stop: 19090, Start Num: 43

Candidate Starts for Inchworm_25:

(29, 18602), (Start: 43 @18668 has 254 MA's), (Start: 72 @18791 has 1 MA's), (Start: 73 @18797 has 1 MA's), (74, 18803), (88, 18866), (94, 18908), (113, 18986), (121, 19034), (125, 19058), (130, 19076), (132, 19082),

Gene: Indlovu_23 Start: 19044, Stop: 19460, Start Num: 42

Candidate Starts for Indlovu_23:

(Start: 42 @19044 has 66 MA's), (79, 19212), (94, 19281), (113, 19359), (124, 19428), (125, 19431),

Gene: Inspectinfecti_29 Start: 21832, Stop: 22263, Start Num: 53

Candidate Starts for Inspectinfecti_29:

(12, 21604), (15, 21640), (Start: 41 @21805 has 5 MA's), (Start: 53 @21832 has 103 MA's), (71, 21916), (88, 22012), (98, 22093), (99, 22099), (101, 22111), (119, 22171), (122, 22195), (131, 22234), (132, 22237),

Gene: Inverness_25 Start: 18682, Stop: 19104, Start Num: 43

Candidate Starts for Inverness_25:

(29, 18616), (Start: 43 @18682 has 254 MA's), (Start: 72 @18805 has 1 MA's), (Start: 73 @18811 has 1 MA's), (74, 18817), (88, 18880), (94, 18922), (113, 19000), (121, 19048), (125, 19072), (130, 19090), (132, 19096),

Gene: Iridessa_25 Start: 18368, Stop: 18790, Start Num: 42

Candidate Starts for Iridessa_25:

(Start: 42 @18368 has 66 MA's), (66, 18440), (Start: 72 @18491 has 1 MA's), (Start: 73 @18497 has 1 MA's), (74, 18503), (88, 18566), (94, 18608), (113, 18686), (121, 18734), (125, 18758), (130, 18776), (132, 18782),

Gene: Iridoclysis_25 Start: 18656, Stop: 19078, Start Num: 43

Candidate Starts for Iridoclysis_25:

(29, 18590), (Start: 43 @18656 has 254 MA's), (Start: 72 @18779 has 1 MA's), (Start: 73 @18785 has 1 MA's), (74, 18791), (88, 18854), (94, 18896), (113, 18974), (121, 19022), (125, 19046), (130, 19064), (132, 19070),

Gene: IsaacEli_25 Start: 18686, Stop: 19108, Start Num: 43

Candidate Starts for IsaacEli_25:

(29, 18620), (Start: 43 @18686 has 254 MA's), (Start: 72 @18809 has 1 MA's), (Start: 73 @18815 has 1 MA's), (74, 18821), (88, 18884), (94, 18926), (102, 18977), (113, 19004), (121, 19052), (125, 19076), (130, 19094), (132, 19100),

Gene: ItsyBitsy1_27 Start: 20825, Stop: 21253, Start Num: 43

Candidate Starts for ItsyBitsy1_27:

(35, 20798), (Start: 43 @20825 has 254 MA's), (52, 20840), (Start: 73 @20957 has 1 MA's), (74, 20963), (77, 20990), (84, 21011), (88, 21029), (113, 21149), (115, 21155), (124, 21218), (132, 21245),

Gene: JDog_24 Start: 18392, Stop: 18814, Start Num: 42

Candidate Starts for JDog_24:

(Start: 42 @18392 has 66 MA's), (Start: 72 @18515 has 1 MA's), (Start: 73 @18521 has 1 MA's), (74, 18527), (88, 18590), (94, 18632), (113, 18710), (121, 18758), (125, 18782), (130, 18800), (132, 18806),

Gene: JKSyngboy_27 Start: 22410, Stop: 22844, Start Num: 49

Candidate Starts for JKSyngboy_27:

(Start: 49 @22410 has 27 MA's), (67, 22464), (71, 22494), (74, 22524), (82, 22569), (98, 22671), (102, 22692), (120, 22764), (132, 22815),

Gene: Jabberwocky_28 Start: 23780, Stop: 24214, Start Num: 53

Candidate Starts for Jabberwocky_28:

(40, 23750), (Start: 53 @23780 has 103 MA's), (71, 23864), (82, 23939), (89, 23963), (98, 24041), (102, 24062), (120, 24134), (132, 24185),

Gene: JacAttac_25 Start: 18668, Stop: 19090, Start Num: 43

Candidate Starts for JacAttac_25:

(29, 18602), (Start: 43 @18668 has 254 MA's), (Start: 72 @18791 has 1 MA's), (Start: 73 @18797 has 1 MA's), (74, 18803), (88, 18866), (94, 18908), (113, 18986), (121, 19034), (125, 19058), (130, 19076), (132, 19082),

Gene: JaguarMi_23 Start: 18798, Stop: 19211, Start Num: 50

Candidate Starts for JaguarMi_23:

(Start: 50 @18798 has 85 MA's), (Start: 72 @18912 has 1 MA's), (Start: 73 @18918 has 1 MA's), (74, 18924), (79, 18960), (90, 18999), (93, 19011), (94, 19029), (113, 19107), (124, 19176), (125, 19179), (132, 19203),

Gene: JakeO_24 Start: 18392, Stop: 18814, Start Num: 42

Candidate Starts for JakeO_24:

(Start: 42 @18392 has 66 MA's), (Start: 72 @18515 has 1 MA's), (Start: 73 @18521 has 1 MA's), (74, 18527), (88, 18590), (94, 18632), (113, 18710), (121, 18758), (125, 18782), (130, 18800), (132, 18806),

Gene: Jambalaya_26 Start: 17351, Stop: 17794, Start Num: 53

Candidate Starts for Jambalaya_26:

(Start: 53 @17351 has 103 MA's), (98, 17612), (132, 17768),

Gene: JangoPhett_25 Start: 18666, Stop: 19088, Start Num: 43

Candidate Starts for JangoPhett_25:

(29, 18600), (Start: 43 @18666 has 254 MA's), (Start: 72 @18789 has 1 MA's), (Start: 73 @18795 has 1 MA's), (74, 18801), (88, 18864), (94, 18906), (113, 18984), (121, 19032), (125, 19056), (130, 19074), (132, 19080),

Gene: Jehoshaphat_35 Start: 22869, Stop: 23273, Start Num: 50

Candidate Starts for Jehoshaphat_35:

(30, 22812), (Start: 50 @22869 has 85 MA's), (56, 22905), (92, 23079), (94, 23100), (103, 23145), (106, 23154), (131, 23259), (134, 23268),

Gene: JellyBelly_22 Start: 17123, Stop: 17536, Start Num: 45

Candidate Starts for JellyBelly_22:

(25, 17024), (Start: 37 @17102 has 1 MA's), (Start: 45 @17123 has 19 MA's), (55, 17165), (68, 17204), (Start: 73 @17249 has 1 MA's), (74, 17255), (84, 17303), (94, 17363),

Gene: Jeon_19 Start: 18215, Stop: 18625, Start Num: 50

Candidate Starts for Jeon_19:

(Start: 50 @18215 has 85 MA's), (68, 18290), (Start: 73 @18335 has 1 MA's), (74, 18341), (81, 18383), (88, 18407), (92, 18428), (112, 18530), (121, 18575),

Gene: Jesabah_25 Start: 18394, Stop: 18816, Start Num: 43

Candidate Starts for Jesabah_25:

(29, 18328), (Start: 43 @18394 has 254 MA's), (Start: 72 @18517 has 1 MA's), (Start: 73 @18523 has 1 MA's), (74, 18529), (88, 18592), (94, 18634), (113, 18712), (121, 18760), (125, 18784), (130, 18802), (132, 18808),

Gene: Jillium_24 Start: 18392, Stop: 18814, Start Num: 43

Candidate Starts for Jillium_24:

(29, 18326), (Start: 43 @18392 has 254 MA's), (Start: 72 @18515 has 1 MA's), (Start: 73 @18521 has 1 MA's), (74, 18527), (88, 18590), (94, 18632), (113, 18710), (121, 18758), (125, 18782), (130, 18800), (132, 18806),

Gene: Jiminy_24 Start: 18230, Stop: 18652, Start Num: 42

Candidate Starts for Jiminy_24:

(Start: 42 @18230 has 66 MA's), (Start: 72 @18353 has 1 MA's), (Start: 73 @18359 has 1 MA's), (74, 18365), (88, 18428), (94, 18470), (113, 18548), (121, 18596), (125, 18620), (130, 18638), (132, 18644),

Gene: Jiraiya_24 Start: 18390, Stop: 18812, Start Num: 43

Candidate Starts for Jiraiya_24:

(29, 18324), (Start: 43 @18390 has 254 MA's), (Start: 72 @18513 has 1 MA's), (Start: 73 @18519 has 1 MA's), (74, 18525), (88, 18588), (94, 18630), (113, 18708), (121, 18756), (125, 18780), (130, 18798), (132, 18804),

Gene: JohnLord_22 Start: 16002, Stop: 16328, Start Num: 68

Candidate Starts for JohnLord_22:

(Start: 49 @15924 has 27 MA's), (68, 16002), (Start: 73 @16047 has 1 MA's), (74, 16053), (88, 16119), (94, 16161), (96, 16185), (102, 16212), (123, 16302),

Gene: JohnPork_26 Start: 17599, Stop: 18042, Start Num: 53

Candidate Starts for JohnPork_26:

(Start: 53 @17599 has 103 MA's), (98, 17860), (132, 18016),

Gene: Jolie1_021 Start: 17832, Stop: 18245, Start Num: 42

Candidate Starts for Jolie1_021:

(Start: 42 @17832 has 66 MA's), (79, 18000), (82, 18009), (88, 18027), (112, 18144),

Gene: Jollymon_53 Start: 29535, Stop: 29960, Start Num: 41

Candidate Starts for Jollymon_53:

(Start: 41 @29535 has 5 MA's), (86, 29733), (96, 29805), (113, 29859), (116, 29874),

Gene: JoyceMaria_23 Start: 19337, Stop: 19750, Start Num: 50

Candidate Starts for JoyceMaria_23:

(Start: 50 @19337 has 85 MA's), (Start: 72 @19451 has 1 MA's), (Start: 73 @19457 has 1 MA's), (74, 19463), (79, 19499), (90, 19538), (93, 19550), (94, 19568), (113, 19646), (124, 19715), (125, 19718), (132, 19742),

Gene: Judebell_35 Start: 22375, Stop: 22779, Start Num: 50

Candidate Starts for Judebell_35:

(Start: 50 @22375 has 85 MA's), (54, 22387), (92, 22585), (94, 22606), (103, 22651), (106, 22660), (131, 22765), (134, 22774),

Gene: KLucky39_25 Start: 18674, Stop: 19096, Start Num: 43

Candidate Starts for KLucky39_25:

(29, 18608), (Start: 43 @18674 has 254 MA's), (Start: 72 @18797 has 1 MA's), (Start: 73 @18803 has 1 MA's), (74, 18809), (88, 18872), (94, 18914), (113, 18992), (121, 19040), (125, 19064), (130, 19082), (132, 19088),

Gene: Kahve_24 Start: 18396, Stop: 18818, Start Num: 43

Candidate Starts for Kahve_24:

(29, 18330), (Start: 43 @18396 has 254 MA's), (Start: 72 @18519 has 1 MA's), (Start: 73 @18525 has 1 MA's), (74, 18531), (88, 18594), (94, 18636), (102, 18687), (113, 18714), (121, 18762), (125, 18786), (130, 18804), (132, 18810),

Gene: Kailash_25 Start: 18704, Stop: 19126, Start Num: 42

Candidate Starts for Kailash_25:

(Start: 42 @18704 has 66 MA's), (66, 18776), (Start: 72 @18827 has 1 MA's), (Start: 73 @18833 has 1 MA's), (74, 18839), (88, 18902), (94, 18944), (113, 19022), (121, 19070), (125, 19094), (130, 19112), (132, 19118),

Gene: Kaleb_27 Start: 20951, Stop: 21379, Start Num: 43

Candidate Starts for Kaleb_27:

(35, 20924), (Start: 43 @20951 has 254 MA's), (52, 20966), (Start: 73 @21083 has 1 MA's), (74, 21089), (77, 21116), (84, 21137), (88, 21155), (113, 21275), (115, 21281), (124, 21344), (132, 21371),

Gene: Kamashten_29 Start: 23229, Stop: 23663, Start Num: 53

Candidate Starts for Kamashten_29:

(40, 23199), (Start: 53 @23229 has 103 MA's), (71, 23313), (82, 23388), (89, 23412), (98, 23490), (102, 23511), (120, 23583), (132, 23634),

Gene: KarasumaRum_27 Start: 19514, Stop: 19930, Start Num: 49

Candidate Starts for KarasumaRum_27:

(Start: 49 @19514 has 27 MA's), (88, 19706), (102, 19799), (133, 19925),

Gene: Karn_24 Start: 18390, Stop: 18812, Start Num: 42

Candidate Starts for Karn_24:

(Start: 42 @18390 has 66 MA's), (Start: 72 @18513 has 1 MA's), (Start: 73 @18519 has 1 MA's), (74, 18525), (88, 18588), (94, 18630), (113, 18708), (121, 18756), (125, 18780), (130, 18798), (132, 18804),

Gene: Katniss_25 Start: 18694, Stop: 19116, Start Num: 43

Candidate Starts for Katniss_25:

(29, 18628), (Start: 43 @18694 has 254 MA's), (Start: 72 @18817 has 1 MA's), (Start: 73 @18823 has 1 MA's), (74, 18829), (88, 18892), (94, 18934), (113, 19012), (121, 19060), (125, 19084), (130, 19102), (132, 19108),

Gene: KayaCho_21 Start: 17836, Stop: 18249, Start Num: 42

Candidate Starts for KayaCho_21:

(Start: 42 @17836 has 66 MA's), (74, 17968), (79, 18004), (88, 18031), (94, 18073), (112, 18148), (113, 18151),

Gene: Keitabear_30 Start: 24585, Stop: 25019, Start Num: 53

Candidate Starts for Keitabear_30:

(40, 24555), (Start: 53 @24585 has 103 MA's), (71, 24669), (82, 24744), (89, 24768), (98, 24846), (102, 24867), (120, 24939), (132, 24990),

Gene: Keitherie_25 Start: 18714, Stop: 19136, Start Num: 42

Candidate Starts for Keitherie_25:

(Start: 42 @18714 has 66 MA's), (66, 18786), (Start: 72 @18837 has 1 MA's), (Start: 73 @18843 has 1 MA's), (74, 18849), (88, 18912), (94, 18954), (113, 19032), (121, 19080), (125, 19104), (130, 19122), (132, 19128),

Gene: Kelcole_31 Start: 20979, Stop: 21374, Start Num: 50

Candidate Starts for Kelcole_31:

(Start: 50 @20979 has 85 MA's), (Start: 57 @21021 has 1 MA's), (62, 21030), (79, 21138), (100, 21252), (111, 21279), (131, 21366),

Gene: Kewpiedoll_29 Start: 22426, Stop: 22860, Start Num: 53

Candidate Starts for Kewpiedoll_29:

(40, 22396), (Start: 53 @22426 has 103 MA's), (71, 22510), (82, 22585), (89, 22609), (98, 22687), (102, 22708), (120, 22780), (132, 22831),

Gene: Khan1_25 Start: 18410, Stop: 18832, Start Num: 42

Candidate Starts for Khan1_25:

(Start: 42 @18410 has 66 MA's), (66, 18482), (Start: 72 @18533 has 1 MA's), (Start: 73 @18539 has 1 MA's), (74, 18545), (88, 18608), (94, 18650), (113, 18728), (121, 18776), (125, 18800), (130, 18818), (132, 18824),

Gene: Kheth_27 Start: 20837, Stop: 21265, Start Num: 43

Candidate Starts for Kheth_27:

(35, 20810), (Start: 43 @20837 has 254 MA's), (52, 20852), (Start: 73 @20969 has 1 MA's), (74, 20975), (77, 21002), (84, 21023), (88, 21041), (113, 21161), (115, 21167), (124, 21230), (132, 21257),

Gene: Kikipoo_25 Start: 18686, Stop: 19108, Start Num: 43

Candidate Starts for Kikipoo_25:

(29, 18620), (Start: 43 @18686 has 254 MA's), (Start: 72 @18809 has 1 MA's), (Start: 73 @18815 has 1 MA's), (74, 18821), (88, 18884), (94, 18926), (102, 18977), (113, 19004), (121, 19052), (125, 19076), (130, 19094), (132, 19100),

Gene: KillerQueen_33 Start: 20774, Stop: 21169, Start Num: 50

Candidate Starts for KillerQueen_33:

(Start: 50 @20774 has 85 MA's), (62, 20825), (79, 20933), (94, 21008), (111, 21074), (131, 21161),

Gene: Kimbrough_25 Start: 18388, Stop: 18810, Start Num: 43

Candidate Starts for Kimbrough_25:

(29, 18322), (Start: 43 @18388 has 254 MA's), (Start: 72 @18511 has 1 MA's), (Start: 73 @18517 has 1 MA's), (74, 18523), (88, 18586), (94, 18628), (113, 18706), (121, 18754), (125, 18778), (130, 18796), (132, 18802),

Gene: KimmyK_28 Start: 18286, Stop: 18729, Start Num: 53

Candidate Starts for KimmyK_28:

(Start: 53 @18286 has 103 MA's), (98, 18547), (132, 18703),

Gene: KingVeVeVe_25 Start: 18665, Stop: 19087, Start Num: 43

Candidate Starts for KingVeVeVe_25:

(29, 18599), (Start: 43 @18665 has 254 MA's), (Start: 72 @18788 has 1 MA's), (Start: 73 @18794 has 1 MA's), (74, 18800), (88, 18863), (94, 18905), (113, 18983), (121, 19031), (125, 19055), (130, 19073), (132, 19079),

Gene: KingstonB_54 Start: 29013, Stop: 29438, Start Num: 41

Candidate Starts for KingstonB_54:

(Start: 41 @29013 has 5 MA's), (86, 29211), (96, 29283), (113, 29337), (116, 29352),

Gene: KlimbOn_25 Start: 18674, Stop: 19096, Start Num: 43

Candidate Starts for KlimbOn_25:

(29, 18608), (Start: 43 @18674 has 254 MA's), (Start: 72 @18797 has 1 MA's), (Start: 73 @18803 has 1 MA's), (74, 18809), (88, 18872), (94, 18914), (113, 18992), (121, 19040), (125, 19064), (130, 19082), (132, 19088),

Gene: Kloppinator_25 Start: 18694, Stop: 19116, Start Num: 43

Candidate Starts for Kloppinator_25:

(29, 18628), (Start: 43 @18694 has 254 MA's), (Start: 72 @18817 has 1 MA's), (Start: 73 @18823 has 1 MA's), (74, 18829), (88, 18892), (94, 18934), (113, 19012), (121, 19060), (125, 19084), (130, 19102), (132, 19108),

Gene: Knocker_27 Start: 21795, Stop: 22214, Start Num: 49

Candidate Starts for Knocker_27:

(Start: 49 @21795 has 27 MA's), (74, 21924), (79, 21960), (93, 22011), (94, 22029), (102, 22080), (113, 22107), (116, 22122), (125, 22179), (130, 22197), (132, 22203),

Gene: Kolhan_27 Start: 20834, Stop: 21262, Start Num: 43

Candidate Starts for Kolhan_27:

(35, 20807), (Start: 43 @20834 has 254 MA's), (52, 20849), (Start: 73 @20966 has 1 MA's), (74, 20972), (77, 20999), (84, 21020), (88, 21038), (113, 21158), (115, 21164), (124, 21227), (132, 21254),

Gene: Kroos_30 Start: 22606, Stop: 23040, Start Num: 53

Candidate Starts for Kroos_30:

(Start: 50 @22597 has 85 MA's), (Start: 53 @22606 has 103 MA's), (71, 22690), (82, 22765), (98, 22867), (102, 22888), (119, 22945), (120, 22960), (132, 23011),

Gene: Kwadwo_24 Start: 18378, Stop: 18800, Start Num: 43

Candidate Starts for Kwadwo_24:

(29, 18312), (Start: 43 @18378 has 254 MA's), (Start: 72 @18501 has 1 MA's), (Start: 73 @18507 has 1 MA's), (74, 18513), (88, 18576), (94, 18618), (113, 18696), (121, 18744), (125, 18768), (130, 18786), (132, 18792),

Gene: Kwekel_27 Start: 19551, Stop: 19982, Start Num: 53

Candidate Starts for Kwekel_27:

(Start: 53 @19551 has 103 MA's), (71, 19635), (82, 19710), (88, 19731), (101, 19830), (107, 19845), (120, 19905), (131, 19953), (132, 19956), (134, 19965),

Gene: Kwksand96_24 Start: 18240, Stop: 18662, Start Num: 42

Candidate Starts for Kwksand96_24:

(Start: 42 @18240 has 66 MA's), (Start: 72 @18363 has 1 MA's), (Start: 73 @18369 has 1 MA's), (74, 18375), (88, 18438), (94, 18480), (113, 18558), (121, 18606), (125, 18630), (130, 18648), (132, 18654),

Gene: Kwobi_31 Start: 22592, Stop: 23026, Start Num: 53

Candidate Starts for Kwobi_31:

(Start: 50 @22583 has 85 MA's), (Start: 53 @22592 has 103 MA's), (71, 22676), (82, 22751), (98, 22853), (102, 22874), (119, 22931), (120, 22946), (132, 22997),

Gene: Kyva_35 Start: 22599, Stop: 23012, Start Num: 50

Candidate Starts for Kyva_35:

(30, 22542), (Start: 50 @22599 has 85 MA's), (79, 22758), (100, 22875), (106, 22890),

Gene: Labeouficaum_24 Start: 18236, Stop: 18658, Start Num: 42

Candidate Starts for Labeouficaum_24:

(Start: 42 @18236 has 66 MA's), (Start: 72 @18359 has 1 MA's), (Start: 73 @18365 has 1 MA's), (74, 18371), (88, 18434), (94, 18476), (113, 18554), (121, 18602), (125, 18626), (130, 18644), (132, 18650),

Gene: Lambano_22 Start: 18304, Stop: 18717, Start Num: 50

Candidate Starts for Lambano_22:

(Start: 50 @18304 has 85 MA's), (Start: 72 @18418 has 1 MA's), (Start: 73 @18424 has 1 MA's), (74, 18430), (79, 18466), (88, 18493), (90, 18505), (93, 18517), (94, 18535), (113, 18613), (124, 18682), (132, 18709),

Gene: Lars_27 Start: 20954, Stop: 21382, Start Num: 43

Candidate Starts for Lars_27:

(35, 20927), (Start: 43 @20954 has 254 MA's), (52, 20969), (Start: 73 @21086 has 1 MA's), (74, 21092), (77, 21119), (84, 21140), (88, 21158), (113, 21278), (115, 21284), (124, 21347), (132, 21374),

Gene: Larson_26 Start: 18712, Stop: 19134, Start Num: 42

Candidate Starts for Larson_26:

(Start: 42 @18712 has 66 MA's), (66, 18784), (Start: 72 @18835 has 1 MA's), (Start: 73 @18841 has 1 MA's), (74, 18847), (88, 18910), (94, 18952), (113, 19030), (121, 19078), (125, 19102), (130, 19120), (132, 19126),

Gene: LasagnaCat_25 Start: 18680, Stop: 19102, Start Num: 43

Candidate Starts for LasagnaCat_25:

(26, 18590), (29, 18614), (Start: 43 @18680 has 254 MA's), (Start: 72 @18803 has 1 MA's), (Start: 73 @18809 has 1 MA's), (74, 18815), (88, 18878), (94, 18920), (113, 18998), (121, 19046), (125, 19070), (130, 19088), (132, 19094),

Gene: Lasso_25 Start: 18653, Stop: 19075, Start Num: 43

Candidate Starts for Lasso_25:

(29, 18587), (Start: 43 @18653 has 254 MA's), (Start: 72 @18776 has 1 MA's), (Start: 73 @18782 has 1 MA's), (74, 18788), (88, 18851), (94, 18893), (102, 18944), (113, 18971), (121, 19019), (125, 19043), (130, 19061), (132, 19067),

Gene: Laurie_27 Start: 20832, Stop: 21260, Start Num: 43

Candidate Starts for Laurie_27:

(35, 20805), (Start: 43 @20832 has 254 MA's), (52, 20847), (Start: 73 @20964 has 1 MA's), (74, 20970), (77, 20997), (84, 21018), (88, 21036), (94, 21078), (113, 21156), (115, 21162), (124, 21225), (132, 21252),

Gene: LeeLot_25 Start: 18678, Stop: 19100, Start Num: 43

Candidate Starts for LeeLot_25:

(29, 18612), (Start: 43 @18678 has 254 MA's), (Start: 72 @18801 has 1 MA's), (Start: 73 @18807 has 1 MA's), (74, 18813), (88, 18876), (94, 18918), (113, 18996), (121, 19044), (125, 19068), (130, 19086),

(132, 19092),

Gene: Lego3393_25 Start: 18690, Stop: 19112, Start Num: 43

Candidate Starts for Lego3393_25:

(29, 18624), (Start: 43 @18690 has 254 MA's), (Start: 72 @18813 has 1 MA's), (Start: 73 @18819 has 1 MA's), (74, 18825), (88, 18888), (94, 18930), (113, 19008), (121, 19056), (125, 19080), (130, 19098), (132, 19104),

Gene: Legolas_24 Start: 18394, Stop: 18816, Start Num: 43

Candidate Starts for Legolas_24:

(29, 18328), (Start: 43 @18394 has 254 MA's), (Start: 72 @18517 has 1 MA's), (Start: 73 @18523 has 1 MA's), (74, 18529), (88, 18592), (94, 18634), (113, 18712), (121, 18760), (125, 18784), (130, 18802), (132, 18808),

Gene: Lehmann_25 Start: 18220, Stop: 18642, Start Num: 43

Candidate Starts for Lehmann_25:

(29, 18154), (Start: 43 @18220 has 254 MA's), (Start: 72 @18343 has 1 MA's), (Start: 73 @18349 has 1 MA's), (74, 18355), (88, 18418), (94, 18460), (113, 18538), (121, 18586), (125, 18610), (130, 18628), (132, 18634),

Gene: LeiMonet_25 Start: 18385, Stop: 18807, Start Num: 43

Candidate Starts for LeiMonet_25:

(29, 18319), (Start: 43 @18385 has 254 MA's), (Start: 72 @18508 has 1 MA's), (Start: 73 @18514 has 1 MA's), (74, 18520), (88, 18583), (94, 18625), (102, 18676), (113, 18703), (121, 18751), (125, 18775), (130, 18793), (132, 18799),

Gene: LemonSlice_25 Start: 18385, Stop: 18807, Start Num: 43

Candidate Starts for LemonSlice_25:

(29, 18319), (Start: 43 @18385 has 254 MA's), (Start: 72 @18508 has 1 MA's), (Start: 73 @18514 has 1 MA's), (74, 18520), (88, 18583), (94, 18625), (113, 18703), (121, 18751), (125, 18775), (130, 18793), (132, 18799),

Gene: Lennon_30 Start: 24387, Stop: 24821, Start Num: 53

Candidate Starts for Lennon_30:

(40, 24357), (Start: 53 @24387 has 103 MA's), (71, 24471), (82, 24546), (98, 24648), (102, 24669), (120, 24741), (132, 24792),

Gene: Leonard_28 Start: 21406, Stop: 21837, Start Num: 53

Candidate Starts for Leonard_28:

(12, 21178), (15, 21214), (Start: 41 @21379 has 5 MA's), (Start: 43 @21382 has 254 MA's), (Start: 53 @21406 has 103 MA's), (71, 21490), (88, 21586), (98, 21667), (99, 21673), (101, 21685), (119, 21745), (122, 21769), (131, 21808), (132, 21811),

Gene: Lephleur_27 Start: 20837, Stop: 21265, Start Num: 43

Candidate Starts for Lephleur_27:

(35, 20810), (Start: 43 @20837 has 254 MA's), (52, 20852), (Start: 73 @20969 has 1 MA's), (74, 20975), (77, 21002), (84, 21023), (88, 21041), (113, 21161), (115, 21167), (124, 21230), (132, 21257),

Gene: Ligma_22 Start: 17225, Stop: 17635, Start Num: 45

Candidate Starts for Ligma_22:

(Start: 45 @17225 has 19 MA's), (68, 17306), (Start: 72 @17345 has 1 MA's), (74, 17357), (81, 17399), (84, 17405), (88, 17423), (101, 17513),

Gene: LilHam_27 Start: 21186, Stop: 21620, Start Num: 53

Candidate Starts for LilHam_27:

(Start: 50 @21177 has 85 MA's), (Start: 53 @21186 has 103 MA's), (71, 21270), (82, 21345), (98, 21447), (102, 21468), (119, 21525), (120, 21540), (132, 21591),

Gene: LilMcDreamy_22 Start: 19306, Stop: 19722, Start Num: 49

Candidate Starts for LilMcDreamy_22:

(Start: 49 @19306 has 27 MA's), (70, 19393), (Start: 73 @19429 has 1 MA's), (74, 19435), (97, 19570), (113, 19618),

Gene: LilSmirk_27 Start: 20834, Stop: 21262, Start Num: 43

Candidate Starts for LilSmirk_27:

(35, 20807), (Start: 43 @20834 has 254 MA's), (52, 20849), (Start: 73 @20966 has 1 MA's), (74, 20972), (77, 20999), (84, 21020), (88, 21038), (113, 21158), (115, 21164), (124, 21227), (132, 21254),

Gene: LittleDigger_22 Start: 18311, Stop: 18724, Start Num: 50

Candidate Starts for LittleDigger_22:

(Start: 50 @18311 has 85 MA's), (Start: 72 @18425 has 1 MA's), (Start: 73 @18431 has 1 MA's), (74, 18437), (79, 18473), (90, 18512), (93, 18524), (94, 18542), (113, 18620), (124, 18689), (132, 18716),

Gene: LittleMinkey_30 Start: 19265, Stop: 19681, Start Num: 49

Candidate Starts for LittleMinkey_30:

(Start: 49 @19265 has 27 MA's), (76, 19418), (77, 19421), (113, 19577), (116, 19592), (132, 19673),

Gene: LittleMunchkin_24 Start: 20052, Stop: 20465, Start Num: 45

Candidate Starts for LittleMunchkin_24:

(Start: 45 @20052 has 19 MA's), (66, 20121), (68, 20133), (74, 20184), (84, 20232), (113, 20370), (124, 20439),

Gene: LizLemon_27 Start: 20954, Stop: 21382, Start Num: 43

Candidate Starts for LizLemon_27:

(35, 20927), (Start: 43 @20954 has 254 MA's), (52, 20969), (Start: 73 @21086 has 1 MA's), (74, 21092), (77, 21119), (84, 21140), (88, 21158), (113, 21278), (115, 21284), (124, 21347), (132, 21374),

Gene: Llemily_32 Start: 21645, Stop: 22049, Start Num: 50

Candidate Starts for Llemily_32:

(30, 21588), (Start: 50 @21645 has 85 MA's), (56, 21681), (92, 21855), (94, 21876), (103, 21921), (106, 21930), (131, 22035), (134, 22044),

Gene: Lolalove_23 Start: 19333, Stop: 19746, Start Num: 50

Candidate Starts for Lolalove_23:

(Start: 50 @19333 has 85 MA's), (Start: 72 @19447 has 1 MA's), (Start: 73 @19453 has 1 MA's), (74, 19459), (79, 19495), (90, 19534), (93, 19546), (94, 19564), (113, 19642), (121, 19690), (124, 19711), (125, 19714), (132, 19738),

Gene: Lonelysoil_32 Start: 21890, Stop: 22294, Start Num: 50

Candidate Starts for Lonelysoil_32:

(30, 21833), (Start: 50 @21890 has 85 MA's), (56, 21926), (92, 22100), (94, 22121), (103, 22166), (106, 22175), (131, 22280), (134, 22289),

Gene: Longacauda_24 Start: 18380, Stop: 18802, Start Num: 42

Candidate Starts for Longacauda_24:

(Start: 42 @18380 has 66 MA's), (Start: 72 @18503 has 1 MA's), (Start: 73 @18509 has 1 MA's), (74, 18515), (88, 18578), (94, 18620), (113, 18698), (121, 18746), (125, 18770), (130, 18788), (132, 18794),

Gene: Lopsy_24 Start: 18236, Stop: 18658, Start Num: 43

Candidate Starts for Lopsy_24:

(29, 18170), (Start: 43 @18236 has 254 MA's), (Start: 72 @18359 has 1 MA's), (Start: 73 @18365 has 1 MA's), (74, 18371), (88, 18434), (94, 18476), (113, 18554), (121, 18602), (125, 18626), (130, 18644), (132, 18650),

Gene: LostAndPhound_24 Start: 18387, Stop: 18809, Start Num: 43

Candidate Starts for LostAndPhound_24:

(29, 18321), (Start: 43 @18387 has 254 MA's), (Start: 72 @18510 has 1 MA's), (Start: 73 @18516 has 1 MA's), (74, 18522), (88, 18585), (94, 18627), (102, 18678), (113, 18705), (121, 18753), (125, 18777), (130, 18795), (132, 18801),

Gene: Love_33 Start: 24151, Stop: 24585, Start Num: 53

Candidate Starts for Love_33:

(40, 24121), (Start: 53 @24151 has 103 MA's), (71, 24235), (82, 24310), (89, 24334), (98, 24412), (120, 24505), (132, 24556),

Gene: LuckyMarjie_24 Start: 18400, Stop: 18822, Start Num: 43

Candidate Starts for LuckyMarjie_24:

(29, 18334), (Start: 43 @18400 has 254 MA's), (Start: 72 @18523 has 1 MA's), (Start: 73 @18529 has 1 MA's), (74, 18535), (88, 18598), (94, 18640), (113, 18718), (121, 18766), (125, 18790), (130, 18808), (132, 18814),

Gene: Lulumae_24 Start: 18378, Stop: 18800, Start Num: 43

Candidate Starts for Lulumae_24:

(29, 18312), (Start: 43 @18378 has 254 MA's), (Start: 72 @18501 has 1 MA's), (Start: 73 @18507 has 1 MA's), (74, 18513), (88, 18576), (94, 18618), (113, 18696), (121, 18744), (125, 18768), (130, 18786), (132, 18792),

Gene: Lulwa_25 Start: 18665, Stop: 19087, Start Num: 43

Candidate Starts for Lulwa_25:

(29, 18599), (Start: 43 @18665 has 254 MA's), (Start: 72 @18788 has 1 MA's), (Start: 73 @18794 has 1 MA's), (74, 18800), (88, 18863), (94, 18905), (113, 18983), (121, 19031), (125, 19055), (130, 19073), (132, 19079),

Gene: Lumine_24 Start: 18374, Stop: 18796, Start Num: 43

Candidate Starts for Lumine_24:

(29, 18308), (Start: 43 @18374 has 254 MA's), (Start: 72 @18497 has 1 MA's), (Start: 73 @18503 has 1 MA's), (74, 18509), (88, 18572), (94, 18614), (113, 18692), (121, 18740), (125, 18764), (130, 18782), (132, 18788),

Gene: MRabcd_24 Start: 18379, Stop: 18801, Start Num: 43

Candidate Starts for MRabcd_24:

(29, 18313), (Start: 43 @18379 has 254 MA's), (Start: 72 @18502 has 1 MA's), (Start: 73 @18508 has 1 MA's), (74, 18514), (88, 18577), (94, 18619), (102, 18670), (113, 18697), (121, 18745), (125, 18769), (130, 18787), (132, 18793),

Gene: Mag7_24 Start: 18254, Stop: 18676, Start Num: 42

Candidate Starts for Mag7_24:

(Start: 42 @18254 has 66 MA's), (66, 18326), (Start: 72 @18377 has 1 MA's), (Start: 73 @18383 has 1 MA's), (74, 18389), (88, 18452), (94, 18494), (113, 18572), (121, 18620), (125, 18644), (130, 18662), (132, 18668),

Gene: Magic8_25 Start: 18692, Stop: 19114, Start Num: 42

Candidate Starts for Magic8_25:

(Start: 42 @18692 has 66 MA's), (66, 18764), (Start: 72 @18815 has 1 MA's), (Start: 73 @18821 has 1 MA's), (74, 18827), (88, 18890), (94, 18932), (113, 19010), (121, 19058), (125, 19082), (130, 19100), (132, 19106),

Gene: Magpie_22 Start: 19156, Stop: 19569, Start Num: 50

Candidate Starts for Magpie_22:

(Start: 50 @19156 has 85 MA's), (Start: 72 @19270 has 1 MA's), (Start: 73 @19276 has 1 MA's), (74, 19282), (79, 19318), (90, 19357), (93, 19369), (94, 19387), (113, 19465), (124, 19534), (125, 19537), (132, 19561),

Gene: Makar_54 Start: 29466, Stop: 29900, Start Num: 41

Candidate Starts for Makar_54:

(Start: 41 @29466 has 5 MA's), (65, 29538), (69, 29553), (Start: 72 @29592 has 1 MA's), (86, 29664), (88, 29670), (94, 29712), (96, 29736), (101, 29760), (113, 29790), (116, 29805),

Gene: MakoManhole_24 Start: 18622, Stop: 19032, Start Num: 45

Candidate Starts for MakoManhole_24:

(Start: 45 @18622 has 19 MA's), (78, 18784), (81, 18796), (94, 18862), (96, 18886), (107, 18925), (113, 18940),

Gene: Mana_24 Start: 18381, Stop: 18803, Start Num: 43

Candidate Starts for Mana_24:

(29, 18315), (Start: 43 @18381 has 254 MA's), (Start: 72 @18504 has 1 MA's), (Start: 73 @18510 has 1 MA's), (74, 18516), (88, 18579), (94, 18621), (102, 18672), (113, 18699), (121, 18747), (125, 18771), (130, 18789), (132, 18795),

Gene: Manad_24 Start: 18231, Stop: 18653, Start Num: 43

Candidate Starts for Manad_24:

(29, 18165), (Start: 43 @18231 has 254 MA's), (Start: 72 @18354 has 1 MA's), (Start: 73 @18360 has 1 MA's), (74, 18366), (88, 18429), (94, 18471), (113, 18549), (121, 18597), (125, 18621), (130, 18639), (132, 18645),

Gene: Marcie_37 Start: 21635, Stop: 22030, Start Num: 50

Candidate Starts for Marcie_37:

(Start: 50 @21635 has 85 MA's), (Start: 57 @21677 has 1 MA's), (91, 21845), (111, 21935), (131, 22022),

Gene: Mariokart_22 Start: 17119, Stop: 17532, Start Num: 45

Candidate Starts for Mariokart_22:

(1, 16399), (2, 16444), (3, 16510), (4, 16582), (5, 16648), (25, 17020), (Start: 37 @17098 has 1 MA's), (Start: 45 @17119 has 19 MA's), (68, 17200), (70, 17209), (Start: 73 @17245 has 1 MA's), (74, 17251), (84, 17299), (94, 17359),

Gene: Maru_24 Start: 18380, Stop: 18802, Start Num: 43

Candidate Starts for Maru_24:

(29, 18314), (Start: 43 @18380 has 254 MA's), (Start: 72 @18503 has 1 MA's), (Start: 73 @18509 has 1 MA's), (74, 18515), (88, 18578), (94, 18620), (113, 18698), (121, 18746), (125, 18770), (130, 18788),

(132, 18794),

Gene: Mashley_31 Start: 22162, Stop: 22575, Start Num: 50

Candidate Starts for Mashley_31:

(30, 22105), (Start: 50 @22162 has 85 MA's), (69, 22234), (79, 22321), (100, 22438), (106, 22453),

Gene: Maskar_24 Start: 18226, Stop: 18648, Start Num: 42

Candidate Starts for Maskar_24:

(Start: 42 @18226 has 66 MA's), (Start: 72 @18349 has 1 MA's), (Start: 73 @18355 has 1 MA's), (74, 18361), (88, 18424), (94, 18466), (113, 18544), (121, 18592), (125, 18616), (130, 18634), (132, 18640),

Gene: MasterPo_27 Start: 20834, Stop: 21262, Start Num: 43

Candidate Starts for MasterPo_27:

(35, 20807), (Start: 43 @20834 has 254 MA's), (52, 20849), (Start: 73 @20966 has 1 MA's), (74, 20972), (77, 20999), (84, 21020), (88, 21038), (113, 21158), (115, 21164), (124, 21227), (132, 21254),

Gene: Matalotodo_25 Start: 18673, Stop: 19095, Start Num: 43

Candidate Starts for Matalotodo_25:

(29, 18607), (Start: 43 @18673 has 254 MA's), (Start: 72 @18796 has 1 MA's), (Start: 73 @18802 has 1 MA's), (74, 18808), (88, 18871), (94, 18913), (113, 18991), (121, 19039), (125, 19063), (130, 19081), (132, 19087),

Gene: McCrothy_30 Start: 23959, Stop: 24393, Start Num: 53

Candidate Starts for McCrothy_30:

(40, 23920), (Start: 53 @23959 has 103 MA's), (71, 24043), (98, 24220), (102, 24241), (120, 24313), (132, 24364),

Gene: McKinley_32 Start: 24183, Stop: 24617, Start Num: 53

Candidate Starts for McKinley_32:

(40, 24153), (Start: 53 @24183 has 103 MA's), (71, 24267), (82, 24342), (89, 24366), (98, 24444), (120, 24537), (132, 24588),

Gene: Mcshane_24 Start: 18376, Stop: 18798, Start Num: 43

Candidate Starts for Mcshane_24:

(29, 18310), (Start: 43 @18376 has 254 MA's), (Start: 72 @18499 has 1 MA's), (Start: 73 @18505 has 1 MA's), (74, 18511), (88, 18574), (94, 18616), (113, 18694), (121, 18742), (125, 18766), (130, 18784), (132, 18790),

Gene: Mecca_24 Start: 18373, Stop: 18795, Start Num: 43

Candidate Starts for Mecca_24:

(29, 18307), (Start: 43 @18373 has 254 MA's), (Start: 72 @18496 has 1 MA's), (Start: 73 @18502 has 1 MA's), (74, 18508), (88, 18571), (94, 18613), (113, 18691), (121, 18739), (125, 18763), (130, 18781), (132, 18787),

Gene: Megabear_19 Start: 18137, Stop: 18547, Start Num: 50

Candidate Starts for Megabear_19:

(Start: 50 @18137 has 85 MA's), (68, 18212), (Start: 73 @18257 has 1 MA's), (74, 18263), (81, 18305), (88, 18329), (92, 18350), (112, 18452), (121, 18497),

Gene: Megamind20_25 Start: 18394, Stop: 18816, Start Num: 43

Candidate Starts for Megamind20_25:

(29, 18328), (Start: 43 @18394 has 254 MA's), (Start: 72 @18517 has 1 MA's), (Start: 73 @18523 has 1 MA's), (74, 18529), (88, 18592), (94, 18634), (113, 18712), (121, 18760), (125, 18784), (130, 18802), (132, 18808),

Gene: Megatron_25 Start: 18677, Stop: 19099, Start Num: 43

Candidate Starts for Megatron_25:

(29, 18611), (Start: 43 @18677 has 254 MA's), (Start: 72 @18800 has 1 MA's), (Start: 73 @18806 has 1 MA's), (74, 18812), (88, 18875), (94, 18917), (102, 18968), (113, 18995), (121, 19043), (125, 19067), (130, 19085), (132, 19091),

Gene: MelBins_29 Start: 21614, Stop: 22045, Start Num: 53

Candidate Starts for MelBins_29:

(15, 21422), (Start: 41 @21587 has 5 MA's), (Start: 53 @21614 has 103 MA's), (71, 21698), (88, 21794), (98, 21875), (99, 21881), (101, 21893), (119, 21953), (122, 21977), (131, 22016), (132, 22019),

Gene: Melc17_25 Start: 18668, Stop: 19090, Start Num: 42

Candidate Starts for Melc17_25:

(Start: 42 @18668 has 66 MA's), (Start: 72 @18791 has 1 MA's), (Start: 73 @18797 has 1 MA's), (74, 18803), (88, 18866), (94, 18908), (113, 18986), (121, 19034), (125, 19058), (130, 19076), (132, 19082),

Gene: MelsMeow_24 Start: 18254, Stop: 18676, Start Num: 42

Candidate Starts for MelsMeow_24:

(Start: 42 @18254 has 66 MA's), (66, 18326), (Start: 72 @18377 has 1 MA's), (Start: 73 @18383 has 1 MA's), (74, 18389), (88, 18452), (94, 18494), (113, 18572), (121, 18620), (125, 18644), (130, 18662), (132, 18668),

Gene: Mentos_38 Start: 23249, Stop: 23662, Start Num: 50

Candidate Starts for Mentos_38:

(30, 23192), (Start: 50 @23249 has 85 MA's), (79, 23408), (100, 23525), (106, 23540),

Gene: Mesh1_25 Start: 18685, Stop: 19107, Start Num: 43

Candidate Starts for Mesh1_25:

(29, 18619), (Start: 43 @18685 has 254 MA's), (Start: 72 @18808 has 1 MA's), (Start: 73 @18814 has 1 MA's), (74, 18820), (88, 18883), (94, 18925), (113, 19003), (121, 19051), (125, 19075), (130, 19093), (132, 19099),

Gene: Mesmerelda_24 Start: 18379, Stop: 18801, Start Num: 43

Candidate Starts for Mesmerelda_24:

(29, 18313), (Start: 43 @18379 has 254 MA's), (Start: 72 @18502 has 1 MA's), (Start: 73 @18508 has 1 MA's), (74, 18514), (88, 18577), (94, 18619), (113, 18697), (121, 18745), (125, 18769), (130, 18787), (132, 18793),

Gene: MichaelPhcott_24 Start: 18254, Stop: 18676, Start Num: 42

Candidate Starts for MichaelPhcott_24:

(Start: 42 @18254 has 66 MA's), (66, 18326), (Start: 72 @18377 has 1 MA's), (Start: 73 @18383 has 1 MA's), (74, 18389), (88, 18452), (94, 18494), (113, 18572), (121, 18620), (125, 18644), (130, 18662), (132, 18668),

Gene: Mikota_25 Start: 18661, Stop: 19083, Start Num: 43

Candidate Starts for Mikota_25:

(29, 18595), (Start: 43 @18661 has 254 MA's), (Start: 72 @18784 has 1 MA's), (Start: 73 @18790 has 1 MA's), (74, 18796), (88, 18859), (94, 18901), (113, 18979), (121, 19027), (125, 19051), (130, 19069), (132, 19075),

Gene: Mila11_36 Start: 23134, Stop: 23547, Start Num: 50

Candidate Starts for Mila11_36:

(30, 23077), (Start: 50 @23134 has 85 MA's), (79, 23293), (100, 23410), (106, 23425),

Gene: MiniBoss_25 Start: 18664, Stop: 19086, Start Num: 43

Candidate Starts for MiniBoss_25:

(29, 18598), (Start: 43 @18664 has 254 MA's), (Start: 72 @18787 has 1 MA's), (Start: 73 @18793 has 1 MA's), (74, 18799), (88, 18862), (94, 18904), (113, 18982), (121, 19030), (125, 19054), (130, 19072), (132, 19078),

Gene: MitKao_25 Start: 18382, Stop: 18804, Start Num: 43

Candidate Starts for MitKao_25:

(29, 18316), (Start: 43 @18382 has 254 MA's), (Start: 72 @18505 has 1 MA's), (Start: 73 @18511 has 1 MA's), (74, 18517), (88, 18580), (94, 18622), (113, 18700), (121, 18748), (125, 18772), (130, 18790), (132, 18796),

Gene: Mithril_23 Start: 19337, Stop: 19750, Start Num: 50

Candidate Starts for Mithril_23:

(Start: 50 @19337 has 85 MA's), (Start: 72 @19451 has 1 MA's), (Start: 73 @19457 has 1 MA's), (74, 19463), (79, 19499), (90, 19538), (93, 19550), (94, 19568), (113, 19646), (124, 19715), (125, 19718), (132, 19742),

Gene: MoontowerMania_29 Start: 22994, Stop: 23428, Start Num: 53

Candidate Starts for MoontowerMania_29:

(19, 22829), (40, 22964), (Start: 53 @22994 has 103 MA's), (71, 23078), (82, 23153), (98, 23255), (102, 23276), (120, 23348), (132, 23399),

Gene: Morgushi_25 Start: 18387, Stop: 18809, Start Num: 43

Candidate Starts for Morgushi_25:

(29, 18321), (Start: 43 @18387 has 254 MA's), (Start: 72 @18510 has 1 MA's), (Start: 73 @18516 has 1 MA's), (74, 18522), (88, 18585), (94, 18627), (113, 18705), (121, 18753), (125, 18777), (130, 18795), (132, 18801),

Gene: MorillMayhem_32 Start: 22160, Stop: 22564, Start Num: 50

Candidate Starts for MorillMayhem_32:

(30, 22103), (Start: 50 @22160 has 85 MA's), (56, 22196), (92, 22370), (94, 22391), (103, 22436), (106, 22445), (131, 22550), (134, 22559),

Gene: Morty_25 Start: 18686, Stop: 19108, Start Num: 43

Candidate Starts for Morty_25:

(29, 18620), (Start: 43 @18686 has 254 MA's), (Start: 72 @18809 has 1 MA's), (Start: 73 @18815 has 1 MA's), (74, 18821), (88, 18884), (94, 18926), (102, 18977), (113, 19004), (121, 19052), (125, 19076), (130, 19094), (132, 19100),

Gene: Mosaic_24 Start: 18388, Stop: 18810, Start Num: 43

Candidate Starts for Mosaic_24:

(29, 18322), (Start: 43 @18388 has 254 MA's), (Start: 72 @18511 has 1 MA's), (Start: 73 @18517 has 1 MA's), (74, 18523), (88, 18586), (94, 18628), (113, 18706), (121, 18754), (125, 18778), (130, 18796), (132, 18802),

Gene: MossRose_24 Start: 18601, Stop: 19011, Start Num: 45

Candidate Starts for MossRose_24:

(Start: 45 @18601 has 19 MA's), (78, 18763), (81, 18775), (94, 18841), (96, 18865), (107, 18904), (113, 18919), (125, 18991),

Gene: MrPhizzler_25 Start: 18387, Stop: 18809, Start Num: 42

Candidate Starts for MrPhizzler_25:

(Start: 42 @18387 has 66 MA's), (Start: 72 @18510 has 1 MA's), (Start: 73 @18516 has 1 MA's), (74, 18522), (88, 18585), (94, 18627), (113, 18705), (121, 18753), (125, 18777), (130, 18795), (132, 18801),

Gene: Mudslide_23 Start: 19584, Stop: 19997, Start Num: 50

Candidate Starts for Mudslide_23:

(Start: 50 @19584 has 85 MA's), (Start: 72 @19698 has 1 MA's), (Start: 73 @19704 has 1 MA's), (74, 19710), (79, 19746), (90, 19785), (93, 19797), (94, 19815), (113, 19893), (116, 19908), (124, 19962), (125, 19965), (132, 19989),

Gene: Mulan_24 Start: 18382, Stop: 18804, Start Num: 43

Candidate Starts for Mulan_24:

(29, 18316), (Start: 43 @18382 has 254 MA's), (Start: 72 @18505 has 1 MA's), (Start: 73 @18511 has 1 MA's), (74, 18517), (88, 18580), (94, 18622), (113, 18700), (121, 18748), (125, 18772), (130, 18790), (132, 18796),

Gene: Murdoc_25 Start: 18675, Stop: 19097, Start Num: 43

Candidate Starts for Murdoc_25:

(29, 18609), (Start: 43 @18675 has 254 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: Mutante_24 Start: 18385, Stop: 18807, Start Num: 43

Candidate Starts for Mutante_24:

(29, 18319), (Start: 43 @18385 has 254 MA's), (Start: 72 @18508 has 1 MA's), (Start: 73 @18514 has 1 MA's), (74, 18520), (88, 18583), (94, 18625), (113, 18703), (121, 18751), (125, 18775), (130, 18793), (132, 18799),

Gene: Mutzi_28 Start: 18027, Stop: 18470, Start Num: 53

Candidate Starts for Mutzi_28:

(13, 17811), (Start: 53 @18027 has 103 MA's), (132, 18444),

Gene: Mysterious_25 Start: 19640, Stop: 20056, Start Num: 49

Candidate Starts for Mysterious_25:

(Start: 49 @19640 has 27 MA's), (63, 19700), (Start: 73 @19763 has 1 MA's), (74, 19769), (94, 19874), (97, 19904), (113, 19952),

Gene: Nacho_0025 Start: 18674, Stop: 19096, Start Num: 43

Candidate Starts for Nacho_0025:

(29, 18608), (Start: 43 @18674 has 254 MA's), (Start: 72 @18797 has 1 MA's), (Start: 73 @18803 has 1 MA's), (74, 18809), (88, 18872), (94, 18914), (113, 18992), (121, 19040), (125, 19064), (130, 19082), (132, 19088),

Gene: Namago_33 Start: 21729, Stop: 22142, Start Num: 50

Candidate Starts for Namago_33:

(30, 21672), (Start: 50 @21729 has 85 MA's), (79, 21888), (100, 22005), (106, 22020),

Gene: Nanao_22 Start: 18303, Stop: 18716, Start Num: 50

Candidate Starts for Nanao_22:

(Start: 50 @18303 has 85 MA's), (Start: 72 @18417 has 1 MA's), (Start: 73 @18423 has 1 MA's), (74, 18429), (79, 18465), (88, 18492), (90, 18504), (93, 18516), (94, 18534), (113, 18612), (124, 18681), (132, 18708),

Gene: Nangang_25 Start: 19342, Stop: 19758, Start Num: 49

Candidate Starts for Nangang_25:

(Start: 49 @19342 has 27 MA's), (88, 19534), (94, 19576), (102, 19627), (133, 19753),

Gene: Nathan_25 Start: 18704, Stop: 19126, Start Num: 42

Candidate Starts for Nathan_25:

(Start: 42 @18704 has 66 MA's), (66, 18776), (Start: 72 @18827 has 1 MA's), (Start: 73 @18833 has 1 MA's), (74, 18839), (88, 18902), (94, 18944), (113, 19022), (121, 19070), (125, 19094), (130, 19112), (132, 19118),

Gene: Natkenzie_30 Start: 22964, Stop: 23395, Start Num: 53

Candidate Starts for Natkenzie_30:

(30, 22904), (Start: 41 @22937 has 5 MA's), (Start: 53 @22964 has 103 MA's), (75, 23093), (82, 23123), (98, 23225), (99, 23231), (102, 23246), (119, 23303), (120, 23318), (131, 23366), (132, 23369),

Gene: Nehemiah_24 Start: 19640, Stop: 20056, Start Num: 49

Candidate Starts for Nehemiah_24:

(Start: 49 @19640 has 27 MA's), (63, 19700), (Start: 73 @19763 has 1 MA's), (74, 19769), (94, 19874), (97, 19904), (113, 19952),

Gene: Newman_25 Start: 18674, Stop: 19096, Start Num: 43

Candidate Starts for Newman_25:

(29, 18608), (Start: 43 @18674 has 254 MA's), (Start: 72 @18797 has 1 MA's), (Start: 73 @18803 has 1 MA's), (74, 18809), (88, 18872), (94, 18914), (113, 18992), (121, 19040), (125, 19064), (130, 19082), (132, 19088),

Gene: Nicole21_25 Start: 18666, Stop: 19088, Start Num: 43

Candidate Starts for Nicole21_25:

(29, 18600), (Start: 43 @18666 has 254 MA's), (Start: 72 @18789 has 1 MA's), (Start: 73 @18795 has 1 MA's), (74, 18801), (88, 18864), (94, 18906), (113, 18984), (121, 19032), (125, 19056), (130, 19074), (132, 19080),

Gene: Nigel_21 Start: 18187, Stop: 18600, Start Num: 50

Candidate Starts for Nigel_21:

(Start: 50 @18187 has 85 MA's), (74, 18313), (88, 18376), (90, 18388), (94, 18418), (132, 18592),

Gene: Nike_33 Start: 22681, Stop: 23094, Start Num: 50

Candidate Starts for Nike_33:

(30, 22624), (Start: 50 @22681 has 85 MA's), (79, 22840), (100, 22957), (106, 22972),

Gene: Nordenberg_24 Start: 22353, Stop: 22787, Start Num: 53

Candidate Starts for Nordenberg_24:

(40, 22323), (Start: 53 @22353 has 103 MA's), (71, 22437), (82, 22512), (89, 22536), (98, 22614), (120, 22707), (132, 22758),

Gene: Nubi_26 Start: 17592, Stop: 18035, Start Num: 53

Candidate Starts for Nubi_26:

(Start: 53 @17592 has 103 MA's), (98, 17853), (132, 18009),

Gene: Numberten_25 Start: 18679, Stop: 19101, Start Num: 43

Candidate Starts for Numberten_25:

(29, 18613), (Start: 43 @18679 has 254 MA's), (Start: 72 @18802 has 1 MA's), (Start: 73 @18808 has 1 MA's), (74, 18814), (88, 18877), (94, 18919), (113, 18997), (121, 19045), (125, 19069), (130, 19087), (132, 19093),

Gene: Nyala_24 Start: 18377, Stop: 18799, Start Num: 43

Candidate Starts for Nyala_24:

(29, 18311), (Start: 43 @18377 has 254 MA's), (Start: 72 @18500 has 1 MA's), (Start: 73 @18506 has 1 MA's), (74, 18512), (88, 18575), (94, 18617), (113, 18695), (121, 18743), (125, 18767), (130, 18785), (132, 18791),

Gene: OSmaximus_25 Start: 18703, Stop: 19125, Start Num: 42

Candidate Starts for OSmaximus_25:

(Start: 42 @18703 has 66 MA's), (66, 18775), (Start: 72 @18826 has 1 MA's), (Start: 73 @18832 has 1 MA's), (74, 18838), (88, 18901), (94, 18943), (113, 19021), (121, 19069), (125, 19093), (130, 19111), (132, 19117),

Gene: Olak_24 Start: 18378, Stop: 18800, Start Num: 43

Candidate Starts for Olak_24:

(29, 18312), (Start: 43 @18378 has 254 MA's), (Start: 72 @18501 has 1 MA's), (Start: 73 @18507 has 1 MA's), (74, 18513), (88, 18576), (94, 18618), (113, 18696), (121, 18744), (125, 18768), (130, 18786), (132, 18792),

Gene: Oline_24 Start: 18240, Stop: 18662, Start Num: 42

Candidate Starts for Oline_24:

(Start: 42 @18240 has 66 MA's), (Start: 72 @18363 has 1 MA's), (Start: 73 @18369 has 1 MA's), (74, 18375), (88, 18438), (94, 18480), (113, 18558), (121, 18606), (125, 18630), (130, 18648), (132, 18654),

Gene: Olive_25 Start: 18667, Stop: 19089, Start Num: 43

Candidate Starts for Olive_25:

(29, 18601), (Start: 43 @18667 has 254 MA's), (Start: 72 @18790 has 1 MA's), (Start: 73 @18796 has 1 MA's), (74, 18802), (88, 18865), (94, 18907), (113, 18985), (121, 19033), (125, 19057), (130, 19075), (132, 19081),

Gene: OliverWalter_25 Start: 18683, Stop: 19105, Start Num: 43

Candidate Starts for OliverWalter_25:

(29, 18617), (Start: 43 @18683 has 254 MA's), (Start: 72 @18806 has 1 MA's), (Start: 73 @18812 has 1 MA's), (74, 18818), (88, 18881), (94, 18923), (113, 19001), (121, 19049), (125, 19073), (130, 19091), (132, 19097),

Gene: Omniscient_25 Start: 18686, Stop: 19108, Start Num: 43

Candidate Starts for Omniscient_25:

(29, 18620), (Start: 43 @18686 has 254 MA's), (Start: 72 @18809 has 1 MA's), (Start: 73 @18815 has 1 MA's), (74, 18821), (88, 18884), (94, 18926), (113, 19004), (121, 19052), (125, 19076), (130, 19094), (132, 19100),

Gene: OneBrain_25 Start: 18379, Stop: 18801, Start Num: 43

Candidate Starts for OneBrain_25:

(29, 18313), (Start: 43 @18379 has 254 MA's), (Start: 72 @18502 has 1 MA's), (Start: 73 @18508 has 1 MA's), (74, 18514), (88, 18577), (94, 18619), (113, 18697), (121, 18745), (125, 18769), (130, 18787), (132, 18793),

Gene: OneinaGillian_32 Start: 20626, Stop: 21021, Start Num: 50

Candidate Starts for OneinaGillian_32:

(Start: 50 @20626 has 85 MA's), (62, 20677), (79, 20785), (94, 20860), (111, 20926), (131, 21013),

Gene: Oosterbaan_25 Start: 18678, Stop: 19100, Start Num: 43

Candidate Starts for Oosterbaan_25:

(29, 18612), (Start: 43 @18678 has 254 MA's), (Start: 72 @18801 has 1 MA's), (Start: 73 @18807 has 1 MA's), (74, 18813), (88, 18876), (94, 18918), (102, 18969), (113, 18996), (121, 19044), (125, 19068), (130, 19086), (132, 19092),

Gene: Opia_27 Start: 20834, Stop: 21262, Start Num: 43

Candidate Starts for Opia_27:

(35, 20807), (Start: 43 @20834 has 254 MA's), (52, 20849), (Start: 73 @20966 has 1 MA's), (74, 20972), (77, 20999), (84, 21020), (88, 21038), (113, 21158), (115, 21164), (124, 21227), (132, 21254),

Gene: Orfeu_24 Start: 18379, Stop: 18801, Start Num: 43

Candidate Starts for Orfeu_24:

(29, 18313), (Start: 43 @18379 has 254 MA's), (Start: 72 @18502 has 1 MA's), (Start: 73 @18508 has 1 MA's), (74, 18514), (88, 18577), (94, 18619), (113, 18697), (121, 18745), (125, 18769), (130, 18787), (132, 18793),

Gene: Orion_25 Start: 18675, Stop: 19097, Start Num: 43

Candidate Starts for Orion_25:

(29, 18609), (Start: 43 @18675 has 254 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (102, 18966), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: Orwigg_24 Start: 18372, Stop: 18794, Start Num: 43

Candidate Starts for Orwigg_24:

(29, 18306), (Start: 43 @18372 has 254 MA's), (Start: 72 @18495 has 1 MA's), (Start: 73 @18501 has 1 MA's), (74, 18507), (88, 18570), (94, 18612), (113, 18690), (121, 18738), (125, 18762), (130, 18780), (132, 18786),

Gene: PG1_25 Start: 18688, Stop: 19110, Start Num: 43

Candidate Starts for PG1_25:

(29, 18622), (Start: 43 @18688 has 254 MA's), (Start: 72 @18811 has 1 MA's), (Start: 73 @18817 has 1 MA's), (74, 18823), (88, 18886), (94, 18928), (102, 18979), (113, 19006), (121, 19054), (125, 19078), (130, 19096), (132, 19102),

Gene: PR_19 Start: 18164, Stop: 18574, Start Num: 50

Candidate Starts for PR_19:

(Start: 50 @18164 has 85 MA's), (68, 18239), (Start: 73 @18284 has 1 MA's), (74, 18290), (81, 18332), (88, 18356), (92, 18377), (112, 18479), (121, 18524),

Gene: Pacifista_24 Start: 18379, Stop: 18801, Start Num: 43

Candidate Starts for Pacifista_24:

(29, 18313), (Start: 43 @18379 has 254 MA's), (Start: 72 @18502 has 1 MA's), (Start: 73 @18508 has 1 MA's), (74, 18514), (88, 18577), (94, 18619), (113, 18697), (121, 18745), (125, 18769), (130, 18787), (132, 18793),

Gene: PallasAthena_25 Start: 18386, Stop: 18808, Start Num: 43

Candidate Starts for PallasAthena_25:

(29, 18320), (Start: 43 @18386 has 254 MA's), (Start: 72 @18509 has 1 MA's), (Start: 73 @18515 has 1 MA's), (74, 18521), (88, 18584), (94, 18626), (113, 18704), (121, 18752), (125, 18776), (130, 18794), (132, 18800),

Gene: Paries_32 Start: 23819, Stop: 24253, Start Num: 53

Candidate Starts for Paries_32:

(40, 23780), (Start: 53 @23819 has 103 MA's), (71, 23903), (82, 23978), (89, 24002), (98, 24080), (102, 24101), (120, 24173), (132, 24224),

Gene: PenguinLover67_27 Start: 20904, Stop: 21338, Start Num: 46

Candidate Starts for PenguinLover67_27:

(Start: 46 @20904 has 3 MA's), (64, 20970), (70, 20994), (Start: 73 @21030 has 1 MA's), (74, 21036), (79, 21072), (88, 21099), (124, 21288),

Gene: Pepe25_31 Start: 20844, Stop: 21239, Start Num: 50

Candidate Starts for Pepe25_31:

(Start: 50 @20844 has 85 MA's), (Start: 57 @20886 has 1 MA's), (62, 20895), (79, 21003), (111, 21144), (126, 21213), (131, 21231),

Gene: Phabia_33 Start: 22063, Stop: 22467, Start Num: 50

Candidate Starts for Phabia_33:

(30, 22006), (Start: 50 @22063 has 85 MA's), (56, 22099), (92, 22273), (94, 22294), (103, 22339), (106, 22348), (131, 22453), (134, 22462),

Gene: Phaedrus_24 Start: 19399, Stop: 19692, Start Num: 73

Candidate Starts for Phaedrus_24:

(51, 19279), (68, 19354), (Start: 73 @19399 has 1 MA's), (74, 19405), (96, 19537), (124, 19663),

Gene: Phamished_25 Start: 18683, Stop: 19105, Start Num: 43

Candidate Starts for Phamished_25:

(29, 18617), (Start: 43 @18683 has 254 MA's), (Start: 72 @18806 has 1 MA's), (Start: 73 @18812 has 1 MA's), (74, 18818), (88, 18881), (94, 18923), (113, 19001), (121, 19049), (125, 19073), (130, 19091), (132, 19097),

Gene: Phantasmagoria_27 Start: 20830, Stop: 21258, Start Num: 43

Candidate Starts for Phantasmagoria_27:

(35, 20803), (Start: 43 @20830 has 254 MA's), (52, 20845), (Start: 73 @20962 has 1 MA's), (74, 20968), (77, 20995), (84, 21016), (88, 21034), (113, 21154), (115, 21160), (124, 21223), (132, 21250),

Gene: Phareon_25 Start: 18383, Stop: 18805, Start Num: 43

Candidate Starts for Phareon_25:

(29, 18317), (Start: 43 @18383 has 254 MA's), (Start: 72 @18506 has 1 MA's), (Start: 73 @18512 has 1 MA's), (74, 18518), (88, 18581), (94, 18623), (113, 18701), (121, 18749), (125, 18773), (130, 18791), (132, 18797),

Gene: PhatCats2014_25 Start: 18693, Stop: 19115, Start Num: 43

Candidate Starts for PhatCats2014_25:

(29, 18627), (Start: 43 @18693 has 254 MA's), (Start: 72 @18816 has 1 MA's), (Start: 73 @18822 has 1 MA's), (74, 18828), (88, 18891), (94, 18933), (113, 19011), (121, 19059), (125, 19083), (130, 19101), (132, 19107),

Gene: PhatLouie_25 Start: 18675, Stop: 19097, Start Num: 42

Candidate Starts for PhatLouie_25:

(Start: 42 @18675 has 66 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: Phauci_21 Start: 17995, Stop: 18426, Start Num: 53

Candidate Starts for Phauci_21:

(15, 17803), (Start: 41 @17968 has 5 MA's), (Start: 53 @17995 has 103 MA's), (71, 18079), (88, 18175), (98, 18256), (99, 18262), (101, 18274), (119, 18334), (122, 18358), (131, 18397), (132, 18400),

Gene: Phelemich_25 Start: 19636, Stop: 20052, Start Num: 49

Candidate Starts for Phelemich_25:

(Start: 49 @19636 has 27 MA's), (63, 19696), (Start: 73 @19759 has 1 MA's), (74, 19765), (94, 19870), (97, 19900), (113, 19948), (133, 20047),

Gene: PhenghisKhan_24 Start: 18254, Stop: 18676, Start Num: 42

Candidate Starts for PhenghisKhan_24:

(Start: 42 @18254 has 66 MA's), (66, 18326), (Start: 72 @18377 has 1 MA's), (Start: 73 @18383 has 1 MA's), (74, 18389), (88, 18452), (94, 18494), (113, 18572), (121, 18620), (125, 18644), (130, 18662), (132, 18668),

Gene: Pherdinand_25 Start: 18683, Stop: 19105, Start Num: 43

Candidate Starts for Pherdinand_25:

(29, 18617), (Start: 43 @18683 has 254 MA's), (Start: 72 @18806 has 1 MA's), (Start: 73 @18812 has 1 MA's), (74, 18818), (88, 18881), (94, 18923), (113, 19001), (121, 19049), (125, 19073), (130, 19091), (132, 19097),

Gene: Phergie_24 Start: 18248, Stop: 18670, Start Num: 42

Candidate Starts for Phergie_24:

(Start: 42 @18248 has 66 MA's), (66, 18320), (Start: 72 @18371 has 1 MA's), (Start: 73 @18377 has 1 MA's), (74, 18383), (88, 18446), (94, 18488), (113, 18566), (121, 18614), (125, 18638), (130, 18656), (132, 18662),

Gene: Phinally_28 Start: 21403, Stop: 21834, Start Num: 53

Candidate Starts for Phinally_28:

(12, 21175), (15, 21211), (Start: 41 @21376 has 5 MA's), (Start: 43 @21379 has 254 MA's), (Start: 53 @21403 has 103 MA's), (71, 21487), (88, 21583), (98, 21664), (99, 21670), (101, 21682), (119, 21742), (122, 21766), (131, 21805), (132, 21808),

Gene: Phinky_39 Start: 23231, Stop: 23650, Start Num: 50

Candidate Starts for Phinky_39:

(36, 23201), (Start: 50 @23231 has 85 MA's), (56, 23267), (59, 23276), (Start: 72 @23342 has 1 MA's), (94, 23465), (106, 23522), (134, 23645),

Gene: Phipps_25 Start: 18653, Stop: 19075, Start Num: 43

Candidate Starts for Phipps_25:

(29, 18587), (Start: 43 @18653 has 254 MA's), (Start: 72 @18776 has 1 MA's), (Start: 73 @18782 has 1 MA's), (74, 18788), (88, 18851), (94, 18893), (113, 18971), (121, 19019), (125, 19043), (130, 19061), (132, 19067),

Gene: Phleuron_24 Start: 18254, Stop: 18676, Start Num: 42

Candidate Starts for Phleuron_24:

(Start: 42 @18254 has 66 MA's), (66, 18326), (Start: 72 @18377 has 1 MA's), (Start: 73 @18383 has 1 MA's), (74, 18389), (88, 18452), (94, 18494), (113, 18572), (121, 18620), (125, 18644), (130, 18662), (132, 18668),

Gene: Phlop_26 Start: 17656, Stop: 18099, Start Num: 53

Candidate Starts for Phlop_26:

(Start: 53 @17656 has 103 MA's), (98, 17917), (132, 18073),

Gene: PhrankReynolds_24 Start: 18254, Stop: 18676, Start Num: 42

Candidate Starts for PhrankReynolds_24:

(Start: 42 @18254 has 66 MA's), (66, 18326), (Start: 72 @18377 has 1 MA's), (Start: 73 @18383 has 1 MA's), (74, 18389), (88, 18452), (94, 18494), (113, 18572), (121, 18620), (125, 18644), (130, 18662), (132, 18668),

Gene: PhrodoBaggins_24 Start: 18671, Stop: 19093, Start Num: 43

Candidate Starts for PhrodoBaggins_24:

(29, 18605), (Start: 43 @18671 has 254 MA's), (Start: 72 @18794 has 1 MA's), (Start: 73 @18800 has 1 MA's), (74, 18806), (88, 18869), (94, 18911), (113, 18989), (121, 19037), (125, 19061), (130, 19079), (132, 19085),

Gene: Phunky_25 Start: 18677, Stop: 19099, Start Num: 43

Candidate Starts for Phunky_25:

(29, 18611), (Start: 43 @18677 has 254 MA's), (Start: 72 @18800 has 1 MA's), (Start: 73 @18806 has 1 MA's), (74, 18812), (88, 18875), (94, 18917), (113, 18995), (121, 19043), (125, 19067), (130, 19085), (132, 19091),

Gene: Piglet_0024 Start: 18677, Stop: 19099, Start Num: 43

Candidate Starts for Piglet_0024:

(29, 18611), (Start: 43 @18677 has 254 MA's), (Start: 72 @18800 has 1 MA's), (Start: 73 @18806 has 1 MA's), (74, 18812), (88, 18875), (94, 18917), (113, 18995), (121, 19043), (125, 19067), (130, 19085), (132, 19091),

Gene: Pine5_25 Start: 19604, Stop: 20017, Start Num: 44

Candidate Starts for Pine5_25:

(44, 19604), (47, 19607), (Start: 72 @19727 has 1 MA's), (88, 19805), (127, 20009),

Gene: PinheadLarry_25 Start: 18394, Stop: 18816, Start Num: 43

Candidate Starts for PinheadLarry_25:

(29, 18328), (Start: 43 @18394 has 254 MA's), (Start: 72 @18517 has 1 MA's), (Start: 73 @18523 has 1 MA's), (74, 18529), (88, 18592), (94, 18634), (113, 18712), (121, 18760), (125, 18784), (130, 18802), (132, 18808),

Gene: PinkCoffee_28 Start: 18295, Stop: 18738, Start Num: 53

Candidate Starts for PinkCoffee_28:

(Start: 53 @18295 has 103 MA's), (98, 18556), (132, 18712),

Gene: Pinkman_24 Start: 18234, Stop: 18656, Start Num: 42

Candidate Starts for Pinkman_24:

(Start: 42 @18234 has 66 MA's), (Start: 72 @18357 has 1 MA's), (Start: 73 @18363 has 1 MA's), (74, 18369), (88, 18432), (94, 18474), (113, 18552), (121, 18600), (125, 18624), (130, 18642), (132, 18648),

Gene: Pipsqueak_25 Start: 18683, Stop: 19105, Start Num: 43

Candidate Starts for Pipsqueak_25:

(29, 18617), (Start: 43 @18683 has 254 MA's), (Start: 72 @18806 has 1 MA's), (Start: 73 @18812 has 1 MA's), (74, 18818), (88, 18881), (94, 18923), (102, 18974), (113, 19001), (121, 19049), (125, 19073), (130, 19091), (132, 19097),

Gene: Placalicious_24 Start: 18376, Stop: 18798, Start Num: 43

Candidate Starts for Placalicious_24:

(29, 18310), (Start: 43 @18376 has 254 MA's), (Start: 72 @18499 has 1 MA's), (Start: 73 @18505 has 1 MA's), (74, 18511), (88, 18574), (94, 18616), (102, 18667), (113, 18694), (121, 18742), (125, 18766), (130, 18784), (132, 18790),

Gene: Plata_25 Start: 18390, Stop: 18812, Start Num: 42

Candidate Starts for Plata_25:

(Start: 42 @18390 has 66 MA's), (Start: 72 @18513 has 1 MA's), (Start: 73 @18519 has 1 MA's), (74, 18525), (88, 18588), (94, 18630), (113, 18708), (121, 18756), (125, 18780), (130, 18798), (132, 18804),

Gene: Plmatters_25 Start: 18680, Stop: 19102, Start Num: 43

Candidate Starts for Plmatters_25:

(29, 18614), (Start: 43 @18680 has 254 MA's), (Start: 72 @18803 has 1 MA's), (Start: 73 @18809 has 1 MA's), (74, 18815), (88, 18878), (94, 18920), (113, 18998), (121, 19046), (125, 19070), (130, 19088), (132, 19094),

Gene: Podrick_25 Start: 18672, Stop: 19094, Start Num: 43

Candidate Starts for Podrick_25:

(29, 18606), (Start: 43 @18672 has 254 MA's), (Start: 72 @18795 has 1 MA's), (Start: 73 @18801 has 1 MA's), (74, 18807), (88, 18870), (94, 18912), (113, 18990), (121, 19038), (125, 19062), (130, 19080), (132, 19086),

Gene: Pops_25 Start: 18680, Stop: 19102, Start Num: 43

Candidate Starts for Pops_25:

(29, 18614), (Start: 43 @18680 has 254 MA's), (Start: 72 @18803 has 1 MA's), (Start: 73 @18809 has 1 MA's), (74, 18815), (88, 18878), (94, 18920), (113, 18998), (121, 19046), (125, 19070), (130, 19088), (132, 19094),

Gene: Portcullis_26 Start: 17599, Stop: 18042, Start Num: 53

Candidate Starts for Portcullis_26:

(Start: 53 @17599 has 103 MA's), (98, 17860), (132, 18016),

Gene: Poster_22 Start: 18304, Stop: 18717, Start Num: 50

Candidate Starts for Poster_22:

(Start: 50 @18304 has 85 MA's), (Start: 72 @18418 has 1 MA's), (Start: 73 @18424 has 1 MA's), (74, 18430), (79, 18466), (88, 18493), (90, 18505), (93, 18517), (94, 18535), (113, 18613), (124, 18682), (132, 18709),

Gene: Potter_24 Start: 18390, Stop: 18812, Start Num: 43

Candidate Starts for Potter_24:

(29, 18324), (Start: 43 @18390 has 254 MA's), (Start: 72 @18513 has 1 MA's), (Start: 73 @18519 has 1 MA's), (74, 18525), (88, 18588), (94, 18630), (102, 18681), (113, 18708), (121, 18756), (125, 18780), (130, 18798), (132, 18804),

Gene: Prickles_25 Start: 18669, Stop: 19091, Start Num: 43

Candidate Starts for Prickles_25:

(29, 18603), (Start: 43 @18669 has 254 MA's), (Start: 72 @18792 has 1 MA's), (Start: 73 @18798 has 1 MA's), (74, 18804), (88, 18867), (94, 18909), (113, 18987), (121, 19035), (125, 19059), (130, 19077), (132, 19083),

Gene: Prince_23 Start: 19496, Stop: 19909, Start Num: 50

Candidate Starts for Prince_23:

(Start: 50 @19496 has 85 MA's), (Start: 72 @19610 has 1 MA's), (Start: 73 @19616 has 1 MA's), (74, 19622), (79, 19658), (90, 19697), (93, 19709), (94, 19727), (113, 19805), (116, 19820), (124, 19874), (125, 19877), (132, 19901),

Gene: PrinceCharming_27 Start: 20950, Stop: 21378, Start Num: 43

Candidate Starts for PrinceCharming_27:

(35, 20923), (Start: 43 @20950 has 254 MA's), (52, 20965), (Start: 73 @21082 has 1 MA's), (74, 21088), (77, 21115), (84, 21136), (88, 21154), (113, 21274), (115, 21280), (124, 21343), (132, 21370),

Gene: ProfessorX_25 Start: 18667, Stop: 19089, Start Num: 43

Candidate Starts for ProfessorX_25:

(29, 18601), (Start: 43 @18667 has 254 MA's), (Start: 72 @18790 has 1 MA's), (Start: 73 @18796 has 1 MA's), (74, 18802), (88, 18865), (94, 18907), (113, 18985), (121, 19033), (125, 19057), (130, 19075), (132, 19081),

Gene: Puhltonio_25 Start: 18683, Stop: 19105, Start Num: 43

Candidate Starts for Puhltonio_25:

(29, 18617), (Start: 43 @18683 has 254 MA's), (Start: 72 @18806 has 1 MA's), (Start: 73 @18812 has 1 MA's), (74, 18818), (88, 18881), (94, 18923), (113, 19001), (121, 19049), (125, 19073), (130, 19091), (132, 19097),

Gene: PullumCavea_26 Start: 17656, Stop: 18099, Start Num: 53

Candidate Starts for PullumCavea_26:

(Start: 53 @17656 has 103 MA's), (98, 17917), (132, 18073),

Gene: Pumpkiney_31 Start: 20284, Stop: 20715, Start Num: 53

Candidate Starts for Pumpkiney_31:

(16, 20098), (23, 20158), (30, 20224), (Start: 41 @20257 has 5 MA's), (Start: 53 @20284 has 103 MA's), (75, 20413), (82, 20443), (98, 20545), (99, 20551), (102, 20566), (119, 20623), (120, 20638), (131, 20686), (132, 20689),

Gene: Purplicious_52 Start: 28781, Stop: 29206, Start Num: 41

Candidate Starts for Purplicious_52:

(Start: 41 @28781 has 5 MA's), (86, 28979), (96, 29051), (113, 29105), (116, 29120),

Gene: Quammi_31 Start: 21635, Stop: 22048, Start Num: 50

Candidate Starts for Quammi_31:

(30, 21578), (Start: 50 @21635 has 85 MA's), (56, 21671), (79, 21794), (100, 21911), (106, 21926),

Gene: QueenBeane_25 Start: 18675, Stop: 19097, Start Num: 43

Candidate Starts for QueenBeane_25:

(29, 18609), (Start: 43 @18675 has 254 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: QueenPie_22 Start: 19500, Stop: 19913, Start Num: 50

Candidate Starts for QueenPie_22:

(Start: 50 @19500 has 85 MA's), (Start: 73 @19620 has 1 MA's), (74, 19626), (79, 19662), (90, 19701), (93, 19713), (94, 19731), (113, 19809), (124, 19878), (132, 19905),

Gene: Quesadilla_26 Start: 20803, Stop: 21240, Start Num: 46

Candidate Starts for Quesadilla_26:

(Start: 46 @20803 has 3 MA's), (Start: 73 @20929 has 1 MA's), (74, 20935), (79, 20971), (88, 20998), (113, 21118), (118, 21148), (124, 21187),

Gene: Quisquilliae_25 Start: 18690, Stop: 19112, Start Num: 43

Candidate Starts for Quisquilliae_25:

(29, 18624), (Start: 43 @18690 has 254 MA's), (Start: 72 @18813 has 1 MA's), (Start: 73 @18819 has 1 MA's), (74, 18825), (88, 18888), (94, 18930), (113, 19008), (121, 19056), (125, 19080), (130, 19098), (132, 19104),

Gene: Qyrzula_25 Start: 20920, Stop: 21348, Start Num: 43

Candidate Starts for Qyrzula_25:

(35, 20893), (Start: 43 @20920 has 254 MA's), (52, 20935), (Start: 73 @21052 has 1 MA's), (74, 21058), (77, 21085), (84, 21106), (88, 21124), (113, 21244), (115, 21250), (124, 21313), (132, 21340),

Gene: RawrgerThat_23 Start: 19333, Stop: 19746, Start Num: 50

Candidate Starts for RawrgerThat_23:

(Start: 50 @19333 has 85 MA's), (Start: 72 @19447 has 1 MA's), (Start: 73 @19453 has 1 MA's), (74, 19459), (79, 19495), (90, 19534), (93, 19546), (94, 19564), (113, 19642), (116, 19657), (124, 19711), (125, 19714), (132, 19738),

Gene: Reccee_26 Start: 19570, Stop: 19986, Start Num: 49

Candidate Starts for Reccee_26:

(Start: 49 @19570 has 27 MA's), (63, 19630), (74, 19699), (94, 19804), (97, 19834), (133, 19981),

Gene: RedMaple_24 Start: 18686, Stop: 19108, Start Num: 43

Candidate Starts for RedMaple_24:

(29, 18620), (Start: 43 @18686 has 254 MA's), (Start: 72 @18809 has 1 MA's), (Start: 73 @18815 has 1 MA's), (74, 18821), (88, 18884), (94, 18926), (113, 19004), (121, 19052), (125, 19076), (130, 19094), (132, 19100),

Gene: RedRaider89_26 Start: 18906, Stop: 19328, Start Num: 43

Candidate Starts for RedRaider89_26:

(29, 18840), (Start: 43 @18906 has 254 MA's), (Start: 72 @19029 has 1 MA's), (Start: 73 @19035 has 1 MA's), (74, 19041), (88, 19104), (94, 19146), (113, 19224), (121, 19272), (125, 19296), (130, 19314), (132, 19320),

Gene: Renkei_22 Start: 18311, Stop: 18724, Start Num: 50

Candidate Starts for Renkei_22:

(Start: 50 @18311 has 85 MA's), (Start: 72 @18425 has 1 MA's), (Start: 73 @18431 has 1 MA's), (74, 18437), (79, 18473), (90, 18512), (93, 18524), (94, 18542), (113, 18620), (124, 18689), (132, 18716),

Gene: Reprobate_25 Start: 19641, Stop: 20057, Start Num: 49

Candidate Starts for Reprobate_25:

(Start: 49 @19641 has 27 MA's), (63, 19701), (Start: 73 @19764 has 1 MA's), (74, 19770), (94, 19875), (97, 19905), (113, 19953), (133, 20052),

Gene: Rhinoforte_27 Start: 20951, Stop: 21379, Start Num: 43

Candidate Starts for Rhinoforte_27:

(35, 20924), (Start: 43 @20951 has 254 MA's), (52, 20966), (Start: 73 @21083 has 1 MA's), (74, 21089), (77, 21116), (84, 21137), (88, 21155), (113, 21275), (115, 21281), (124, 21344), (132, 21371),

Gene: Ribeye_30 Start: 23007, Stop: 23441, Start Num: 49

Candidate Starts for Ribeye_30:

(Start: 49 @23007 has 27 MA's), (67, 23061), (71, 23091), (82, 23166), (98, 23268), (102, 23289), (120, 23361), (132, 23412),

Gene: Rich_24 Start: 19142, Stop: 19558, Start Num: 49

Candidate Starts for Rich_24:

(Start: 49 @19142 has 27 MA's), (Start: 72 @19259 has 1 MA's), (74, 19271), (88, 19334), (124, 19523), (133, 19553),

Gene: Ricotta_24 Start: 18398, Stop: 18820, Start Num: 43

Candidate Starts for Ricotta_24:

(29, 18332), (Start: 43 @18398 has 254 MA's), (Start: 72 @18521 has 1 MA's), (Start: 73 @18527 has 1 MA's), (74, 18533), (88, 18596), (94, 18638), (113, 18716), (121, 18764), (125, 18788), (130, 18806), (132, 18812),

Gene: Riggan_25 Start: 18658, Stop: 19080, Start Num: 43

Candidate Starts for Riggan_25:

(29, 18592), (Start: 43 @18658 has 254 MA's), (Start: 72 @18781 has 1 MA's), (Start: 73 @18787 has 1 MA's), (74, 18793), (88, 18856), (94, 18898), (113, 18976), (121, 19024), (125, 19048), (130, 19066), (132, 19072),

Gene: Rimu_25 Start: 18407, Stop: 18829, Start Num: 42

Candidate Starts for Rimu_25:

(Start: 42 @18407 has 66 MA's), (66, 18479), (Start: 72 @18530 has 1 MA's), (Start: 73 @18536 has 1 MA's), (74, 18542), (88, 18605), (94, 18647), (113, 18725), (121, 18773), (125, 18797), (130, 18815), (132, 18821),

Gene: Rinkes_28 Start: 21670, Stop: 22086, Start Num: 49

Candidate Starts for Rinkes_28:

(Start: 49 @21670 has 27 MA's), (Start: 73 @21793 has 1 MA's), (74, 21799), (79, 21835), (94, 21904), (113, 21982), (116, 21997), (124, 22051), (125, 22054), (132, 22078),

Gene: Rita130_25 Start: 19390, Stop: 19806, Start Num: 49

Candidate Starts for Rita130_25:

(Start: 49 @19390 has 27 MA's), (63, 19450), (74, 19519), (94, 19624), (97, 19654), (133, 19801),

Gene: RiverRaider_30 Start: 21439, Stop: 21873, Start Num: 53

Candidate Starts for RiverRaider_30:

(Start: 53 @21439 has 103 MA's), (71, 21523), (98, 21700), (102, 21721), (119, 21778), (120, 21793), (132, 21844),

Gene: Riverton_24 Start: 18682, Stop: 19104, Start Num: 43

Candidate Starts for Riverton_24:

(29, 18616), (Start: 43 @18682 has 254 MA's), (Start: 72 @18805 has 1 MA's), (Start: 73 @18811 has 1 MA's), (74, 18817), (88, 18880), (94, 18922), (113, 19000), (121, 19048), (125, 19072), (130, 19090), (132, 19096),

Gene: RoadKill_25 Start: 19107, Stop: 19538, Start Num: 53

Candidate Starts for RoadKill_25:

(17, 18933), (24, 18984), (Start: 53 @19107 has 103 MA's), (71, 19191), (82, 19266), (101, 19386), (107, 19401), (120, 19461), (128, 19500), (131, 19509), (132, 19512),

Gene: RobinRose_34 Start: 21130, Stop: 21525, Start Num: 50

Candidate Starts for RobinRose_34:

(Start: 50 @21130 has 85 MA's), (Start: 57 @21172 has 1 MA's), (62, 21181), (79, 21289), (111, 21430), (131, 21517),

Gene: Robyn_24 Start: 18249, Stop: 18671, Start Num: 43

Candidate Starts for Robyn_24:

(29, 18183), (Start: 43 @18249 has 254 MA's), (Start: 72 @18372 has 1 MA's), (Start: 73 @18378 has 1 MA's), (74, 18384), (88, 18447), (94, 18489), (113, 18567), (121, 18615), (125, 18639), (130, 18657), (132, 18663),

Gene: Rofo_30 Start: 23214, Stop: 23648, Start Num: 53

Candidate Starts for Rofo_30:

(40, 23184), (Start: 53 @23214 has 103 MA's), (71, 23298), (82, 23373), (89, 23397), (98, 23475), (120, 23568), (132, 23619),

Gene: RogerDodger_29 Start: 18449, Stop: 18892, Start Num: 53

Candidate Starts for RogerDodger_29:

(Start: 53 @18449 has 103 MA's), (98, 18710), (132, 18866),

Gene: Roliet_25 Start: 18674, Stop: 19096, Start Num: 43

Candidate Starts for Roliet_25:

(29, 18608), (Start: 43 @18674 has 254 MA's), (Start: 72 @18797 has 1 MA's), (Start: 73 @18803 has 1 MA's), (74, 18809), (88, 18872), (94, 18914), (113, 18992), (121, 19040), (125, 19064), (130, 19082), (132, 19088),

Gene: Romm_34 Start: 21130, Stop: 21525, Start Num: 50

Candidate Starts for Romm_34:

(Start: 50 @21130 has 85 MA's), (Start: 57 @21172 has 1 MA's), (62, 21181), (79, 21289), (111, 21430), (131, 21517),

Gene: Roscoe_26 Start: 18916, Stop: 19338, Start Num: 43

Candidate Starts for Roscoe_26:

(29, 18850), (Start: 43 @18916 has 254 MA's), (Start: 72 @19039 has 1 MA's), (Start: 73 @19045 has 1 MA's), (74, 19051), (88, 19114), (94, 19156), (113, 19234), (121, 19282), (125, 19306), (130, 19324), (132, 19330),

Gene: Rosebush_27 Start: 20951, Stop: 21379, Start Num: 43

Candidate Starts for Rosebush_27:

(35, 20924), (Start: 43 @20951 has 254 MA's), (52, 20966), (Start: 73 @21083 has 1 MA's), (74, 21089), (77, 21116), (84, 21137), (88, 21155), (113, 21275), (115, 21281), (124, 21344), (132, 21371),

Gene: Rowlf_29 Start: 21810, Stop: 22223, Start Num: 50

Candidate Starts for Rowlf_29:

(30, 21753), (Start: 50 @21810 has 85 MA's), (79, 21969), (100, 22086), (106, 22101),

Gene: Roy17_25 Start: 18378, Stop: 18800, Start Num: 43

Candidate Starts for Roy17_25:

(29, 18312), (Start: 43 @18378 has 254 MA's), (Start: 72 @18501 has 1 MA's), (Start: 73 @18507 has 1 MA's), (74, 18513), (88, 18576), (94, 18618), (113, 18696), (121, 18744), (125, 18768), (130, 18786), (132, 18792),

Gene: RubyRalph_35 Start: 21703, Stop: 22119, Start Num: 50

Candidate Starts for RubyRalph_35:

(22, 21580), (36, 21670), (Start: 50 @21703 has 85 MA's), (Start: 72 @21814 has 1 MA's), (93, 21919), (108, 22000), (110, 22003), (134, 22114),

Gene: Rudy_31 Start: 21668, Stop: 22081, Start Num: 50

Candidate Starts for Rudy_31:

(30, 21611), (39, 21641), (Start: 50 @21668 has 85 MA's), (56, 21704), (79, 21827), (100, 21944), (106, 21959),

Gene: SDcharge11_25 Start: 18656, Stop: 19078, Start Num: 43

Candidate Starts for SDcharge11_25:

(29, 18590), (Start: 43 @18656 has 254 MA's), (Start: 72 @18779 has 1 MA's), (Start: 73 @18785 has 1 MA's), (74, 18791), (88, 18854), (94, 18896), (113, 18974), (121, 19022), (125, 19046), (130, 19064), (132, 19070),

Gene: Sabella_27 Start: 20837, Stop: 21265, Start Num: 43

Candidate Starts for Sabella_27:

(35, 20810), (Start: 43 @20837 has 254 MA's), (52, 20852), (Start: 73 @20969 has 1 MA's), (74, 20975), (77, 21002), (84, 21023), (88, 21041), (113, 21161), (115, 21167), (124, 21230), (132, 21257),

Gene: SadLad_37 Start: 22646, Stop: 23062, Start Num: 50

Candidate Starts for SadLad_37:

(6, 22172), (7, 22178), (8, 22205), (11, 22295), (22, 22523), (36, 22613), (Start: 50 @22646 has 85 MA's), (Start: 72 @22757 has 1 MA's), (108, 22943), (110, 22946), (134, 23057),

Gene: Saguaro_26 Start: 20711, Stop: 21127, Start Num: 49

Candidate Starts for Saguaro_26:

(Start: 49 @20711 has 27 MA's), (Start: 73 @20834 has 1 MA's), (113, 21023), (116, 21038), (118, 21053),

Gene: SallyH_25 Start: 18688, Stop: 19110, Start Num: 43

Candidate Starts for SallyH_25:

(29, 18622), (Start: 43 @18688 has 254 MA's), (Start: 72 @18811 has 1 MA's), (Start: 73 @18817 has 1 MA's), (74, 18823), (88, 18886), (94, 18928), (113, 19006), (121, 19054), (125, 19078), (130, 19096), (132, 19102),

Gene: SallyK_34 Start: 22743, Stop: 23147, Start Num: 50

Candidate Starts for SallyK_34:

(Start: 50 @22743 has 85 MA's), (56, 22779), (92, 22953), (94, 22974), (103, 23019), (106, 23028), (131, 23133), (134, 23142),

Gene: Salvador_26 Start: 17570, Stop: 18013, Start Num: 53

Candidate Starts for Salvador_26:

(Start: 53 @17570 has 103 MA's), (98, 17831), (132, 17987),

Gene: Samaymay_25 Start: 18675, Stop: 19097, Start Num: 43

Candidate Starts for Samaymay_25:

(29, 18609), (Start: 43 @18675 has 254 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: Sampson_30 Start: 22909, Stop: 23340, Start Num: 53

Candidate Starts for Sampson_30:

(30, 22849), (Start: 41 @22882 has 5 MA's), (Start: 53 @22909 has 103 MA's), (75, 23038), (82, 23068), (98, 23170), (99, 23176), (102, 23191), (119, 23248), (120, 23263), (131, 23311), (132, 23314),

Gene: Sanjuju_28 Start: 23395, Stop: 23829, Start Num: 53

Candidate Starts for Sanjuju_28:

(40, 23365), (Start: 53 @23395 has 103 MA's), (71, 23479), (82, 23554), (89, 23578), (98, 23656), (102, 23677), (120, 23749), (132, 23800),

Gene: Saronaya_29 Start: 21853, Stop: 22287, Start Num: 53

Candidate Starts for Saronaya_29:

(Start: 50 @21844 has 85 MA's), (Start: 53 @21853 has 103 MA's), (71, 21937), (82, 22012), (98, 22114), (102, 22135), (119, 22192), (120, 22207), (132, 22258),

Gene: SassyCat97_24 Start: 18384, Stop: 18806, Start Num: 43

Candidate Starts for SassyCat97_24:

(29, 18318), (Start: 43 @18384 has 254 MA's), (Start: 72 @18507 has 1 MA's), (Start: 73 @18513 has 1 MA's), (74, 18519), (88, 18582), (94, 18624), (113, 18702), (121, 18750), (125, 18774), (130, 18792), (132, 18798),

Gene: Savbucketdawg_26 Start: 17351, Stop: 17794, Start Num: 53

Candidate Starts for Savbucketdawg_26:

(Start: 53 @17351 has 103 MA's), (98, 17612), (132, 17768),

Gene: Schadenfreude_24 Start: 18232, Stop: 18654, Start Num: 43

Candidate Starts for Schadenfreude_24:

(29, 18166), (Start: 43 @18232 has 254 MA's), (Start: 72 @18355 has 1 MA's), (Start: 73 @18361 has 1 MA's), (74, 18367), (88, 18430), (94, 18472), (113, 18550), (121, 18598), (125, 18622), (130, 18640), (132, 18646),

Gene: SchottB_28 Start: 22865, Stop: 23299, Start Num: 53

Candidate Starts for SchottB_28:

(Start: 50 @22856 has 85 MA's), (Start: 53 @22865 has 103 MA's), (71, 22949), (82, 23024), (98, 23126), (102, 23147), (119, 23204), (120, 23219), (132, 23270),

Gene: Schueller_24 Start: 18375, Stop: 18797, Start Num: 42

Candidate Starts for Schueller_24:

(Start: 42 @18375 has 66 MA's), (Start: 72 @18498 has 1 MA's), (Start: 73 @18504 has 1 MA's), (74, 18510), (88, 18573), (94, 18615), (113, 18693), (121, 18741), (125, 18765), (130, 18783), (132, 18789),

Gene: Scioto_30 Start: 22964, Stop: 23395, Start Num: 53

Candidate Starts for Scioto_30:

(30, 22904), (Start: 41 @22937 has 5 MA's), (Start: 53 @22964 has 103 MA's), (75, 23093), (82, 23123), (98, 23225), (99, 23231), (102, 23246), (119, 23303), (120, 23318), (131, 23366), (132, 23369),

Gene: Scoot17C_25 Start: 18677, Stop: 19099, Start Num: 43

Candidate Starts for Scoot17C_25:

(29, 18611), (Start: 43 @18677 has 254 MA's), (Start: 72 @18800 has 1 MA's), (Start: 73 @18806 has 1 MA's), (74, 18812), (88, 18875), (94, 18917), (102, 18968), (113, 18995), (121, 19043), (125, 19067), (130, 19085), (132, 19091),

Gene: Scrick_25 Start: 18402, Stop: 18824, Start Num: 43

Candidate Starts for Scrick_25:

(29, 18336), (Start: 43 @18402 has 254 MA's), (Start: 72 @18525 has 1 MA's), (Start: 73 @18531 has 1 MA's), (74, 18537), (88, 18600), (94, 18642), (113, 18720), (121, 18768), (125, 18792), (130, 18810), (132, 18816),

Gene: Sedona_30 Start: 24320, Stop: 24754, Start Num: 53

Candidate Starts for Sedona_30:

(Start: 53 @24320 has 103 MA's), (71, 24404), (82, 24479), (89, 24503), (98, 24581), (102, 24602), (119, 24659), (120, 24674), (132, 24725),

Gene: Selr12_25 Start: 18399, Stop: 18821, Start Num: 43

Candidate Starts for Selr12_25:

(29, 18333), (Start: 43 @18399 has 254 MA's), (Start: 72 @18522 has 1 MA's), (Start: 73 @18528 has 1 MA's), (74, 18534), (88, 18597), (94, 18639), (113, 18717), (121, 18765), (125, 18789), (130, 18807), (132, 18813),

Gene: Sendy_27 Start: 17805, Stop: 18248, Start Num: 53

Candidate Starts for Sendy_27:

(14, 17589), (18, 17631), (Start: 53 @17805 has 103 MA's), (98, 18066), (132, 18222),

Gene: Serendipitous_24 Start: 19199, Stop: 19615, Start Num: 49

Candidate Starts for Serendipitous_24:

(Start: 49 @19199 has 27 MA's), (75, 19343), (79, 19364), (93, 19415), (102, 19484), (124, 19580), (133, 19610),

Gene: Serendipity_25 Start: 18697, Stop: 19119, Start Num: 43

Candidate Starts for Serendipity_25:

(29, 18631), (Start: 43 @18697 has 254 MA's), (Start: 72 @18820 has 1 MA's), (Start: 73 @18826 has 1 MA's), (74, 18832), (88, 18895), (94, 18937), (113, 19015), (121, 19063), (125, 19087), (130, 19105), (132, 19111),

Gene: Serpentine_0025 Start: 18677, Stop: 19099, Start Num: 43

Candidate Starts for Serpentine_0025:

(29, 18611), (Start: 43 @18677 has 254 MA's), (Start: 72 @18800 has 1 MA's), (Start: 73 @18806 has 1 MA's), (74, 18812), (88, 18875), (94, 18917), (113, 18995), (121, 19043), (125, 19067), (130, 19085), (132, 19091),

Gene: ShadowBud_25 Start: 18690, Stop: 19112, Start Num: 43

Candidate Starts for ShadowBud_25:

(29, 18624), (Start: 43 @18690 has 254 MA's), (Start: 72 @18813 has 1 MA's), (Start: 73 @18819 has 1 MA's), (74, 18825), (88, 18888), (94, 18930), (113, 19008), (121, 19056), (125, 19080), (130, 19098), (132, 19104),

Gene: Shatter_22 Start: 17225, Stop: 17635, Start Num: 45

Candidate Starts for Shatter_22:

(Start: 45 @17225 has 19 MA's), (68, 17306), (Start: 72 @17345 has 1 MA's), (74, 17357), (81, 17399), (84, 17405), (88, 17423), (101, 17513),

Gene: Sheila_25 Start: 18669, Stop: 19091, Start Num: 43

Candidate Starts for Sheila_25:

(29, 18603), (Start: 43 @18669 has 254 MA's), (Start: 72 @18792 has 1 MA's), (Start: 73 @18798 has 1 MA's), (74, 18804), (88, 18867), (94, 18909), (113, 18987), (121, 19035), (125, 19059), (130, 19077), (132, 19083),

Gene: Shenyu_25 Start: 19342, Stop: 19758, Start Num: 49

Candidate Starts for Shenyu_25:

(Start: 49 @19342 has 27 MA's), (88, 19534), (94, 19576), (102, 19627), (133, 19753),

Gene: ShiVal_25 Start: 18669, Stop: 19091, Start Num: 43

Candidate Starts for ShiVal_25:

(29, 18603), (Start: 43 @18669 has 254 MA's), (Start: 72 @18792 has 1 MA's), (Start: 73 @18798 has 1 MA's), (74, 18804), (88, 18867), (94, 18909), (113, 18987), (121, 19035), (125, 19059), (130, 19077), (132, 19083),

Gene: Shinji_26 Start: 17540, Stop: 17983, Start Num: 53

Candidate Starts for Shinji_26:

(Start: 53 @17540 has 103 MA's), (98, 17801), (132, 17957),

Gene: Shivanishola_31 Start: 23294, Stop: 23728, Start Num: 53

Candidate Starts for Shivanishola_31:

(40, 23264), (Start: 53 @23294 has 103 MA's), (71, 23378), (82, 23453), (89, 23477), (98, 23555), (102, 23576), (120, 23648), (132, 23699),

Gene: Sigman_25 Start: 18668, Stop: 19090, Start Num: 43

Candidate Starts for Sigman_25:

(29, 18602), (Start: 43 @18668 has 254 MA's), (Start: 72 @18791 has 1 MA's), (Start: 73 @18797 has 1 MA's), (74, 18803), (88, 18866), (94, 18908), (113, 18986), (121, 19034), (125, 19058), (130, 19076), (132, 19082),

Gene: Sillytadpoles_33 Start: 21633, Stop: 22037, Start Num: 50

Candidate Starts for Sillytadpoles_33:

(30, 21576), (Start: 50 @21633 has 85 MA's), (56, 21669), (92, 21843), (94, 21864), (103, 21909), (106, 21918), (131, 22023), (134, 22032),

Gene: SilverBell_25 Start: 18692, Stop: 19114, Start Num: 43

Candidate Starts for SilverBell_25:

(29, 18626), (Start: 43 @18692 has 254 MA's), (Start: 72 @18815 has 1 MA's), (Start: 73 @18821 has 1 MA's), (74, 18827), (88, 18890), (94, 18932), (113, 19010), (121, 19058), (125, 19082), (130, 19100), (132, 19106),

Gene: Simielle_24 Start: 18367, Stop: 18789, Start Num: 43

Candidate Starts for Simielle_24:

(29, 18301), (Start: 43 @18367 has 254 MA's), (Start: 72 @18490 has 1 MA's), (Start: 73 @18496 has 1 MA's), (74, 18502), (88, 18565), (94, 18607), (113, 18685), (121, 18733), (125, 18757), (130, 18775), (132, 18781),

Gene: SirBeauregard_24 Start: 18361, Stop: 18783, Start Num: 42

Candidate Starts for SirBeauregard_24:

(Start: 42 @18361 has 66 MA's), (66, 18433), (Start: 72 @18484 has 1 MA's), (Start: 73 @18490 has 1 MA's), (74, 18496), (88, 18559), (94, 18601), (113, 18679), (121, 18727), (125, 18751), (130, 18769), (132, 18775),

Gene: SirJeffery_25 Start: 19385, Stop: 19801, Start Num: 49

Candidate Starts for SirJeffery_25:

(Start: 49 @19385 has 27 MA's), (63, 19445), (74, 19514), (94, 19619), (97, 19649), (133, 19796),

Gene: Sisko_22 Start: 17508, Stop: 17921, Start Num: 45

Candidate Starts for Sisko_22:

(Start: 45 @17508 has 19 MA's), (64, 17577), (74, 17643), (84, 17691), (101, 17799), (124, 17898),

Gene: Sitar_30 Start: 24387, Stop: 24821, Start Num: 53

Candidate Starts for Sitar_30:

(40, 24357), (Start: 53 @24387 has 103 MA's), (71, 24471), (82, 24546), (98, 24648), (102, 24669), (120, 24741), (132, 24792),

Gene: Sixsevenium_27 Start: 17507, Stop: 17950, Start Num: 53

Candidate Starts for Sixsevenium_27:

(Start: 53 @17507 has 103 MA's), (132, 17924),

Gene: Skippy_25 Start: 18662, Stop: 19084, Start Num: 43

Candidate Starts for Skippy_25:

(29, 18596), (Start: 43 @18662 has 254 MA's), (Start: 72 @18785 has 1 MA's), (Start: 73 @18791 has 1 MA's), (74, 18797), (88, 18860), (94, 18902), (113, 18980), (121, 19028), (125, 19052), (130, 19070), (132, 19076),

Gene: Slatt_25 Start: 18691, Stop: 19113, Start Num: 43

Candidate Starts for Slatt_25:

(29, 18625), (Start: 43 @18691 has 254 MA's), (Start: 72 @18814 has 1 MA's), (Start: 73 @18820 has 1 MA's), (74, 18826), (88, 18889), (94, 18931), (113, 19009), (121, 19057), (125, 19081), (130, 19099), (132, 19105),

Gene: SlySloth_35 Start: 22638, Stop: 23036, Start Num: 50

Candidate Starts for SlySloth_35:

(32, 22584), (Start: 50 @22638 has 85 MA's), (56, 22674), (92, 22848), (94, 22869), (103, 22914), (106, 22923),

Gene: SmokingBunny_26 Start: 17570, Stop: 18013, Start Num: 53

Candidate Starts for SmokingBunny_26:

(Start: 53 @17570 has 103 MA's), (98, 17831), (132, 17987),

Gene: Soile_25 Start: 18389, Stop: 18811, Start Num: 42

Candidate Starts for Soile_25:

(Start: 42 @18389 has 66 MA's), (Start: 73 @18518 has 1 MA's), (74, 18524), (88, 18587), (94, 18629), (113, 18707), (121, 18755), (125, 18779), (130, 18797), (132, 18803),

Gene: Solosis_24 Start: 18394, Stop: 18816, Start Num: 43

Candidate Starts for Solosis_24:

(29, 18328), (Start: 43 @18394 has 254 MA's), (Start: 72 @18517 has 1 MA's), (Start: 73 @18523 has 1 MA's), (74, 18529), (88, 18592), (94, 18634), (113, 18712), (121, 18760), (125, 18784), (130, 18802), (132, 18808),

Gene: Soos_49 Start: 28742, Stop: 29167, Start Num: 41

Candidate Starts for Soos_49:

(Start: 41 @28742 has 5 MA's), (86, 28940), (96, 29012), (113, 29066), (116, 29081),

Gene: Sophia_24 Start: 18387, Stop: 18809, Start Num: 43

Candidate Starts for Sophia_24:

(29, 18321), (Start: 43 @18387 has 254 MA's), (Start: 72 @18510 has 1 MA's), (Start: 73 @18516 has 1 MA's), (74, 18522), (88, 18585), (94, 18627), (113, 18705), (121, 18753), (125, 18777), (130, 18795), (132, 18801),

Gene: Soto_25 Start: 18671, Stop: 19093, Start Num: 43

Candidate Starts for Soto_25:

(29, 18605), (Start: 43 @18671 has 254 MA's), (Start: 72 @18794 has 1 MA's), (Start: 73 @18800 has 1 MA's), (74, 18806), (88, 18869), (94, 18911), (113, 18989), (121, 19037), (125, 19061), (130, 19079), (132, 19085),

Gene: Sour_26 Start: 21204, Stop: 21638, Start Num: 37

Candidate Starts for Sour_26:

(Start: 37 @21204 has 1 MA's), (Start: 45 @21225 has 19 MA's), (64, 21294), (81, 21402), (84, 21408), (94, 21468), (95, 21474), (101, 21516),

Gene: Spartan300_25 Start: 18672, Stop: 19094, Start Num: 43

Candidate Starts for Spartan300_25:

(29, 18606), (Start: 43 @18672 has 254 MA's), (Start: 72 @18795 has 1 MA's), (Start: 73 @18801 has 1 MA's), (74, 18807), (88, 18870), (94, 18912), (113, 18990), (121, 19038), (125, 19062), (130, 19080), (132, 19086),

Gene: Squash_35 Start: 22692, Stop: 23105, Start Num: 50

Candidate Starts for Squash_35:

(30, 22635), (Start: 50 @22692 has 85 MA's), (79, 22851), (100, 22968), (106, 22983),

Gene: Squid_25 Start: 18384, Stop: 18806, Start Num: 43

Candidate Starts for Squid_25:

(29, 18318), (Start: 43 @18384 has 254 MA's), (Start: 72 @18507 has 1 MA's), (Start: 73 @18513 has 1 MA's), (74, 18519), (88, 18582), (94, 18624), (113, 18702), (121, 18750), (125, 18774), (130, 18792), (132, 18798),

Gene: Squiggle_25 Start: 18381, Stop: 18803, Start Num: 43

Candidate Starts for Squiggle_25:

(29, 18315), (Start: 43 @18381 has 254 MA's), (Start: 72 @18504 has 1 MA's), (Start: 73 @18510 has 1 MA's), (74, 18516), (88, 18579), (94, 18621), (113, 18699), (121, 18747), (125, 18771), (130, 18789), (132, 18795),

Gene: Statler_34 Start: 22552, Stop: 22956, Start Num: 50

Candidate Starts for Statler_34:

(34, 22507), (Start: 50 @22552 has 85 MA's), (54, 22564), (56, 22588), (92, 22762), (94, 22783), (103, 22828), (106, 22837), (131, 22942), (134, 22951),

Gene: Stichling_27 Start: 21367, Stop: 21801, Start Num: 53

Candidate Starts for Stichling_27:

(Start: 53 @21367 has 103 MA's), (71, 21451), (74, 21481), (98, 21628), (102, 21649), (119, 21706), (120, 21721), (132, 21772),

Gene: Stillion_53 Start: 29339, Stop: 29764, Start Num: 41

Candidate Starts for Stillion_53:

(Start: 41 @29339 has 5 MA's), (86, 29537), (96, 29609), (113, 29663), (116, 29678),

Gene: Sting_52 Start: 29181, Stop: 29606, Start Num: 41

Candidate Starts for Sting_52:

(Start: 41 @29181 has 5 MA's), (86, 29379), (96, 29451), (113, 29505), (116, 29520),

Gene: Stinger_21 Start: 17880, Stop: 18293, Start Num: 50

Candidate Starts for Stinger_21:

(Start: 50 @17880 has 85 MA's), (Start: 73 @18000 has 1 MA's), (74, 18006), (79, 18042), (88, 18069), (90, 18081), (93, 18093), (94, 18111), (113, 18189), (124, 18258), (125, 18261), (132, 18285),

Gene: StinkyVeggy_27 Start: 19514, Stop: 19930, Start Num: 49

Candidate Starts for StinkyVeggy_27:

(Start: 49 @19514 has 27 MA's), (88, 19706), (102, 19799), (133, 19925),

Gene: StorminNorm_29 Start: 21732, Stop: 22166, Start Num: 53

Candidate Starts for StorminNorm_29:

(Start: 50 @21723 has 85 MA's), (Start: 53 @21732 has 103 MA's), (71, 21816), (82, 21891), (98, 21993), (102, 22014), (119, 22071), (120, 22086), (132, 22137),

Gene: StrawberryJamm_35 Start: 21872, Stop: 22285, Start Num: 50

Candidate Starts for StrawberryJamm_35:

(30, 21815), (Start: 50 @21872 has 85 MA's), (79, 22031), (100, 22148), (106, 22163),

Gene: Struggle_24 Start: 18228, Stop: 18650, Start Num: 42

Candidate Starts for Struggle_24:

(Start: 42 @18228 has 66 MA's), (Start: 72 @18351 has 1 MA's), (Start: 73 @18357 has 1 MA's), (74, 18363), (88, 18426), (94, 18468), (113, 18546), (121, 18594), (125, 18618), (130, 18636), (132, 18642),

Gene: Stultus_28 Start: 22302, Stop: 22736, Start Num: 53

Candidate Starts for Stultus_28:

(40, 22272), (Start: 53 @22302 has 103 MA's), (71, 22386), (82, 22461), (89, 22485), (98, 22563), (102, 22584), (120, 22656), (132, 22707),

Gene: Suffolk_25 Start: 18674, Stop: 19096, Start Num: 43

Candidate Starts for Suffolk_25:

(29, 18608), (Start: 43 @18674 has 254 MA's), (Start: 72 @18797 has 1 MA's), (Start: 73 @18803 has 1 MA's), (74, 18809), (88, 18872), (94, 18914), (113, 18992), (121, 19040), (125, 19064), (130, 19082), (132, 19088),

Gene: Suigeneris_25 Start: 19394, Stop: 19810, Start Num: 49

Candidate Starts for Suigeneris_25:

(Start: 49 @19394 has 27 MA's), (63, 19454), (74, 19523), (94, 19628), (97, 19658), (133, 19805),

Gene: Sunfish_41 Start: 23003, Stop: 23479, Start Num: 50

Candidate Starts for Sunfish_41:

(Start: 50 @23003 has 85 MA's), (70, 23084), (94, 23234), (98, 23288), (100, 23306), (109, 23333),

Gene: Surely_25 Start: 18686, Stop: 19108, Start Num: 43

Candidate Starts for Surely_25:

(29, 18620), (Start: 43 @18686 has 254 MA's), (Start: 72 @18809 has 1 MA's), (Start: 73 @18815 has 1 MA's), (74, 18821), (88, 18884), (94, 18926), (113, 19004), (121, 19052), (125, 19076), (130, 19094), (132, 19100),

Gene: Swiphy_25 Start: 18675, Stop: 19097, Start Num: 42

Candidate Starts for Swiphy_25:

(Start: 42 @18675 has 66 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: Swish_25 Start: 18669, Stop: 19091, Start Num: 43

Candidate Starts for Swish_25:

(29, 18603), (Start: 43 @18669 has 254 MA's), (Start: 72 @18792 has 1 MA's), (Start: 73 @18798 has 1 MA's), (74, 18804), (88, 18867), (94, 18909), (113, 18987), (121, 19035), (125, 19059), (130, 19077), (132, 19083),

Gene: TA17A_28 Start: 20831, Stop: 21259, Start Num: 43

Candidate Starts for TA17A_28:

(35, 20804), (Start: 43 @20831 has 254 MA's), (52, 20846), (Start: 73 @20963 has 1 MA's), (74, 20969), (77, 20996), (84, 21017), (88, 21035), (113, 21155), (115, 21161), (124, 21224), (132, 21251),

Gene: TPA2_31 Start: 19553, Stop: 19993, Start Num: 38

Candidate Starts for TPA2_31:

(38, 19553), (Start: 73 @19697 has 1 MA's), (74, 19703), (88, 19769), (113, 19892), (124, 19961), (129, 19979),

Gene: TallGrassMM_25 Start: 18401, Stop: 18823, Start Num: 43

Candidate Starts for TallGrassMM_25:

(29, 18335), (Start: 43 @18401 has 254 MA's), (Start: 72 @18524 has 1 MA's), (Start: 73 @18530 has 1 MA's), (74, 18536), (88, 18599), (94, 18641), (102, 18692), (113, 18719), (121, 18767), (125, 18791), (130, 18809), (132, 18815),

Gene: Tangent_30 Start: 22736, Stop: 23170, Start Num: 53

Candidate Starts for Tangent_30:

(40, 22706), (Start: 53 @22736 has 103 MA's), (71, 22820), (82, 22895), (89, 22919), (98, 22997), (120, 23090), (132, 23141),

Gene: Tangerine_29 Start: 21738, Stop: 22172, Start Num: 53

Candidate Starts for Tangerine_29:

(Start: 50 @21729 has 85 MA's), (Start: 53 @21738 has 103 MA's), (71, 21822), (82, 21897), (98, 21999), (102, 22020), (119, 22077), (120, 22092), (132, 22143),

Gene: Taptic_19 Start: 18137, Stop: 18547, Start Num: 50

Candidate Starts for Taptic_19:

(Start: 50 @18137 has 85 MA's), (68, 18212), (Start: 73 @18257 has 1 MA's), (74, 18263), (81, 18305), (88, 18329), (92, 18350), (112, 18452), (121, 18497),

Gene: Tardus_31 Start: 22245, Stop: 22676, Start Num: 53

Candidate Starts for Tardus_31:

(Start: 41 @22218 has 5 MA's), (Start: 53 @22245 has 103 MA's), (71, 22329), (75, 22374), (82, 22404), (98, 22506), (99, 22512), (102, 22527), (119, 22584), (120, 22599), (131, 22647), (132, 22650),

Gene: Teehee_34 Start: 22869, Stop: 23273, Start Num: 50

Candidate Starts for Teehee_34:

(30, 22812), (Start: 50 @22869 has 85 MA's), (56, 22905), (92, 23079), (94, 23100), (103, 23145), (106, 23154), (131, 23259), (134, 23268),

Gene: Telesworld_24 Start: 18380, Stop: 18802, Start Num: 43

Candidate Starts for Telesworld_24:

(29, 18314), (Start: 43 @18380 has 254 MA's), (Start: 72 @18503 has 1 MA's), (Start: 73 @18509 has 1 MA's), (74, 18515), (88, 18578), (94, 18620), (113, 18698), (121, 18746), (125, 18770), (130, 18788), (132, 18794),

Gene: Tempo_32 Start: 21006, Stop: 21401, Start Num: 50

Candidate Starts for Tempo_32:

(Start: 50 @21006 has 85 MA's), (Start: 57 @21048 has 1 MA's), (62, 21057), (79, 21165), (104, 21288), (111, 21306), (131, 21393),

Gene: Thing3_29 Start: 23229, Stop: 23663, Start Num: 53

Candidate Starts for Thing3_29:

(40, 23199), (Start: 53 @23229 has 103 MA's), (71, 23313), (82, 23388), (89, 23412), (98, 23490), (102, 23511), (120, 23583), (132, 23634),

Gene: Thonko_24 Start: 17161, Stop: 17574, Start Num: 50

Candidate Starts for Thonko_24:

(9, 16762), (10, 16798), (21, 17026), (Start: 50 @17161 has 85 MA's), (Start: 73 @17281 has 1 MA's), (74, 17287), (76, 17311), (77, 17314), (94, 17392), (116, 17485),

Gene: Thora_25 Start: 18685, Stop: 19107, Start Num: 43

Candidate Starts for Thora_25:

(29, 18619), (Start: 43 @18685 has 254 MA's), (Start: 72 @18808 has 1 MA's), (Start: 73 @18814 has 1 MA's), (74, 18820), (88, 18883), (94, 18925), (113, 19003), (121, 19051), (125, 19075), (130, 19093), (132, 19099),

Gene: ThreeOh3D2_25 Start: 18684, Stop: 19106, Start Num: 43

Candidate Starts for ThreeOh3D2_25:

(29, 18618), (Start: 43 @18684 has 254 MA's), (Start: 72 @18807 has 1 MA's), (Start: 73 @18813 has 1 MA's), (74, 18819), (88, 18882), (94, 18924), (113, 19002), (121, 19050), (125, 19074), (130, 19092), (132, 19098),

Gene: Thunderbird_24 Start: 18384, Stop: 18806, Start Num: 43

Candidate Starts for Thunderbird_24:

(29, 18318), (Start: 43 @18384 has 254 MA's), (Start: 72 @18507 has 1 MA's), (Start: 73 @18513 has 1 MA's), (74, 18519), (88, 18582), (94, 18624), (113, 18702), (121, 18750), (125, 18774), (130, 18792), (132, 18798),

Gene: Tiamoceli_28 Start: 20458, Stop: 20889, Start Num: 53

Candidate Starts for Tiamoceli_28:

(20, 20290), (Start: 53 @20458 has 103 MA's), (71, 20542), (82, 20617), (101, 20737), (107, 20752), (120, 20812), (122, 20821), (131, 20860), (132, 20863),

Gene: TillyBobJoe_26 Start: 17354, Stop: 17797, Start Num: 53

Candidate Starts for TillyBobJoe_26:

(Start: 53 @17354 has 103 MA's), (98, 17615), (132, 17771),

Gene: Timmi_24 Start: 18395, Stop: 18817, Start Num: 43

Candidate Starts for Timmi_24:

(29, 18329), (Start: 43 @18395 has 254 MA's), (Start: 72 @18518 has 1 MA's), (Start: 73 @18524 has 1 MA's), (74, 18530), (88, 18593), (94, 18635), (113, 18713), (121, 18761), (125, 18785), (130, 18803), (132, 18809),

Gene: Tinciduntolum_28 Start: 20953, Stop: 21381, Start Num: 43

Candidate Starts for Tinciduntolum_28:

(35, 20926), (Start: 43 @20953 has 254 MA's), (52, 20968), (Start: 73 @21085 has 1 MA's), (74, 21091), (77, 21118), (84, 21139), (88, 21157), (113, 21277), (115, 21283), (124, 21346), (132, 21373),

Gene: Tissue_33 Start: 22386, Stop: 22790, Start Num: 50

Candidate Starts for Tissue_33:

(Start: 50 @22386 has 85 MA's), (54, 22398), (92, 22596), (94, 22617), (103, 22662), (106, 22671), (131, 22776), (134, 22785),

Gene: Togo_26 Start: 17570, Stop: 18013, Start Num: 53

Candidate Starts for Togo_26:

(Start: 53 @17570 has 103 MA's), (98, 17831), (132, 17987),

Gene: TomBombadil_25 Start: 18680, Stop: 19102, Start Num: 43

Candidate Starts for TomBombadil_25:

(29, 18614), (Start: 43 @18680 has 254 MA's), (Start: 72 @18803 has 1 MA's), (Start: 73 @18809 has 1 MA's), (74, 18815), (88, 18878), (94, 18920), (113, 18998), (121, 19046), (125, 19070), (130, 19088), (132, 19094),

Gene: Tomlarah_25 Start: 18670, Stop: 19092, Start Num: 43

Candidate Starts for Tomlarah_25:

(29, 18604), (Start: 43 @18670 has 254 MA's), (Start: 72 @18793 has 1 MA's), (Start: 73 @18799 has 1 MA's), (74, 18805), (88, 18868), (94, 18910), (113, 18988), (121, 19036), (125, 19060), (130, 19078), (132, 19084),

Gene: Toni_24 Start: 18379, Stop: 18801, Start Num: 43

Candidate Starts for Toni_24:

(29, 18313), (Start: 43 @18379 has 254 MA's), (Start: 72 @18502 has 1 MA's), (Start: 73 @18508 has 1 MA's), (74, 18514), (88, 18577), (94, 18619), (113, 18697), (121, 18745), (125, 18769), (130, 18787), (132, 18793),

Gene: Tonitrus_40 Start: 27403, Stop: 27783, Start Num: 57

Candidate Starts for Tonitrus_40:

(Start: 46 @27346 has 3 MA's), (Start: 57 @27403 has 1 MA's), (69, 27433), (74, 27484), (83, 27529), (85, 27532), (88, 27547), (90, 27559), (101, 27637), (113, 27667), (114, 27670), (117, 27691),

Gene: TooFast2Furius_26 Start: 18916, Stop: 19338, Start Num: 43

Candidate Starts for TooFast2Furius_26:

(29, 18850), (Start: 43 @18916 has 254 MA's), (Start: 72 @19039 has 1 MA's), (Start: 73 @19045 has 1 MA's), (74, 19051), (88, 19114), (94, 19156), (113, 19234), (121, 19282), (125, 19306), (130, 19324), (132, 19330),

Gene: Tooj_25 Start: 18681, Stop: 19103, Start Num: 43

Candidate Starts for Tooj_25:

(29, 18615), (Start: 43 @18681 has 254 MA's), (Start: 72 @18804 has 1 MA's), (Start: 73 @18810 has 1 MA's), (74, 18816), (88, 18879), (94, 18921), (113, 18999), (121, 19047), (125, 19071), (130, 19089), (132, 19095),

Gene: TraderJ_24 Start: 18607, Stop: 19017, Start Num: 45

Candidate Starts for TraderJ_24:

(Start: 45 @18607 has 19 MA's), (78, 18769), (81, 18781), (113, 18925),

Gene: Tres_27 Start: 20834, Stop: 21262, Start Num: 43

Candidate Starts for Tres_27:

(35, 20807), (Start: 43 @20834 has 254 MA's), (52, 20849), (Start: 73 @20966 has 1 MA's), (74, 20972), (77, 20999), (84, 21020), (88, 21038), (113, 21158), (115, 21164), (124, 21227), (132, 21254),

Gene: Triad_25 Start: 17550, Stop: 17972, Start Num: 43

Candidate Starts for Triad_25:

(29, 17484), (Start: 43 @17550 has 254 MA's), (Start: 72 @17673 has 1 MA's), (Start: 73 @17679 has 1 MA's), (74, 17685), (88, 17748), (94, 17790), (113, 17868), (121, 17916), (125, 17940), (130, 17958), (132, 17964),

Gene: True_24 Start: 18383, Stop: 18805, Start Num: 43

Candidate Starts for True_24:

(29, 18317), (Start: 43 @18383 has 254 MA's), (Start: 72 @18506 has 1 MA's), (Start: 73 @18512 has 1 MA's), (74, 18518), (88, 18581), (94, 18623), (113, 18701), (121, 18749), (125, 18773), (130, 18791), (132, 18797),

Gene: Trypo_25 Start: 18672, Stop: 19094, Start Num: 42

Candidate Starts for Trypo_25:

(Start: 42 @18672 has 66 MA's), (Start: 72 @18795 has 1 MA's), (Start: 73 @18801 has 1 MA's), (74, 18807), (88, 18870), (94, 18912), (113, 18990), (121, 19038), (125, 19062), (130, 19080), (132, 19086),

Gene: Twister6_28 Start: 17997, Stop: 18440, Start Num: 53

Candidate Starts for Twister6_28:

(Start: 53 @17997 has 103 MA's), (98, 18258), (132, 18414),

Gene: Twonlo_25 Start: 19076, Stop: 19507, Start Num: 53

Candidate Starts for Twonlo_25:

(Start: 53 @19076 has 103 MA's), (71, 19160), (82, 19235), (101, 19355), (107, 19370), (120, 19430), (122, 19439), (131, 19478), (132, 19481),

Gene: Tycho_29 Start: 21827, Stop: 22261, Start Num: 53

Candidate Starts for Tycho_29:

(Start: 50 @21818 has 85 MA's), (Start: 53 @21827 has 103 MA's), (71, 21911), (82, 21986), (98, 22088), (102, 22109), (119, 22166), (120, 22181), (132, 22232),

Gene: TyrionL_24 Start: 18236, Stop: 18658, Start Num: 42

Candidate Starts for TyrionL_24:

(Start: 42 @18236 has 66 MA's), (Start: 72 @18359 has 1 MA's), (Start: 73 @18365 has 1 MA's), (74, 18371), (88, 18434), (94, 18476), (113, 18554), (121, 18602), (125, 18626), (130, 18644), (132, 18650),

Gene: UAch1_25 Start: 18692, Stop: 19114, Start Num: 43

Candidate Starts for UAch1_25:

(29, 18626), (Start: 43 @18692 has 254 MA's), (Start: 72 @18815 has 1 MA's), (Start: 73 @18821 has 1 MA's), (74, 18827), (88, 18890), (94, 18932), (102, 18983), (113, 19010), (121, 19058), (125, 19082), (130, 19100), (132, 19106),

Gene: UncleHowie_25 Start: 18382, Stop: 18804, Start Num: 43

Candidate Starts for UncleHowie_25:

(29, 18316), (Start: 43 @18382 has 254 MA's), (Start: 72 @18505 has 1 MA's), (Start: 73 @18511 has 1 MA's), (74, 18517), (88, 18580), (94, 18622), (113, 18700), (121, 18748), (125, 18772), (130, 18790), (132, 18796),

Gene: Usavi_25 Start: 18683, Stop: 19105, Start Num: 43

Candidate Starts for Usavi_25:

(29, 18617), (Start: 43 @18683 has 254 MA's), (Start: 72 @18806 has 1 MA's), (Start: 73 @18812 has 1 MA's), (74, 18818), (88, 18881), (94, 18923), (102, 18974), (113, 19001), (121, 19049), (125, 19073), (130, 19091), (132, 19097),

Gene: Vaishali24_24 Start: 18341, Stop: 18763, Start Num: 42

Candidate Starts for Vaishali24_24:

(Start: 42 @18341 has 66 MA's), (Start: 72 @18464 has 1 MA's), (Start: 73 @18470 has 1 MA's), (74, 18476), (88, 18539), (94, 18581), (113, 18659), (121, 18707), (125, 18731), (130, 18749), (132, 18755),

Gene: Valary_29 Start: 18503, Stop: 18946, Start Num: 53

Candidate Starts for Valary_29:

(Start: 53 @18503 has 103 MA's), (98, 18764), (132, 18920),

Gene: Valjean_25 Start: 18675, Stop: 19097, Start Num: 43

Candidate Starts for Valjean_25:

(29, 18609), (Start: 43 @18675 has 254 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: VanDeWege_29 Start: 18378, Stop: 18821, Start Num: 53

Candidate Starts for VanDeWege_29:

(Start: 53 @18378 has 103 MA's), (98, 18639), (132, 18795),

Gene: Vaticameos_25 Start: 18373, Stop: 18795, Start Num: 43

Candidate Starts for Vaticameos_25:

(29, 18307), (Start: 43 @18373 has 254 MA's), (Start: 72 @18496 has 1 MA's), (Start: 73 @18502 has 1 MA's), (74, 18508), (88, 18571), (94, 18613), (113, 18691), (121, 18739), (125, 18763), (130, 18781), (132, 18787),

Gene: Veritas_24 Start: 18242, Stop: 18664, Start Num: 42

Candidate Starts for Veritas_24:

(Start: 42 @18242 has 66 MA's), (66, 18314), (Start: 72 @18365 has 1 MA's), (Start: 73 @18371 has 1 MA's), (74, 18377), (88, 18440), (94, 18482), (113, 18560), (121, 18608), (125, 18632), (130, 18650), (132, 18656),

Gene: Verity_29 Start: 23097, Stop: 23528, Start Num: 53

Candidate Starts for Verity_29:

(Start: 41 @23070 has 5 MA's), (Start: 53 @23097 has 103 MA's), (71, 23181), (74, 23211), (75, 23226), (82, 23256), (88, 23277), (98, 23358), (99, 23364), (107, 23391), (119, 23436), (120, 23451), (131, 23499), (132, 23502),

Gene: ViaConlectus_30 Start: 21588, Stop: 22019, Start Num: 53

Candidate Starts for ViaConlectus_30:

(30, 21528), (Start: 41 @21561 has 5 MA's), (Start: 53 @21588 has 103 MA's), (75, 21717), (82, 21747), (98, 21849), (99, 21855), (102, 21870), (119, 21927), (120, 21942), (131, 21990), (132, 21993),

Gene: Vic9_00027 Start: 21282, Stop: 21710, Start Num: 43

Candidate Starts for Vic9_00027:

(35, 21255), (Start: 43 @21282 has 254 MA's), (52, 21297), (74, 21420), (77, 21447), (84, 21468), (88, 21486), (94, 21528), (113, 21606), (115, 21612), (124, 21675), (132, 21702),

Gene: Viceroy_32 Start: 21635, Stop: 22048, Start Num: 50

Candidate Starts for Viceroy_32:

(30, 21578), (Start: 50 @21635 has 85 MA's), (56, 21671), (79, 21794), (100, 21911), (106, 21926),

Gene: Vincenzo_24 Start: 20089, Stop: 20502, Start Num: 50

Candidate Starts for Vincenzo_24:

(31, 20038), (Start: 50 @20089 has 85 MA's), (Start: 73 @20209 has 1 MA's), (74, 20215), (90, 20290), (94, 20320), (112, 20395), (116, 20413), (132, 20494),

Gene: VioletZ_23 Start: 19392, Stop: 19805, Start Num: 50

Candidate Starts for VioletZ_23:

(Start: 50 @19392 has 85 MA's), (Start: 72 @19506 has 1 MA's), (Start: 73 @19512 has 1 MA's), (74, 19518), (79, 19554), (90, 19593), (93, 19605), (94, 19623), (124, 19770), (132, 19797),

Gene: Virapocalypse_25 Start: 18666, Stop: 19088, Start Num: 43

Candidate Starts for Virapocalypse_25:

(29, 18600), (Start: 43 @18666 has 254 MA's), (Start: 72 @18789 has 1 MA's), (Start: 73 @18795 has 1 MA's), (74, 18801), (88, 18864), (94, 18906), (113, 18984), (121, 19032), (125, 19056), (130, 19074), (132, 19080),

Gene: Virgeve_24 Start: 18408, Stop: 18830, Start Num: 42

Candidate Starts for Virgeve_24:

(Start: 42 @18408 has 66 MA's), (66, 18480), (Start: 72 @18531 has 1 MA's), (Start: 73 @18537 has 1 MA's), (74, 18543), (88, 18606), (94, 18648), (113, 18726), (121, 18774), (125, 18798), (130, 18816), (132, 18822),

Gene: Vista_25 Start: 18680, Stop: 19102, Start Num: 43

Candidate Starts for Vista_25:

(29, 18614), (Start: 43 @18680 has 254 MA's), (Start: 72 @18803 has 1 MA's), (Start: 73 @18809 has 1 MA's), (74, 18815), (88, 18878), (94, 18920), (102, 18971), (113, 18998), (121, 19046), (125, 19070), (130, 19088), (132, 19094),

Gene: Vivaldi_25 Start: 18710, Stop: 19132, Start Num: 43

Candidate Starts for Vivaldi_25:

(29, 18644), (Start: 43 @18710 has 254 MA's), (Start: 72 @18833 has 1 MA's), (Start: 73 @18839 has 1 MA's), (74, 18845), (88, 18908), (94, 18950), (113, 19028), (121, 19076), (125, 19100), (130, 19118), (132, 19124),

Gene: Vivi2_32 Start: 23909, Stop: 24343, Start Num: 53

Candidate Starts for Vivi2_32:

(40, 23879), (Start: 53 @23909 has 103 MA's), (71, 23993), (82, 24068), (89, 24092), (98, 24170), (102, 24191), (120, 24263), (132, 24314),

Gene: Vortex_25 Start: 18390, Stop: 18812, Start Num: 43

Candidate Starts for Vortex_25:

(29, 18324), (Start: 43 @18390 has 254 MA's), (Start: 72 @18513 has 1 MA's), (Start: 73 @18519 has 1 MA's), (74, 18525), (88, 18588), (94, 18630), (113, 18708), (121, 18756), (125, 18780), (130, 18798), (132, 18804),

Gene: Waleliano_23 Start: 19331, Stop: 19744, Start Num: 50

Candidate Starts for Waleliano_23:

(Start: 50 @19331 has 85 MA's), (Start: 72 @19445 has 1 MA's), (Start: 73 @19451 has 1 MA's), (74, 19457), (79, 19493), (90, 19532), (93, 19544), (94, 19562), (113, 19640), (124, 19709), (125, 19712), (132, 19736),

Gene: Wallhey_24 Start: 18240, Stop: 18662, Start Num: 42

Candidate Starts for Wallhey_24:

(Start: 42 @18240 has 66 MA's), (Start: 72 @18363 has 1 MA's), (Start: 73 @18369 has 1 MA's), (74, 18375), (88, 18438), (94, 18480), (113, 18558), (121, 18606), (125, 18630), (130, 18648), (132, 18654),

Gene: Waterdiva_25 Start: 18675, Stop: 19097, Start Num: 43

Candidate Starts for Waterdiva_25:

(29, 18609), (Start: 43 @18675 has 254 MA's), (Start: 72 @18798 has 1 MA's), (Start: 73 @18804 has 1 MA's), (74, 18810), (88, 18873), (94, 18915), (113, 18993), (121, 19041), (125, 19065), (130, 19083), (132, 19089),

Gene: Wayne3_34 Start: 22632, Stop: 23036, Start Num: 50

Candidate Starts for Wayne3_34:

(30, 22575), (Start: 50 @22632 has 85 MA's), (56, 22668), (92, 22842), (94, 22863), (103, 22908), (106, 22917), (131, 23022), (134, 23031),

Gene: Weher20_25 Start: 18668, Stop: 19090, Start Num: 42

Candidate Starts for Weher20_25:

(Start: 42 @18668 has 66 MA's), (Start: 72 @18791 has 1 MA's), (Start: 73 @18797 has 1 MA's), (74, 18803), (88, 18866), (94, 18908), (113, 18986), (121, 19034), (125, 19058), (130, 19076), (132, 19082),

Gene: West99_27 Start: 20954, Stop: 21382, Start Num: 43

Candidate Starts for West99_27:

(35, 20927), (Start: 43 @20954 has 254 MA's), (52, 20969), (Start: 73 @21086 has 1 MA's), (74, 21092), (77, 21119), (84, 21140), (88, 21158), (113, 21278), (115, 21284), (124, 21347), (132, 21374),

Gene: WheelerS25_38 Start: 23392, Stop: 23796, Start Num: 50

Candidate Starts for WheelerS25_38:

(30, 23335), (Start: 50 @23392 has 85 MA's), (92, 23602), (94, 23623), (103, 23668), (106, 23677), (131, 23782), (134, 23791),

Gene: Wheelie_32 Start: 21950, Stop: 22354, Start Num: 50

Candidate Starts for Wheelie_32:

(30, 21893), (Start: 50 @21950 has 85 MA's), (56, 21986), (92, 22160), (94, 22181), (103, 22226), (106, 22235), (131, 22340), (134, 22349),

Gene: Wilca_32 Start: 20827, Stop: 21222, Start Num: 50

Candidate Starts for Wilca_32:

(Start: 50 @20827 has 85 MA's), (Start: 57 @20869 has 1 MA's), (62, 20878), (79, 20986), (111, 21127), (126, 21196), (131, 21214),

Gene: Windsor_24 Start: 18360, Stop: 18782, Start Num: 42

Candidate Starts for Windsor_24:

(Start: 42 @18360 has 66 MA's), (66, 18432), (Start: 72 @18483 has 1 MA's), (Start: 73 @18489 has 1 MA's), (74, 18495), (88, 18558), (94, 18600), (113, 18678), (121, 18726), (125, 18750), (130, 18768), (132, 18774),

Gene: Wizard_26 Start: 17704, Stop: 18147, Start Num: 53

Candidate Starts for Wizard_26:

(Start: 53 @17704 has 103 MA's), (98, 17965), (132, 18121),

Gene: Wooper_24 Start: 18613, Stop: 19023, Start Num: 45

Candidate Starts for Wooper_24:

(Start: 45 @18613 has 19 MA's), (78, 18775), (81, 18787), (113, 18931),

Gene: Xavier_24 Start: 18393, Stop: 18815, Start Num: 43

Candidate Starts for Xavier_24:

(29, 18327), (Start: 43 @18393 has 254 MA's), (Start: 72 @18516 has 1 MA's), (Start: 73 @18522 has 1 MA's), (74, 18528), (88, 18591), (94, 18633), (113, 18711), (121, 18759), (125, 18783), (130, 18801), (132, 18807),

Gene: Xincheng_22 Start: 18792, Stop: 19205, Start Num: 50

Candidate Starts for Xincheng_22:

(Start: 50 @18792 has 85 MA's), (Start: 72 @18906 has 1 MA's), (Start: 73 @18912 has 1 MA's), (74, 18918), (79, 18954), (90, 18993), (93, 19005), (94, 19023), (102, 19074), (113, 19101), (124, 19170), (125, 19173), (132, 19197),

Gene: Yago84_22 Start: 17516, Stop: 17929, Start Num: 45

Candidate Starts for Yago84_22:

(Start: 45 @17516 has 19 MA's), (64, 17585), (74, 17651), (84, 17699), (101, 17807), (124, 17906),

Gene: Yeshua_24 Start: 18590, Stop: 19000, Start Num: 45

Candidate Starts for Yeshua_24:

(Start: 45 @18590 has 19 MA's), (78, 18752), (81, 18764), (113, 18908),

Gene: YorkOnyx_30 Start: 22083, Stop: 22517, Start Num: 49

Candidate Starts for YorkOnyx_30:

(Start: 49 @22083 has 27 MA's), (67, 22137), (71, 22167), (86, 22257), (88, 22263), (98, 22344), (102, 22365), (120, 22437), (132, 22488),

Gene: Yoshand_25 Start: 18682, Stop: 19104, Start Num: 43

Candidate Starts for Yoshand_25:

(29, 18616), (Start: 43 @18682 has 254 MA's), (Start: 72 @18805 has 1 MA's), (Start: 73 @18811 has 1 MA's), (74, 18817), (88, 18880), (94, 18922), (113, 19000), (121, 19048), (125, 19072), (130, 19090), (132, 19096),

Gene: YouGoGlencoco_25 Start: 18671, Stop: 19093, Start Num: 43

Candidate Starts for YouGoGlencoco_25:

(29, 18605), (Start: 43 @18671 has 254 MA's), (Start: 72 @18794 has 1 MA's), (Start: 73 @18800 has 1 MA's), (74, 18806), (88, 18869), (94, 18911), (113, 18989), (121, 19037), (125, 19061), (130, 19079), (132, 19085),

Gene: YungMoney_28 Start: 19070, Stop: 19513, Start Num: 53

Candidate Starts for YungMoney_28:

(Start: 53 @19070 has 103 MA's), (132, 19487),

Gene: Zagie_33 Start: 22073, Stop: 22486, Start Num: 50

Candidate Starts for Zagie_33:

(30, 22016), (Start: 50 @22073 has 85 MA's), (79, 22232), (100, 22349), (106, 22364),

Gene: Zaider_26 Start: 18907, Stop: 19329, Start Num: 43

Candidate Starts for Zaider_26:

(29, 18841), (Start: 43 @18907 has 254 MA's), (Start: 72 @19030 has 1 MA's), (Start: 73 @19036 has 1 MA's), (74, 19042), (88, 19105), (94, 19147), (113, 19225), (121, 19273), (125, 19297), (130, 19315), (132, 19321),

Gene: Zelda_25 Start: 18676, Stop: 19098, Start Num: 43

Candidate Starts for Zelda_25:

(29, 18610), (Start: 43 @18676 has 254 MA's), (Start: 72 @18799 has 1 MA's), (Start: 73 @18805 has 1 MA's), (74, 18811), (88, 18874), (94, 18916), (113, 18994), (121, 19042), (125, 19066), (130, 19084), (132, 19090),

Gene: Zemanar_24 Start: 19331, Stop: 19744, Start Num: 50

Candidate Starts for Zemanar_24:

(Start: 50 @19331 has 85 MA's), (Start: 72 @19445 has 1 MA's), (Start: 73 @19451 has 1 MA's), (74, 19457), (79, 19493), (90, 19532), (93, 19544), (94, 19562), (113, 19640), (124, 19709), (125, 19712), (132, 19736),

Gene: Zenteno07_29 Start: 19112, Stop: 19528, Start Num: 49

Candidate Starts for Zenteno07_29:

(Start: 49 @19112 has 27 MA's), (Start: 73 @19235 has 1 MA's), (76, 19265), (77, 19268), (113, 19424), (116, 19439), (132, 19520),

Gene: Zhafia_35 Start: 22428, Stop: 22832, Start Num: 50

Candidate Starts for Zhafia_35:

(30, 22371), (Start: 50 @22428 has 85 MA's), (56, 22464), (92, 22638), (94, 22659), (103, 22704), (106, 22713), (131, 22818), (134, 22827),

Gene: Zipp_29 Start: 22994, Stop: 23425, Start Num: 53

Candidate Starts for Zipp_29:

(Start: 41 @22967 has 5 MA's), (Start: 53 @22994 has 103 MA's), (74, 23108), (75, 23123), (82, 23153), (88, 23174), (98, 23255), (99, 23261), (107, 23288), (119, 23333), (120, 23348), (131, 23396), (132, 23399),

Gene: Zitch_31 Start: 20868, Stop: 21299, Start Num: 53

Candidate Starts for Zitch_31:

(Start: 41 @20841 has 5 MA's), (Start: 53 @20868 has 103 MA's), (71, 20952), (75, 20997), (82, 21027), (88, 21048), (98, 21129), (99, 21135), (102, 21150), (119, 21207), (120, 21222), (131, 21270), (132, 21273),

Gene: Zonia_25 Start: 18690, Stop: 19112, Start Num: 42

Candidate Starts for Zonia_25:

(Start: 42 @18690 has 66 MA's), (Start: 72 @18813 has 1 MA's), (Start: 73 @18819 has 1 MA's), (74, 18825), (88, 18888), (94, 18930), (113, 19008), (121, 19056), (125, 19080), (130, 19098), (132, 19104),

Gene: phiAsp2_21 Start: 13673, Stop: 14086, Start Num: 50

Candidate Starts for phiAsp2_21:

(Start: 50 @13673 has 85 MA's), (61, 13724), (70, 13754), (74, 13796), (80, 13832), (87, 13856), (88, 13859), (90, 13871), (107, 13964), (116, 13994),