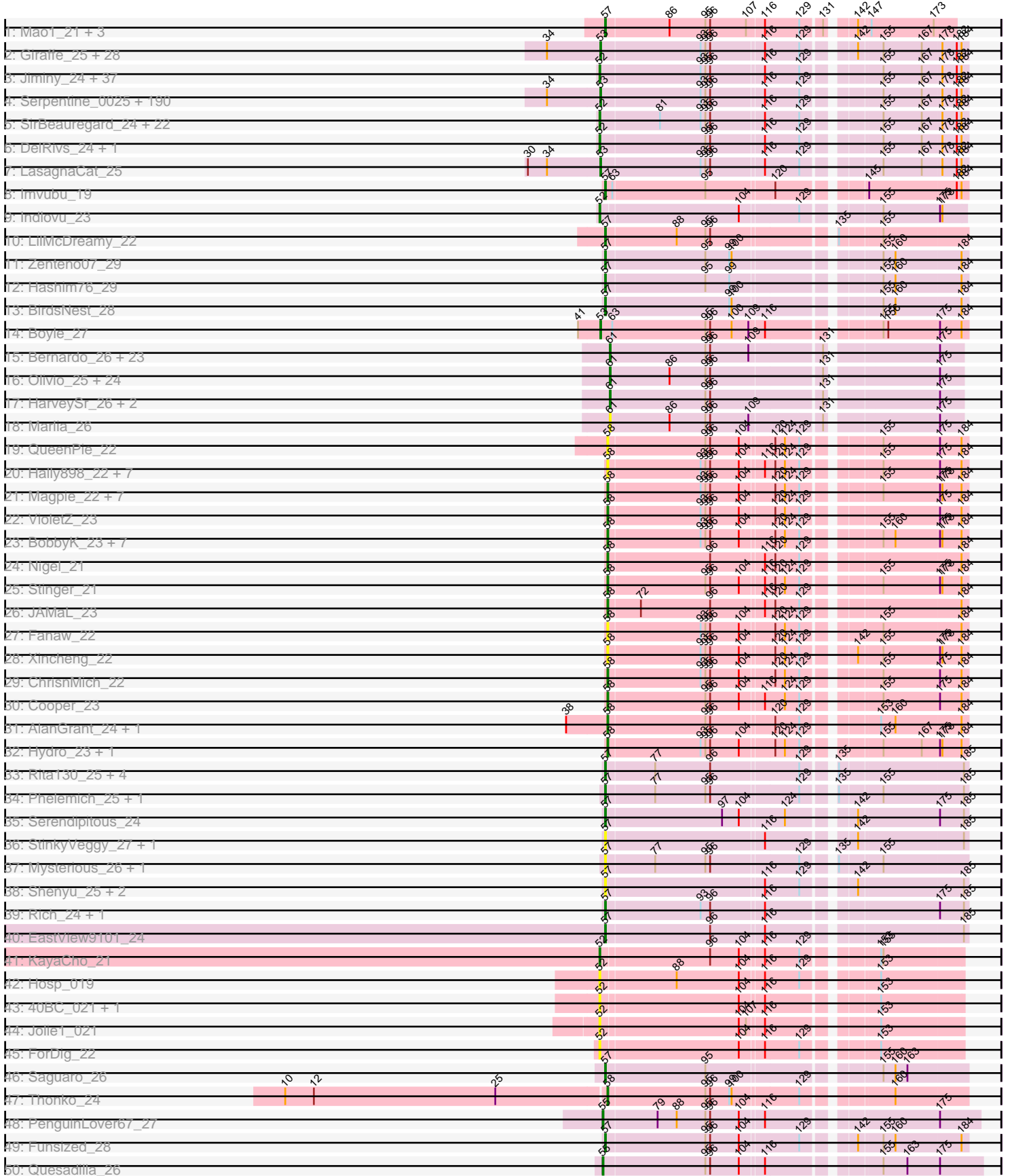
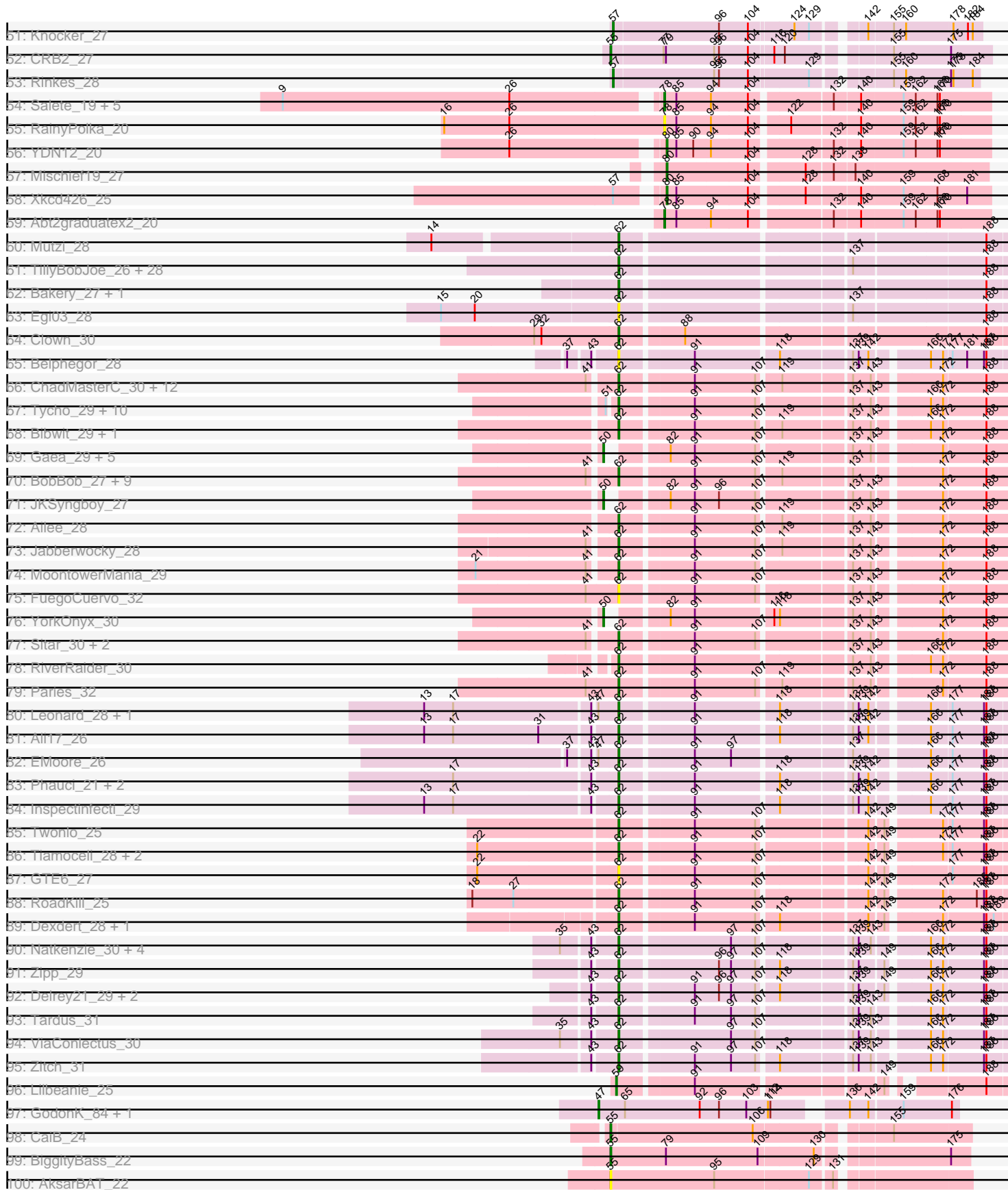


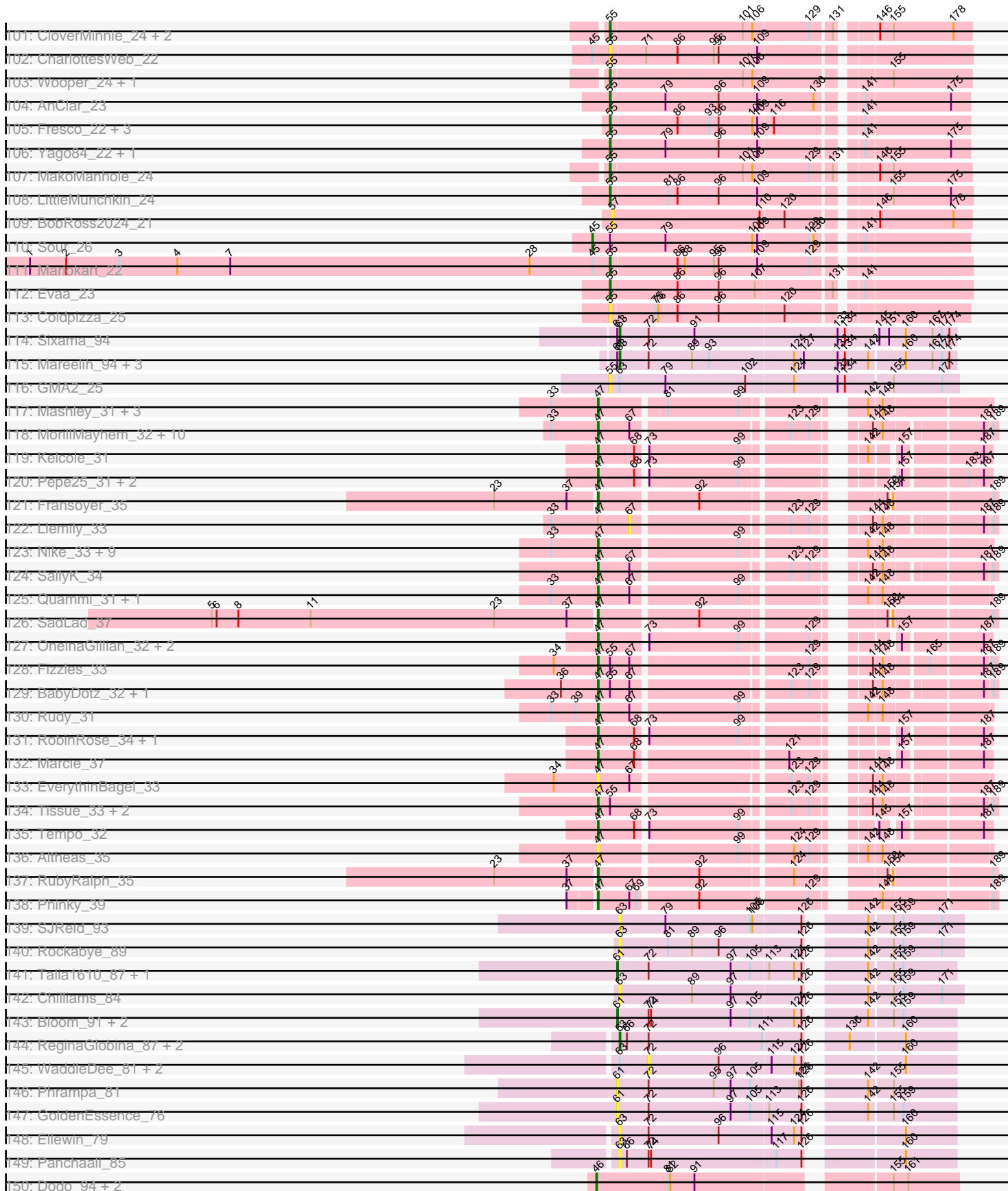
Pham 215663



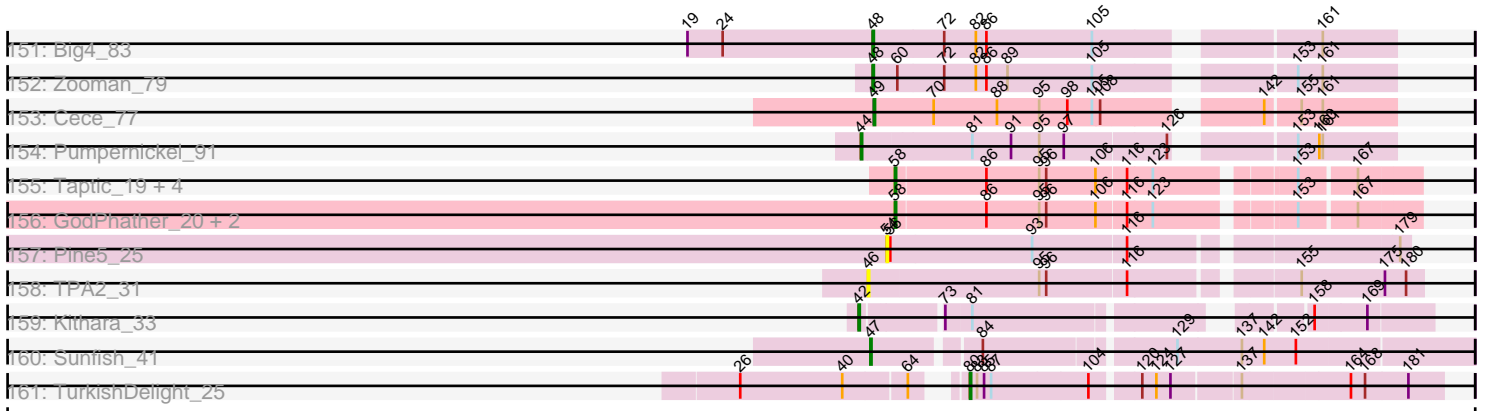
Pham 215663



Pham 215663



Pham 215663



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 215663 Report

This analysis was run 02/22/25 on database version 588.

Pham number 215663 has 667 members, 110 are drafts.

Phages represented in each track:

- Track 1 : Mao1_21, Mask_22, Dori_22, Sejanus_22
- Track 2 : Giraffe_25, Hetaeria_25, Oosterbaan_25, Potter_24, 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, Morty_25, FugateOSU_24, Vista_25, Placalicious_24, PG1_25
- Track 3 : Jiminy_24, DuchessDung_23, Derpp_24, Caspiboi_26, MrPhizzler_24, TyrionL_24, Oline_24, Maskar_24, Cornbread_25, Zonia_25, Hocus_24, Trypo_25, Plata_25, Etaye_25, Doddsville_25, JakeO_24, Schueller_24, JDog_24, Ashraf_24, ImtiyazSitla_24, Durga_25, Swiphy_26, GeneCoco_25, Dati_25, DaddyDaniels_25, Duggie_24, Longacauda_24, Melc17_25, Wallhey_24, Kwksand96_24, Brilliant_25, Struggle_24, Weher20_25, Vaishali24_24, PhatLouie_25, Labeouficaum_24, CharlieGBrown_24, Pinkman_24
- Track 4 : Serpentine_0025, Haimas_25, Banjo_24, Mikota_25, Nacho_0025, Murdoc_25, Chunky_25, Adriana_25, Nicole21_25, Kimbrough_25, Lumine_24, Maru_24, Burr_24, Selr12_25, Inchworm_25, OliverWalter_25, Valjean_25, Matalotodo_25, KingVeVeVe_25, UncleHowie_25, Olive_25, Iridoclysis_25, Gyarad_0025, Zelda_25, EmpTee_25, Mecca_24, Eugenia_25, Mulan_24, Prickles_25, FluffyNinja_25, Thora_25, LuckyMarjie_24, Riverton_24, AngelCake_24, Altwerkus_24, DirtJuice_25, Basato_26, Frankicide_25, Pops_25, Boehler_25, Thunderbird_24, KLucky39_25, Cher_24, Buckeye_25, Gwilliam_25, Skippy_25, SDcharge11_25, Antonia_24, Gareth_24, Megamind20_25, Newman_25, Kwadwo_24, Squid_25, Daffy_25, Cornobble_24, Olak_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, Serendipity_25, Sigman_25, Roy17_25, Lulwa_25, CheetO_25, Emiris_25, Spartan300_25, Cobra_25, Bluephacebaby_24, Dingo_25, Xavier_24, LeeLot_25, KlimbOn_25, PhrodoBaggins_24, Suffolk_25, PinheadLarry_25, Beaglebox_24, Jillium_24, Sophia_24, Lopsy_24, Surely_25, Slatt_25, Toni_24, Mosaic_24, ProfessorX_25, Solosis_24, Jesabah_25, Virapocalypse_25, Crownjwl_25, Roliet_25, Harvey_25, Plmatters_25, Pherdinand_25, Telesworld_24, SassyCat97_24, Badfish_25, Hertubise_25, QueenBeane_25, Childish_24, Fozzie_24, Omniscient_25, MiniBoss_25, Ricotta_24, Held_25, JangoPhett_25, Lego3393_25, Horchata_25, Lulumae_24, Nyala_24, Colbert_25, Phareon_25, AbsoluteMadLad_24, Inverness_25, Fang_25, SilverBell_25, YouGoGlencoco_25, Quisquiliae_25,

Waterdiva_25, LemonSlice_25, Charles1_25, Chipette_26, DonSanchon_24, Legolas_24, Cannibal_25, Gophee_25, HSavage_25, Eremos_25, Morgushi_25, Dice_24, Simielle_24, JacAttac_25, Carthage_23, Manad_24, Riggan_25, Puhltonio_25, Dione_24, Sheila_25, Mesh1_25, Samaymay_25, Timmi_24, True_24, Katniss_25, Daka_25, Squiggle_25, TomBombadil_25, AltPhacts_25, Phipps_25, Kloppinator_25, Craff_25, PhatCats2014_25, Soto_25, Zaider_26, Piglet_0024, Roscoe_26, CamL_25, HenryJackson_24, Phunky_25, Phamished_25, Fringe_25, Vaticameos_25, BlueHusk_25, Robyn_24, Orfeu_24, Podrick_25, FriarPreacher_25, ShiVal_25, Mesmerelda_25, CampRoach_25, Tooj_25, RedMaple_24, Pacifista_24, Orwigg_24, Anderson_25, Aelin_24, Jiraiya_24, Tomlarah_25, Vortex_25, Vivaldi_25

- Track 5 : SirBeauregard_24, Phleuron_24, BatteryCK_24, Nathan_26, Phergie_24, Magic8_25, OSmaximus_25, Veritas_24, Coletti_24, MichaelPhcott_24, Kailash_25, Chute_24, MelsMeow_24, Windsor_24, Keitherie_25, Virgeve_24, Mag7_24, PhrankReynolds_24, PhenghisKhan_24, Apizium_24, Khan1_25, Hartsy_25, Chaelin_24
- Track 6 : DelRivs_24, Soile_25
- Track 7 : LasagnaCat_25
- Track 8 : Imvubu_19
- Track 9 : Indlovu_23
- Track 10 : LilMcDreamy_22
- Track 11 : Zenteno07_29
- Track 12 : Hashim76_29
- Track 13 : BirdsNest_28
- Track 14 : Boyle_27
- Track 15 : Bernardo_26, Baloo_26, Briakila_26, Ben11_25, TinyTerror_26, MmasiCarm_26, Chalmers_26, GlenHope_27, Chentzyk_25, Audrey_26, Pipefish_26, Phlyer_26, SlippinJimmy_26, Marley1013_26, Heathcliff_26, Yahalom_26, Akoma_26, Kronus_25, Halfpint_25, Tydolla_26, Gadget_27, Gervas_26, Morty007_26, Mortcellus_25
- Track 16 : Olivio_25, Yinz_26, Glubnar_26, Chandler_26, OrangeOswald_26, RagingRooster_26, ChaChing_26, Athena_27, Neos5_26, Nozo_26, Corofin_26, Phayeta_26, Rita1961_26, SwainyDoc_26, Devonte_26, Obutu_26, Philly_25, Abinghost_26, Deenasa_26, Shenandoah_26, SynergyX_26, LestyG_26, Compostia_27, Casbah_25, Kamiyu_26
- Track 17 : HarveySr_26, RomaT_26, Daisy_26
- Track 18 : Marlia_26
- Track 19 : QueenPie_22
- Track 20 : Hally898_22, Antihero_22, Ahwei_22, Poster_22, Lambano_22, Epah_22, GinPorsche_22, Nanao_22
- Track 21 : Magpie_22, Hangman_23, Waleliano_23, BrownCNA_24, Mithril_23, JaguarMi_23, Zemanar_24, Heath_22
- Track 22 : VioletZ_23
- Track 23 : BobbyK_23, Prince_23, Mudslide_23, RawrgerThat_23, Frederick_23, Fortunato_23, Apex_23, Austelle_24
- Track 24 : Nigel_21
- Track 25 : Stinger_21
- Track 26 : JAMaL_23
- Track 27 : Fanaw_22
- Track 28 : Xincheng_22
- Track 29 : ChrisnMich_22
- Track 30 : Cooper_23
- Track 31 : AlanGrant_24, Vincenzo_24
- Track 32 : Hydro_23, Lolalove_23

- Track 33 : Rita130_25, SirJeffery_25, Acadian_25, Donny_25, Suigeneris_25
- Track 34 : Phelemich_25, Reprobate_25
- Track 35 : Serendipitous_24
- Track 36 : StinkyVeggy_27, KarasumaRum_27
- Track 37 : Mysterious_26, Nehemiah_24
- Track 38 : Shenyu_25, DigitDog_25, Nangang_25
- Track 39 : Rich_24, Bae_24
- Track 40 : EastView9101_24
- Track 41 : KayaCho_21
- Track 42 : Hosp_019
- Track 43 : 40BC_021, 39HC_021
- Track 44 : Jolie1_021
- Track 45 : ForDig_22
- Track 46 : Saguario_26
- Track 47 : Thonko_24
- Track 48 : PenguinLover67_27
- Track 49 : Funsized_28
- Track 50 : Quesadilla_26
- Track 51 : Knocker_27
- Track 52 : CRB2_27
- Track 53 : Rinkes_28
- Track 54 : Salete_19, Asis_19, BayC_19, BabyGotBac_19, Maih_19, TP1604_19
- Track 55 : RainyPolka_20
- Track 56 : YDN12_20
- Track 57 : Mischief19_27
- Track 58 : Xkcd426_25
- Track 59 : Abt2graduatex2_20
- Track 60 : Mutzi_28
- Track 61 : TillyBobJoe_26, Halo3_27, PinkCoffee_28, SmokingBunny_26, Fireball_27, KimmyK_28, Salvador_26, Twister6_28, Arri_29, VanDeWege_29, Valary_29, Togo_26, Danyall_28, Jambalaya_26, RogerDodger_29, Evamon_26, Phlop_26, Portcullis_26, Savbucketdawg_26, Wizard_26, Gezellig_27, PullumCavea_26, Fugax_28, CoveyB_29, Nubi_26, Shinji_26, ClamChowder_28, Barb_28, CherryCola_30
- Track 62 : Bakery_27, YungMoney_28
- Track 63 : Egi03_28
- Track 64 : Clown_30
- Track 65 : Belphegor_28
- Track 66 : ChadMasterC_30, Sanjuju_28, Shivanishola_31, Keitabear_30, Stultus_28, Charming_30, Kamashten_29, Affeca_28, Barsten_30, Kewpiedoll_29, Angelicage_28, Vivi2_32, Thing3_29
- Track 67 : Tycho_29, Baumdotcom_29, Ashertheman_30, Tangerine_29, Gustavo_29, LilHam_27, SchottB_28, Saronaya_29, StorminNorm_29, Kroos_30, Kwobi_30
- Track 68 : Bibwit_29, Sedona_30
- Track 69 : Gaea_29, Ribeye_30, Derg_25, Bizzy_30, Flatwoods_30, Baddon_29
- Track 70 : BobBob_27, Nordenberg_24, Brandonk123_31, Fosterous_28, McKinley_32, Tangent_30, Rofo_30, Geodirt_27, Love_33, Galadriel_30
- Track 71 : JKSyngboy_27
- Track 72 : Ailee_28
- Track 73 : Jabberwocky_28
- Track 74 : MoontowerMania_29
- Track 75 : FuegoCuervo_32

- Track 76 : YorkOnyx_30
- Track 77 : Sitar_30, Lennon_30, Fitzgerald_28
- Track 78 : RiverRaider_30
- Track 79 : Paries_32
- Track 80 : Leonard_28, Phinally_28
- Track 81 : Ali17_26
- Track 82 : EMoore_26
- Track 83 : Phauci_21, MelBins_29, Hans_30
- 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 : Dxdert_28, Kwekel_27
- Track 90 : Natkenzie_30, Sampson_30, Scioto_30, Abblin_30, APunk_31
- Track 91 : Zipp_29
- Track 92 : Delrey21_29, DoctorFroggo_29, Verity_29
- Track 93 : Tardus_31
- Track 94 : ViaConlectus_30
- Track 95 : Zitch_31
- Track 96 : Lilbeanie_25
- Track 97 : GodonK_84, Phendrix_82
- Track 98 : CaiB_24
- Track 99 : BiggityBass_22
- Track 100 : AksarBAT_22
- Track 101 : CloverMinnie_24, MossRose_24, AnarQue_24
- Track 102 : CharlottesWeb_22
- Track 103 : Wooper_24, Yeshua_24
- Track 104 : AnClar_23
- Track 105 : Fresco_22, Axumite_22, Shatter_22, Ligma_22
- Track 106 : Yago84_22, Sisko_22
- Track 107 : MakoManhole_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 : Sixama_94
- Track 115 : Mareelih_94, BlueNGold_95, Forza_96, Boopy_96
- Track 116 : GMA2_25
- Track 117 : Mashley_31, Gazebo_32, Blab_31, AluminumJesus_31
- Track 118 : MorillMayhem_32, Sillytadpoles_34, Phabia_33, Jehoshaphat_35, Teehee_34, Lonelysoil_32, Zhafia_36, Wheelie_32, DonaldDuck_33, Casend_34, Wayne3_34
- Track 119 : Kelcole_31
- Track 120 : Pepe25_31, Wilca_32, BirdInFrench_32
- Track 121 : Fransoyer_35
- Track 122 : Llemily_33
- Track 123 : Nike_33, Zagie_33, Hyperion_32, Grassboy_34, Squash_35, StrawberryJamm_35, Kyva_35, Namago_33, Rowlf_29, Mentos_38
- Track 124 : SallyK_34
- Track 125 : Quammi_31, Viceroy_32

- Track 126 : SadLad_37
- Track 127 : OneinaGillian_32, Fregley_33, CandC_31
- Track 128 : Fizzles_33
- Track 129 : BabyDotz_32, Statler_35
- Track 130 : Rudy_31
- Track 131 : RobinRose_34, Romm_34
- Track 132 : Marcie_37
- Track 133 : EverythinBagel_33
- Track 134 : Tissue_33, Judebell_35, FrankDeliGuy_31
- Track 135 : Tempo_32
- Track 136 : Altheas_35
- Track 137 : RubyRalph_35
- Track 138 : Phinky_39
- Track 139 : SJReid_93
- Track 140 : Rockabye_89
- Track 141 : Talia1610_87, Patbob_88
- Track 142 : Chilliams_84
- Track 143 : Bloom_91, Racecar_88, Mimi_87
- Track 144 : ReginaGlobina_87, Atuin_82, LeoJr_87
- Track 145 : WaddleDee_81, KSunshine22_82, DunneganBoMo_81
- Track 146 : Phrampa_81
- Track 147 : GoldenEssence_76
- Track 148 : Ellewin_79
- Track 149 : Panchaali_85
- Track 150 : Dodo_94, A3Wally_94, PauloDiaboli_94
- Track 151 : Big4_83
- Track 152 : Zooman_79
- Track 153 : Cece_77
- Track 154 : Pumpnickel_91
- Track 155 : Taptic_19, PR_19, Megabear_19, Cepens_19, D12_19
- Track 156 : GodPhather_20, Argie_20, Jeon_19
- Track 157 : Pine5_25
- Track 158 : TPA2_31
- Track 159 : Kithara_33
- Track 160 : Sunfish_41
- Track 161 : TurkishDelight_25

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

The start number called the most often in the published annotations is 53, it was called in 213 of the 557 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABU_25, AbsoluteMadLad_24, Adriana_25, Aelin_24, AltPhacts_25, Altwerkus_24, Anderson_25, Andre_25, AngelCake_24, Antonia_24, Badfish_25, Banjo_24, Basato_26, Beaglebox_24, Bishoperium_24, BlackStallion_25, BlueHusk_25, Bluephacebaby_24, Bohler_25, Boyle_27, Buckeye_25, Burr_24, CamL_25, CampRoach_25, Cannibal_25, Carthage_23, Charles1_25, CheetO_25, Cher_24, Childish_24, Chipette_26, Chorkpop_25, Chunky_25, Cobra_25, Colbert_25, Cornobble_24, Cosmolli16_24, Craff_25, Crownjwl_25, Daffy_25, Daka_25, Dice_24,

Dingo_25, Dione_24, DirtJuice_25, DoesntMatter_25, DonSanchon_24, Emiris_25, EmpTee_25, Eremos_25, Eugenia_25, Fang_25, FluffyNinja_25, Fozzie_24, Frankicide_25, Freya_24, FriarPreacher_25, Fringe_25, FugateOSU_24, Gareth_24, Giraffe_25, Gophee_25, Grand2040_24, Gwilliam_25, Gyarad_0025, HSavage_25, Haimas_25, Haleema_24, Hamish_25, Harvey_25, Held_25, HenryJackson_24, Hertubise_25, Hetaeria_25, HighStump_24, Horchata_25, Inchworm_25, Inverness_25, Iridoclysis_25, IsaacEli_25, JacAttac_25, JangoPhett_25, Jesabah_25, Jillium_24, Jiraiya_24, KLucky39_25, Kahve_24, Katniss_25, Kikipoo_25, Kimbrough_25, KingVeVeVe_25, KlimbOn_25, Kloppinator_25, Kwadwo_24, LasagnaCat_25, Lasso_25, LeeLot_25, Lego3393_25, Legolas_24, LeiMonet_25, LemonSlice_25, Lopsy_24, LostAndPhound_24, LuckyMarjie_24, Lulumae_24, Lulwa_25, Lumine_24, MRabcd_24, Mana_24, Manad_24, Maru_24, Matalotodo_25, Mcshane_24, Mecca_24, Megamind20_25, Megatron_25, Mesh1_25, Mesmerelda_25, Mikota_25, MiniBoss_25, MitKao_25, Morgushi_25, Morty_25, Mosaic_24, Mulan_24, Murdoc_25, Mutante_24, Nacho_0025, Newman_25, Nicole21_25, Numberten_25, Nyala_24, Olak_24, Olive_25, OliverWalter_25, Omniscient_25, Oosterbaan_25, Orfeu_24, Orion_25, Orwigg_24, PG1_25, Pacifista_24, Phamished_25, Phareon_25, PhatCats2014_25, Pherdinand_25, Phipps_25, PhrodoBaggins_24, Phunky_25, Piglet_0024, PinheadLarry_25, Pipsqueak_25, Placalicious_24, Plmatters_25, Podrick_25, Pops_25, Potter_24, Prickles_25, ProfessorX_25, Puhltonio_25, QueenBeane_25, Quisquillae_25, RedMaple_24, Ricotta_24, Riggan_25, Riverton_24, Robyn_24, Roliet_25, Roscoe_26, Roy17_25, SDcharge11_25, Samaymay_25, SassyCat97_24, Schadenfreude_24, Scoot17C_25, Scrick_25, Selr12_25, Serendipity_25, Serpentine_0025, Sheila_25, ShiVal_25, Sigman_25, SilverBell_25, Simielle_24, Skippy_25, Slatt_25, Solosis_24, Sophia_24, Soto_25, Spartan300_25, Squid_25, Squiggle_25, Suffolk_25, Surely_25, Swish_25, TallGrassMM_25, Telesworld_24, Thora_25, ThreeOh3D2_25, Thunderbird_24, Timmi_24, TomBombadil_25, Tomlarah_25, Toni_24, TooFast2Furius_26, Tooj_25, True_24, UAch1_25, UncleHowie_25, Usavi_25, Valjean_25, Vaticameos_25, Virapocalypse_25, Vista_25, Vivaldi_25, Vortex_25, Waterdiva_25, Xavier_24, Yoshand_25, YouGoGlencoco_25, Zaider_26, Zelda_25,

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

-

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

- 39HC_021, 40BC_021, A3Wally_94, APunk_31, Abblin_30, Abinghost_26, Abt2graduatex2_20, Acadian_25, Affeca_28, Ahwei_22, Ailee_28, Akoma_26, AksarBAT_22, AlanGrant_24, Ali17_26, Altheas_35, AluminumJesus_31, AnClar_23, AnarQue_24, Angelicage_28, Antihero_22, Apex_23, Apizium_24, Argie_20, Arri_29, Ashertheman_30, Ashraf_24, Asis_19, Athena_27, Atuin_82, Audrey_26, Austelle_24, Axumite_22, BabyDotz_32, BabyGotBac_19, Baddon_29, Bae_24, Bakery_27, Baloo_26, Barb_28, Barsten_30, BatteryCK_24, Baumdotcom_29, BayC_19, Belphegor_28, Ben11_25, Bernardo_26, Bibwit_29, Big4_83, BiggityBass_22, BirdInFrench_32, BirdsNest_28, Bizzy_30, Blab_31, Bloom_91, BlueNGold_95, BobBob_27, BobRoss2024_21, BobbyK_23, Boopy_96, Brandonk123_31, Briakila_26, Brilliant_25, BrownCNA_24, CRB2_27, CaiB_24, CandC_31, Casbah_25, Casend_34, Caspiwai_26, Cece_77, Cepens_19, ChaChing_26, ChadMasterC_30, Chaelin_24, Chalmers_26, Chandler_26, CharlieGBrown_24, CharlottesWeb_22, Charming_30, Chentzyk_25, CherryCola_30, Chickadee_27, Chilliams_84, ChrisnMich_22, Chute_24, ClamChowder_28, CloverMinnie_24, Clown_30, Coldpizza_25, Coletti_24, Compostia_27, Cooper_23,

Cornbread_25, Corofin_26, CoveyB_29, D12_19, DaddyDaniels_25, Daisy_26, Danyall_28, Dati_25, Deenasa_26, DelRivs_24, Delrey21_29, Derg_25, Derpp_24, Devonte_26, Dexdert_28, DigitDog_25, DoctorFroggo_29, Doddsville_25, Dodo_94, DonaldDuck_33, Donny_25, Dori_22, DuchessDung_23, Duggie_24, DunneganBoMo_81, Durga_25, EMOore_26, EastView9101_24, EdmundFerry_26, Egi03_28, Ellewin_79, Epah_22, Etaye_25, Evaa_23, Evamon_26, EverythinBagel_33, Fanaw_22, Fireball_27, Fitzgerald_28, Fizzles_33, Flatwoods_30, ForDig_22, Fortunato_23, Forza_96, Fosterous_28, FrankDeliGuy_31, Fransoyer_35, Frederick_23, Fregley_33, Fresco_22, FuegoCuervo_32, Fugax_28, Funsized_28, GMA2_25, GTE6_27, Gadget_27, Gaea_29, Galadriel_30, Gazebo_32, GeneCoco_25, Geodirt_27, Gervas_26, Gezellig_27, GinPorsche_22, GlenHope_27, Glubnar_26, GodPhather_20, GodonK_84, GoldenEssence_76, Grassboy_34, Gustavo_29, Halfpint_25, Hally898_22, Halo3_27, Hangman_23, Hans_30, Hartsy_25, HarveySr_26, Hashim76_29, Heath_22, Heathcliff_26, Hocus_24, Hosp_019, Hydro_23, Hyperion_32, ImtiyazSitla_24, Imvubu_19, Indlovu_23, Inspectinfecti_29, JAMaL_23, JDog_24, JKSyngboy_27, Jabberwocky_28, JaguarMi_23, JakeO_24, Jambalaya_26, Jehoshaphat_35, Jeon_19, Jiminy_24, Jolie1_021, Judebell_35, KSunshine22_82, Kailash_25, Kamashten_29, Kamiyu_26, KarasumaRum_27, KayaCho_21, Keitabear_30, Keitherie_25, Kelcole_31, Kewpiedoll_29, Khan1_25, KimmyK_28, Kithara_33, Knocker_27, Kronus_25, Kroos_30, Kwekel_27, Kwksand96_24, Kwobi_30, Kyva_35, Labeouficaum_24, Lambano_22, Lennon_30, LeoJr_87, Leonard_28, LestyG_26, Ligma_22, LilHam_27, LilMcDreamy_22, Lilbeanie_25, LittleMunchkin_24, Llemily_33, Lolalove_23, Lonelysoil_32, Longacauda_24, Love_33, Mag7_24, Magic8_25, Magpie_22, Maih_19, MakoManhole_24, Mao1_21, Marcie_37, Mareelih_94, Mariokart_22, Marley1013_26, Marlia_26, Mashley_31, Mask_22, Maskar_24, McKinley_32, Megabear_19, MelBins_29, Melc17_25, MelsMeow_24, Mentos_38, MichaelPhcott_24, Mimi_87, Mischief19_27, Mithril_23, MmasiCarm_26, MoontowerMania_29, MorillMayhem_32, Mortcellus_25, Morty007_26, MossRose_24, MrPhizzler_24, Mudslide_23, Mutzi_28, Mysterious_26, Namago_33, Nanao_22, Nangang_25, Nathan_26, Natkenzie_30, Nehemiah_24, Neos5_26, Nigel_21, Nike_33, Nordenberg_24, Nozo_26, Nubi_26, OSmaximus_25, Obutu_26, Oline_24, Olivio_25, OneinaGillian_32, OrangeOswald_26, PR_19, Panchaali_85, Paries_32, Patbob_88, PauloDiaboli_94, PenguinLover67_27, Pepe25_31, Phabia_33, PhatLouie_25, Phauci_21, Phayeta_26, Phelemich_25, Phendrix_82, PhenghisKhan_24, Phergie_24, Philly_25, Phinally_28, Phinky_39, Phleuron_24, Phlop_26, Phlyer_26, Phrampa_81, PhrankReynolds_24, Pine5_25, PinkCoffee_28, Pinkman_24, Pipefish_26, Plata_25, Portcullis_26, Poster_22, Prince_23, PullumCavea_26, Pumpernickel_91, Quammi_31, QueenPie_22, Quesadilla_26, Racecar_88, RagingRooster_26, RainyPolka_20, RawrgerThat_23, ReginaGlobina_87, Reprobate_25, Ribeye_30, Rich_24, Rinkes_28, Rita130_25, Rita1961_26, RiverRaider_30, RoadKill_25, RobinRose_34, Rockabye_89, Rofo_30, RogerDodger_29, RomaT_26, Romm_34, Rowlf_29, RubyRalph_35, Rudy_31, SJReid_93, SadLad_37, Saguaro_26, Salete_19, SallyK_34, Salvador_26, Sampson_30, Sanjuju_28, Saronaya_29, Savbucketdawg_26, SchottB_28, Schueller_24, Scioto_30, Sedona_30, Sejanus_22, Serendipitous_24, Shatter_22, Shenandoah_26, Shenyu_25, Shinji_26, Shivanishola_31, Sillytadpoles_34, SirBeauregard_24, SirJeffery_25, Sisko_22, Sitar_30, Sixama_94, SlippinJimmy_26, SmokingBunny_26, Soile_25, Sour_26, Squash_35, Statler_35, Stinger_21, StinkyVeggy_27, StorminNorm_29, StrawberryJamm_35, Struggle_24, Stultus_28, Suigeneris_25, Sunfish_41, SwainyDoc_26, Swiphy_26, SynergyX_26, TP1604_19, TPA2_31, Talia1610_87, Tangent_30, Tangerine_29, Taptic_19, Tardus_31, Teehee_34, Tempo_32, Thing3_29, Thonko_24, Tiamoceli_28, TillyBobJoe_26,

TinyTerror_26, Tissue_33, Togo_26, Trypo_25, TurkishDelight_25, Twister6_28, Twonlo_25, Tycho_29, Tydolla_26, TyrionL_24, Vaishali24_24, Valary_29, VanDeWege_29, Veritas_24, Verity_29, ViaConlectus_30, Viceroy_32, Vincenzo_24, VioletZ_23, Virgeve_24, Vivi2_32, WaddleDee_81, Waleliano_23, Wallhey_24, Wayne3_34, Weher20_25, Wheelie_32, Wilca_32, Windsor_24, Wizard_26, Wooper_24, Xincheng_22, Xkcd426_25, YDN12_20, Yago84_22, Yahalom_26, Yeshua_24, Yinz_26, YorkOnyx_30, YungMoney_28, Zagie_33, Zemanar_24, Zenteno07_29, Zhafia_36, Zipp_29, Zitch_31, Zonia_25, Zooman_79,

Summary by start number:

Start 42:

- Found in 1 of 667 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kithara_33 (singleton),

Start 44:

- Found in 1 of 667 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpernickel_91 (GD4),

Start 45:

- Found in 3 of 667 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 557
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Sour_26 (DR),

Start 46:

- Found in 4 of 667 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_94 (GD1), Dodo_94 (GD1), PauloDiaboli_94 (GD1), TPA2_31 (singleton),

Start 47:

- Found in 59 of 667 (8.8%) of genes in pham
- Manual Annotations of this start: 43 of 557
- Called 93.2% of time when present
- Phage (with cluster) where this start called: Altheas_35 (EG), AluminumJesus_31 (EG), BabyDotz_32 (EG), BirdInFrench_32 (EG), Blab_31 (EG), CandC_31 (EG), Casend_34 (EG), DonaldDuck_33 (EG), EverythinBagel_33 (EG), Fizzles_33 (EG), FrankDeliGuy_31 (EG), Fransoyer_35 (EG), Fregley_33 (EG), Gazebo_32 (EG), GodonK_84 (DK), Grassboy_34 (EG), Hyperion_32 (EG), Jehoshaphat_35 (EG), Judebell_35 (EG), Kelcole_31 (EG), Kyva_35 (EG), Lonelysoil_32 (EG), Marcie_37 (EG), Mashley_31 (EG), Mentos_38 (EG), MorillMayhem_32 (EG), Namago_33 (EG), Nike_33 (EG), OneinaGillian_32 (EG), Pepe25_31 (EG), Phabia_33 (EG), Phendrix_82 (DK), Phinky_39 (EG), Quammi_31 (EG), RobinRose_34 (EG), Romm_34 (EG), Rowlf_29 (EG), RubyRalph_35 (EG), Rudy_31 (EG), SadLad_37 (EG), SallyK_34 (EG), Sillytadpoles_34 (EG), Squash_35 (EG), Statler_35 (EG), StrawberryJamm_35 (EG), Sunfish_41 (singleton), Teehee_34 (EG), Tempo_32 (EG), Tissue_33 (EG), Viceroy_32 (EG), Wayne3_34 (EG), Wheelie_32 (EG),

Wilca_32 (EG), Zagie_33 (EG), Zhafia_36 (EG),

Start 48:

- Found in 2 of 667 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Big4_83 (GD2), Zooman_79 (GD2),

Start 49:

- Found in 1 of 667 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_77 (GD3),

Start 50:

- Found in 8 of 667 (1.2%) of genes in pham
- Manual Annotations of this start: 8 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Baddon_29 (DE1), Bizzy_30 (DE1), Derg_25 (DE1), Flatwoods_30 (DE1), Gaea_29 (DE1), JKSyngboy_27 (DE1), Ribeye_30 (DE1), YorkOnyx_30 (DE1),

Start 52:

- Found in 70 of 667 (10.5%) of genes in pham
- Manual Annotations of this start: 55 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_021 (B6), 40BC_021 (B6), Apizium_24 (B1), Ashraf_24 (B1), BatteryCK_24 (B1), Brilliant_25 (B1), Caspiboi_26 (B1), Chaelin_24 (B1), CharlieGBrown_24 (B1), Chute_24 (B1), Coletti_24 (B1), Cornbread_25 (B1), DaddyDaniels_25 (B1), Dati_25 (B1), DelRivs_24 (B1), Derpp_24 (B1), Doddsville_25 (B1), DuchessDung_23 (B1), Duggie_24 (B1), Durga_25 (B1), Etaye_25 (B1), ForDig_22 (B6), GeneCoco_25 (B1), Hartsy_25 (B1), Hocus_24 (B1), Hosp_019 (B6), ImtiyazSitla_24 (B1), Indlovu_23 (B11), JDog_24 (B1), JakeO_24 (B1), Jiminy_24 (B1), Jolie1_021 (B6), Kailash_25 (B1), KayaCho_21 (B6), Keitherie_25 (B1), Khan1_25 (B1), Kwksand96_24 (B1), Labeouficaum_24 (B1), Longacauda_24 (B1), Mag7_24 (B1), Magic8_25 (B1), Maskar_24 (B1), Melc17_25 (B1), MelsMeow_24 (B1), MichaelPhcott_24 (B1), MrPhizzler_24 (B1), Nathan_26 (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), Schueller_24 (B1), SirBeauregard_24 (B1), Soile_25 (B1), Struggle_24 (B1), Swiphy_26 (B1), Trypo_25 (B1), TyrionL_24 (B1), Vaishali24_24 (B1), Veritas_24 (B1), Virgeve_24 (B1), Wallhey_24 (B1), Weher20_25 (B1), Windsor_24 (B1), Zonia_25 (B1),

Start 53:

- Found in 222 of 667 (33.3%) of genes in pham
- Manual Annotations of this start: 213 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ABU_25 (B1), AbsoluteMadLad_24 (B1), Adriana_25 (B1), Aelin_24 (B1), AltPhacts_25 (B1), Altwerkus_24 (B1), Anderson_25 (B1), Andre_25 (B1), AngelCake_24 (B1), Antonia_24 (B1), Badfish_25 (B1), Banjo_24 (B1), Basato_26 (B1), Beaglebox_24 (B1), Bishoperium_24 (B1), BlackStallion_25 (B1), BlueHusk_25 (B1), Bluephacebaby_24 (B1), Boehler_25 (B1),

Boyle_27 (B2), Buckeye_25 (B1), Burr_24 (B1), 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), Colbert_25 (B1), Cornobble_24 (B1), Cosmolli16_24 (B1), Craff_25 (B1), Crownjwl_25 (B1), Daffy_25 (B1), Daka_25 (B1), Dice_24 (B1), Dingo_25 (B1), Dione_24 (B1), DirtJuice_25 (B1), DoesntMatter_25 (B1), DonSanchon_24 (B1), Emiris_25 (B1), EmpTee_25 (B1), Eremos_25 (B1), Eugenia_25 (B1), Fang_25 (B1), FluffyNinja_25 (B1), Fozzie_24 (B1), Frankicide_25 (B1), Freya_24 (B1), FriarPreacher_25 (B1), Fringe_25 (B1), FugateOSU_24 (B1), Gareth_24 (B1), Giraffe_25 (B1), Gophee_25 (B1), Grand2040_24 (B1), Gwilliam_25 (B1), Gyarad_0025 (B1), HSavage_25 (B1), Haimas_25 (B1), Haleema_24 (B1), Hamish_25 (B1), Harvey_25 (B1), Held_25 (B1), HenryJackson_24 (B1), Hertubise_25 (B1), Hetaeria_25 (B1), HighStump_24 (B1), Horchata_25 (B1), Inchworm_25 (B1), Inverness_25 (B1), Iridoclysis_25 (B1), IsaacEli_25 (B1), JacAttac_25 (B1), JangoPhett_25 (B1), Jesabah_25 (B1), Jillium_24 (B1), Jiraiya_24 (B1), KLucky39_25 (B1), Kahve_24 (B1), Katniss_25 (B1), Kikipoo_25 (B1), Kimbrough_25 (B1), KingVeVeVe_25 (B1), KlimbOn_25 (B1), Kloppinator_25 (B1), Kwadwo_24 (B1), LasagnaCat_25 (B1), Lasso_25 (B1), LeeLot_25 (B1), Lego3393_25 (B1), Legolas_24 (B1), LeiMonet_25 (B1), LemonSlice_25 (B1), 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), Matalotodo_25 (B1), Mcshane_24 (B1), Mecca_24 (B1), Megamind20_25 (B1), Megatron_25 (B1), Mesh1_25 (B1), Mesmerelda_25 (B1), Mikota_25 (B1), MiniBoss_25 (B1), MitKao_25 (B1), Morgushi_25 (B1), Morty_25 (B1), Mosaic_24 (B1), Mulan_24 (B1), Murdoc_25 (B1), Mutante_24 (B1), Nacho_0025 (B1), Newman_25 (B1), Nicole21_25 (B1), Numberten_25 (B1), Nyala_24 (B1), Olak_24 (B1), Olive_25 (B1), OliverWalter_25 (B1), Omniscient_25 (B1), Oosterbaan_25 (B1), Orfeu_24 (B1), Orion_25 (B1), Orwigg_24 (B1), PG1_25 (B1), Pacifista_24 (B1), Phamished_25 (B1), Phareon_25 (B1), PhatCats2014_25 (B1), Pherdinand_25 (B1), Phipps_25 (B1), PhrodoBaggins_24 (B1), Phunky_25 (B1), Piglet_0024 (B1), PinheadLarry_25 (B1), Pipsqueak_25 (B1), Placalicious_24 (B1), Plmatters_25 (B1), Podrick_25 (B1), Pops_25 (B1), Potter_24 (B1), Prickles_25 (B1), ProfessorX_25 (B1), Puhltonio_25 (B1), QueenBeane_25 (B1), Quisquiliae_25 (B1), RedMaple_24 (B1), Ricotta_24 (B1), Riggan_25 (B1), Riverton_24 (B1), Robyn_24 (B1), Roliet_25 (B1), Roscoe_26 (B1), Roy17_25 (B1), SDcharge11_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), 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), TallGrassMM_25 (B1), Telesworld_24 (B1), Thora_25 (B1), ThreeOh3D2_25 (B1), Thunderbird_24 (B1), Timmi_24 (B1), TomBombadil_25 (B1), Tomlarah_25 (B1), Toni_24 (B1), TooFast2Furius_26 (B1), Tooj_25 (B1), True_24 (B1), UAch1_25 (B1), UncleHowie_25 (B1), Usavi_25 (B1), Valjean_25 (B1), Vaticameos_25 (B1), Virapocalypse_25 (B1), Vista_25 (B1), Vivaldi_25 (B1), Vortex_25 (B1), Waterdiva_25 (B1), Xavier_24 (B1), Yoshand_25 (B1), YouGoGlencoco_25 (B1), Zaidler_26 (B1), Zelda_25 (B1),

Start 54:

- Found in 1 of 667 (0.1%) 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 55:

- Found in 32 of 667 (4.8%) of genes in pham
- Manual Annotations of this start: 20 of 557
- Called 78.1% 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), CRB2_27 (B9), CaiB_24 (DR), CharlottesWeb_22 (DR), CloverMinnie_24 (DR), Coldpizza_25 (DR), Evaa_23 (DR), Fresco_22 (DR), GMA2_25 (DS), Ligma_22 (DR), LittleMunchkin_24 (DR), MakoManhole_24 (DR), Mariokart_22 (DR), MossRose_24 (DR), PenguinLover67_27 (B9), Quesadilla_26 (B9), Shatter_22 (DR), Sisko_22 (DR), Wooper_24 (DR), Yago84_22 (DR), Yeshua_24 (DR),

Start 57:

- Found in 33 of 667 (4.9%) of genes in pham
- Manual Annotations of this start: 22 of 557
- Called 97.0% of time when present
- Phage (with cluster) where this start called: Acadian_25 (B5), Bae_24 (B5), BirdsNest_28 (B13), BobRoss2024_21 (DR), DigitDog_25 (B5), Donny_25 (B5), Dori_22 (AD), EastView9101_24 (B5), Funsized_28 (B9), Hashim76_29 (B13), Imvubu_19 (B10), KarasumaRum_27 (B5), Knocker_27 (B9), LilMcDreamy_22 (B12), Mao1_21 (AD), Mask_22 (AD), Mysterious_26 (B5), Nangang_25 (B5), Nehemiah_24 (B5), Phelemich_25 (B5), Reprobate_25 (B5), Rich_24 (B5), Rinkes_28 (B9), Rita130_25 (B5), Saguario_26 (B7), Sejanus_22 (AD), Serendipitous_24 (B5), Shenyu_25 (B5), SirJeffery_25 (B5), StinkyVeggy_27 (B5), Suigeneris_25 (B5), Zenteno07_29 (B13),

Start 58:

- Found in 46 of 667 (6.9%) of genes in pham
- Manual Annotations of this start: 34 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ahwei_22 (B4), AlanGrant_24 (B4), Antihero_22 (B4), Apex_23 (B4), Argie_20 (W), Austelle_24 (B4), BobbyK_23 (B4), BrownCNA_24 (B4), Cepens_19 (W), ChrisnMich_22 (B4), Cooper_23 (B4), D12_19 (W), Epah_22 (B4), Fanaw_22 (B4), Fortunato_23 (B4), Frederick_23 (B4), GinPorsche_22 (B4), GodPhather_20 (W), Hally898_22 (B4), Hangman_23 (B4), Heath_22 (B4), Hydro_23 (B4), JAMaL_23 (B4), JaguarMi_23 (B4), Jeon_19 (W), Lambano_22 (B4), Lolalove_23 (B4), Magpie_22 (B4), Megabear_19 (W), Mithril_23 (B4), Mudslide_23 (B4), Nanao_22 (B4), Nigel_21 (B4), PR_19 (W), Poster_22 (B4), Prince_23 (B4), QueenPie_22 (B4), RawrgerThat_23 (B4), Stinger_21 (B4), Taptic_19 (W), Thonko_24 (B8), Vincenzo_24 (B4), VioletZ_23 (B4), Waleliano_23 (B4), Xincheng_22 (B4), Zemanar_24 (B4),

Start 59:

- Found in 1 of 667 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lilbeanie_25 (DE5),

Start 61:

- Found in 65 of 667 (9.7%) of genes in pham
- Manual Annotations of this start: 46 of 557
- Called 92.3% of time when present

- Phage (with cluster) where this start called: Abinghost_26 (B3), Akoma_26 (B3), Athena_27 (B3), Audrey_26 (B3), Baloo_26 (B3), Ben11_25 (B3), Bernardo_26 (B3), Bloom_91 (FC), Briakila_26 (B3), Casbah_25 (B3), ChaChing_26 (B3), Chalmers_26 (B3), Chandler_26 (B3), Chentzyk_25 (B3), Compostia_27 (B3), Corofin_26 (B3), Daisy_26 (B3), Deenasa_26 (B3), Devonte_26 (B3), Gadget_27 (B3), Gervas_26 (B3), GlenHope_27 (B3), Glubnar_26 (B3), GoldenEssence_76 (FC), Halfpint_25 (B3), HarveySr_26 (B3), Heathcliff_26 (B3), Kamiyu_26 (B3), Kronus_25 (B3), LestyG_26 (B3), Marley1013_26 (B3), Marlia_26 (B3), Mimi_87 (FC), MmasiCarm_26 (B3), Mortcellus_25 (B3), Morty007_26 (B3), Neos5_26 (B3), Nozo_26 (B3), Obutu_26 (B3), Olivio_25 (B3), OrangeOswald_26 (B3), Patbob_88 (FC), Phayeta_26 (B3), Philly_25 (B3), Phlyer_26 (B3), Phrampa_81 (FC), Pipefish_26 (B3), Racecar_88 (FC), RagingRooster_26 (B3), Rita1961_26 (B3), RomaT_26 (B3), Shenandoah_26 (B3), SlippinJimmy_26 (B3), SwainyDoc_26 (B3), SynergyX_26 (B3), Talia1610_87 (FC), TinyTerror_26 (B3), Tydolla_26 (B3), Yahalom_26 (B3), Yinz_26 (B3),

Start 62:

- Found in 108 of 667 (16.2%) of genes in pham
- Manual Annotations of this start: 90 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk_31 (DE4), Abblin_30 (DE4), Affeca_28 (DE1), Ailee_28 (DE1), Ali17_26 (DE2), Angelicage_28 (DE1), Arri_29 (DC1), Ashertheman_30 (DE1), Bakery_27 (DC1), Barb_28 (DC1), Barsten_30 (DE1), Baumdotcom_29 (DE1), Belphegor_28 (DE), Bibwit_29 (DE1), BobBob_27 (DE1), Brandonk123_31 (DE1), ChadMasterC_30 (DE1), Charming_30 (DE1), CherryCola_30 (DC1), Chickadee_27 (DE3), ClamChowder_28 (DC1), Clown_30 (DC2), CoveyB_29 (DC1), Danyall_28 (DC1), Delrey21_29 (DE4), Dexdert_28 (DE3), DoctorFroggo_29 (DE4), EMoore_26 (DE2), EdmundFerry_26 (DE3), Egi03_28 (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_27 (DC1), Gustavo_29 (DE1), Halo3_27 (DC1), Hans_30 (DE2), Inspectinfecti_29 (DE2), Jabberwocky_28 (DE1), Jambalaya_26 (DC1), Kamashten_29 (DE1), Keitabear_30 (DE1), Kewpiedoll_29 (DE1), KimmyK_28 (DC1), Kroos_30 (DE1), Kwekel_27 (DE3), Kwobi_30 (DE1), Lennon_30 (DE1), Leonard_28 (DE2), LilHam_27 (DE1), Love_33 (DE1), McKinley_32 (DE1), MelBins_29 (DE2), MoontowerMania_29 (DE1), Mutzi_28 (DC1), Natkenzie_30 (DE4), Nordenberg_24 (DE1), Nubi_26 (DC1), Paries_32 (DE1), Phauci_21 (DE2), Phinally_28 (DE2), Phlop_26 (DC1), PinkCoffee_28 (DC1), Portcullis_26 (DC1), PullumCavea_26 (DC1), RiverRaider_30 (DE1), RoadKill_25 (DE3), Rofo_30 (DE1), RogerDodger_29 (DC1), Salvador_26 (DC1), Sampson_30 (DE4), Sanjuju_28 (DE1), Saronaya_29 (DE1), Savbucketdawg_26 (DC1), SchottB_28 (DE1), Scioto_30 (DE4), Sedona_30 (DE1), Shinji_26 (DC1), Shivanishola_31 (DE1), Sitar_30 (DE1), SmokingBunny_26 (DC1), StorminNorm_29 (DE1), Stultus_28 (DE1), Tangent_30 (DE1), Tangerine_29 (DE1), Tardus_31 (DE4), Thing3_29 (DE1), Tiamoceli_28 (DE3), TillyBobJoe_26 (DC1), Togo_26 (DC1), Twister6_28 (DC1), Twonlo_25 (DE3), Tycho_29 (DE1), Valary_29 (DC1), VanDeWege_29 (DC1), Verity_29 (DE4), ViaConlectus_30 (DE4), Vivi2_32 (DE1), Wizard_26 (DC1), YungMoney_28 (DC1), Zipp_29 (DE4), Zitch_31 (DE4),

Start 63:

- Found in 19 of 667 (2.8%) of genes in pham
- Manual Annotations of this start: 6 of 557
- Called 68.4% of time when present

- Phage (with cluster) where this start called: Atuin_82 (FC), BlueNGold_95 (DS), Boopy_96 (DS), Chilliams_84 (FC), Ellewin_79 (FC), Forza_96 (DS), LeoJr_87 (FC), Mareelih_94 (DS), Panchaali_85 (FC), ReginaGlobina_87 (FC), Rockabye_89 (FC), SJReid_93 (FC), Sixama_94 (DS),

Start 67:

- Found in 21 of 667 (3.1%) of genes in pham
- No Manual Annotations of this start.
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Llemily_33 (EG),

Start 72:

- Found in 23 of 667 (3.4%) of genes in pham
- No Manual Annotations of this start.
- Called 13.0% of time when present
- Phage (with cluster) where this start called: DunneganBoMo_81 (FC), KSunshine22_82 (FC), WaddleDee_81 (FC),

Start 78:

- Found in 8 of 667 (1.2%) of genes in pham
- Manual Annotations of this start: 7 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abt2graduatex2_20 (BG), Asis_19 (BG), BabyGotBac_19 (BG), BayC_19 (BG), Maih_19 (BG), RainyPolka_20 (BG), Salete_19 (BG), TP1604_19 (BG),

Start 80:

- Found in 4 of 667 (0.6%) of genes in pham
- Manual Annotations of this start: 4 of 557
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mischief19_27 (BG), TurkishDelight_25 (singleton), Xkcd426_25 (BG), YDN12_20 (BG),

Summary by clusters:

There are 34 clusters represented in this pham: GD1, GD2, BG, GD4, DK, DE, singleton, FC, B12, B13, B10, B11, GD3, DR, DS, AD, EG, W, DC2, DC1, DE1, DE2, DE3, DE4, DE5, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster AD:

- Start number 57 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster B1:

- Start number 52 was manually annotated 53 times for cluster B1.
- Start number 53 was manually annotated 212 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 57 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 52 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 57 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 57 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 53 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:

- Start number 61 was manually annotated 43 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 58 was manually annotated 25 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 57 was manually annotated 9 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 52 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 57 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 58 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 55 was manually annotated 3 times for cluster B9.
- Start number 57 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster BG:

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

Info for manual annotations of cluster DC1:

- Start number 62 was manually annotated 28 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 62 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:

- Start number 50 was manually annotated 8 times for cluster DE1.
- Start number 62 was manually annotated 37 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 62 was manually annotated 8 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 62 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 62 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 59 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DK:

- Start number 47 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DR:

- Start number 45 was manually annotated 1 time for cluster DR.
- Start number 55 was manually annotated 17 times for cluster DR.

Info for manual annotations of cluster DS:

- Start number 63 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster EG:

- Start number 47 was manually annotated 40 times for cluster EG.

Info for manual annotations of cluster FC:

- Start number 61 was manually annotated 3 times for cluster FC.
- Start number 63 was manually annotated 1 time for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 46 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 48 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 49 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 44 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster W:

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

Gene Information:

Gene: 39HC_021 Start: 17860, Stop: 18273, Start Num: 52

Candidate Starts for 39HC_021:

(Start: 52 @17860 has 55 MA's), (104, 18028), (116, 18055), (153, 18172),

Gene: 40BC_021 Start: 17860, Stop: 18273, Start Num: 52

Candidate Starts for 40BC_021:

(Start: 52 @17860 has 55 MA's), (104, 18028), (116, 18055), (153, 18172),

Gene: A3Wally_94 Start: 50689, Stop: 51099, Start Num: 46

Candidate Starts for A3Wally_94:

(Start: 46 @50689 has 2 MA's), (81, 50776), (82, 50779), (91, 50809), (155, 51019), (161, 51037),

Gene: ABU_25 Start: 18669, Stop: 19091, Start Num: 53

Candidate Starts for ABU_25:

(34, 18603), (Start: 53 @18669 has 213 MA's), (93, 18792), (95, 18798), (96, 18804), (116, 18867), (129, 18909), (155, 18987), (167, 19035), (178, 19059), (182, 19077), (184, 19083),

Gene: APunk_31 Start: 22352, Stop: 22783, Start Num: 62

Candidate Starts for APunk_31:

(35, 22292), (43, 22325), (Start: 62 @22352 has 90 MA's), (97, 22481), (107, 22511), (137, 22613), (139, 22619), (143, 22634), (166, 22691), (172, 22706), (187, 22754), (188, 22757),

Gene: Abblin_30 Start: 22964, Stop: 23395, Start Num: 62

Candidate Starts for Abblin_30:

(35, 22904), (43, 22937), (Start: 62 @22964 has 90 MA's), (97, 23093), (107, 23123), (137, 23225), (139, 23231), (143, 23246), (166, 23303), (172, 23318), (187, 23366), (188, 23369),

Gene: Abinghost_26 Start: 19363, Stop: 19776, Start Num: 61

Candidate Starts for Abinghost_26:

(Start: 61 @19363 has 46 MA's), (86, 19438), (95, 19483), (96, 19489), (131, 19621), (175, 19747),

Gene: AbsoluteMadLad_24 Start: 18670, Stop: 19092, Start Num: 53

Candidate Starts for AbsoluteMadLad_24:

(34, 18604), (Start: 53 @18670 has 213 MA's), (93, 18793), (95, 18799), (96, 18805), (116, 18868), (129, 18910), (155, 18988), (167, 19036), (178, 19060), (182, 19078), (184, 19084),

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

Candidate Starts for Abt2graduatex2_20:

(Start: 78 @19744 has 7 MA's), (85, 19759), (94, 19801), (104, 19846), (132, 19936), (140, 19966), (159, 20017), (162, 20032), (168, 20059), (170, 20062),

Gene: Acadian_25 Start: 19389, Stop: 19805, Start Num: 57

Candidate Starts for Acadian_25:

(Start: 57 @19389 has 22 MA's), (77, 19449), (96, 19518), (129, 19623), (135, 19653), (185, 19800),

Gene: Adriana_25 Start: 18672, Stop: 19094, Start Num: 53

Candidate Starts for Adriana_25:

(34, 18606), (Start: 53 @18672 has 213 MA's), (93, 18795), (95, 18801), (96, 18807), (116, 18870), (129, 18912), (155, 18990), (167, 19038), (178, 19062), (182, 19080), (184, 19086),

Gene: Aelin_24 Start: 18235, Stop: 18657, Start Num: 53

Candidate Starts for Aelin_24:

(34, 18169), (Start: 53 @18235 has 213 MA's), (93, 18358), (95, 18364), (96, 18370), (116, 18433), (129, 18475), (155, 18553), (167, 18601), (178, 18625), (182, 18643), (184, 18649),

Gene: Affeca_28 Start: 22852, Stop: 23286, Start Num: 62

Candidate Starts for Affeca_28:

(41, 22822), (Start: 62 @22852 has 90 MA's), (91, 22936), (107, 23011), (119, 23035), (137, 23113), (143, 23134), (172, 23206), (188, 23257),

Gene: Ahwei_22 Start: 18304, Stop: 18717, Start Num: 58

Candidate Starts for Ahwei_22:

(Start: 58 @18304 has 34 MA's), (93, 18418), (95, 18424), (96, 18430), (104, 18466), (116, 18493), (120, 18505), (124, 18517), (129, 18535), (155, 18613), (175, 18682), (184, 18709),

Gene: Ailee_28 Start: 23561, Stop: 23995, Start Num: 62

Candidate Starts for Ailee_28:

(Start: 62 @23561 has 90 MA's), (91, 23645), (107, 23720), (119, 23744), (137, 23822), (143, 23843), (172, 23915), (188, 23966),

Gene: Akoma_26 Start: 19364, Stop: 19777, Start Num: 61

Candidate Starts for Akoma_26:

(Start: 61 @19364 has 46 MA's), (95, 19484), (96, 19490), (109, 19538), (131, 19622), (175, 19748),

Gene: AksarBAT_22 Start: 17149, Stop: 17565, Start Num: 55

Candidate Starts for AksarBAT_22:

(Start: 55 @17149 has 20 MA's), (95, 17278), (129, 17392), (131, 17416),

Gene: AlanGrant_24 Start: 20089, Stop: 20502, Start Num: 58

Candidate Starts for AlanGrant_24:

(38, 20038), (Start: 58 @20089 has 34 MA's), (95, 20209), (96, 20215), (120, 20290), (129, 20320), (153, 20395), (160, 20413), (184, 20494),

Gene: Ali17_26 Start: 20746, Stop: 21177, Start Num: 62

Candidate Starts for Ali17_26:

(13, 20518), (17, 20554), (31, 20659), (43, 20719), (Start: 62 @20746 has 90 MA's), (91, 20830), (118, 20926), (137, 21007), (139, 21013), (142, 21025), (166, 21085), (177, 21109), (187, 21148), (188, 21151),

Gene: AltPhacts_25 Start: 18664, Stop: 19086, Start Num: 53

Candidate Starts for AltPhacts_25:

(34, 18598), (Start: 53 @18664 has 213 MA's), (93, 18787), (95, 18793), (96, 18799), (116, 18862), (129, 18904), (155, 18982), (167, 19030), (178, 19054), (182, 19072), (184, 19078),

Gene: Altheas_35 Start: 22433, Stop: 22843, Start Num: 47

Candidate Starts for Altheas_35:

(Start: 47 @22433 has 43 MA's), (99, 22592), (124, 22649), (129, 22667), (142, 22706), (148, 22721),

Gene: Altwerkus_24 Start: 18364, Stop: 18786, Start Num: 53

Candidate Starts for Altwerkus_24:

(34, 18298), (Start: 53 @18364 has 213 MA's), (93, 18487), (95, 18493), (96, 18499), (116, 18562), (129, 18604), (155, 18682), (167, 18730), (178, 18754), (182, 18772), (184, 18778),

Gene: AluminumJesus_31 Start: 21927, Stop: 22340, Start Num: 47

Candidate Starts for AluminumJesus_31:

(33, 21870), (Start: 47 @21927 has 43 MA's), (81, 21999), (99, 22086), (142, 22203), (148, 22218),

Gene: AnClar_23 Start: 19435, Stop: 19848, Start Num: 55

Candidate Starts for AnClar_23:

(Start: 55 @19435 has 20 MA's), (79, 19504), (96, 19570), (109, 19618), (130, 19684), (141, 19726), (175, 19825),

Gene: AnarQue_24 Start: 18618, Stop: 19028, Start Num: 55

Candidate Starts for AnarQue_24:

(Start: 55 @18618 has 20 MA's), (101, 18780), (106, 18792), (129, 18858), (131, 18882), (146, 18921), (155, 18936), (178, 19008),

Gene: Anderson_25 Start: 18662, Stop: 19084, Start Num: 53

Candidate Starts for Anderson_25:

(34, 18596), (Start: 53 @18662 has 213 MA's), (93, 18785), (95, 18791), (96, 18797), (116, 18860), (129, 18902), (155, 18980), (167, 19028), (178, 19052), (182, 19070), (184, 19076),

Gene: Andre_25 Start: 18660, Stop: 19082, Start Num: 53

Candidate Starts for Andre_25:

(34, 18594), (Start: 53 @18660 has 213 MA's), (93, 18783), (95, 18789), (96, 18795), (116, 18858), (129, 18900), (155, 18978), (167, 19026), (178, 19050), (182, 19068), (184, 19074),

Gene: AngelCake_24 Start: 18675, Stop: 19097, Start Num: 53

Candidate Starts for AngelCake_24:

(34, 18609), (Start: 53 @18675 has 213 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: Angelicage_28 Start: 23269, Stop: 23703, Start Num: 62

Candidate Starts for Angelicage_28:

(41, 23239), (Start: 62 @23269 has 90 MA's), (91, 23353), (107, 23428), (119, 23452), (137, 23530), (143, 23551), (172, 23623), (188, 23674),

Gene: Antihero_22 Start: 18304, Stop: 18717, Start Num: 58

Candidate Starts for Antihero_22:

(Start: 58 @18304 has 34 MA's), (93, 18418), (95, 18424), (96, 18430), (104, 18466), (116, 18493), (120, 18505), (124, 18517), (129, 18535), (155, 18613), (175, 18682), (184, 18709),

Gene: Antonia_24 Start: 18235, Stop: 18657, Start Num: 53

Candidate Starts for Antonia_24:

(34, 18169), (Start: 53 @18235 has 213 MA's), (93, 18358), (95, 18364), (96, 18370), (116, 18433), (129, 18475), (155, 18553), (167, 18601), (178, 18625), (182, 18643), (184, 18649),

Gene: Apex_23 Start: 19517, Stop: 19930, Start Num: 58

Candidate Starts for Apex_23:

(Start: 58 @19517 has 34 MA's), (93, 19631), (95, 19637), (96, 19643), (104, 19679), (120, 19718), (124, 19730), (129, 19748), (155, 19826), (160, 19841), (175, 19895), (178, 19898), (184, 19922),

Gene: Apizium_24 Start: 18422, Stop: 18844, Start Num: 52

Candidate Starts for Apizium_24:

(Start: 52 @18422 has 55 MA's), (81, 18494), (93, 18545), (95, 18551), (96, 18557), (116, 18620), (129, 18662), (155, 18740), (167, 18788), (178, 18812), (182, 18830), (184, 18836),

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

Candidate Starts for Argie_20:

(Start: 58 @18470 has 34 MA's), (86, 18545), (95, 18590), (96, 18596), (106, 18638), (116, 18662), (123, 18683), (153, 18785), (167, 18830),

Gene: Arri_29 Start: 18253, Stop: 18696, Start Num: 62

Candidate Starts for Arri_29:

(Start: 62 @18253 has 90 MA's), (137, 18514), (188, 18670),

Gene: Ashertheman_30 Start: 22146, Stop: 22580, Start Num: 62

Candidate Starts for Ashertheman_30:

(51, 22137), (Start: 62 @22146 has 90 MA's), (91, 22230), (107, 22305), (137, 22407), (143, 22428), (166, 22485), (172, 22500), (188, 22551),

Gene: Ashraf_24 Start: 18226, Stop: 18648, Start Num: 52

Candidate Starts for Ashraf_24:

(Start: 52 @18226 has 55 MA's), (93, 18349), (95, 18355), (96, 18361), (116, 18424), (129, 18466), (155, 18544), (167, 18592), (178, 18616), (182, 18634), (184, 18640),

Gene: Asis_19 Start: 19235, Stop: 19615, Start Num: 78

Candidate Starts for Asis_19:

(9, 18785), (26, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (104, 19337), (132, 19427), (140, 19457), (159, 19508), (162, 19523), (168, 19550), (170, 19553),

Gene: Athena_27 Start: 20126, Stop: 20539, Start Num: 61

Candidate Starts for Athena_27:

(Start: 61 @20126 has 46 MA's), (86, 20201), (95, 20246), (96, 20252), (131, 20384), (175, 20510),

Gene: Atuin_82 Start: 52030, Stop: 52410, Start Num: 63

Candidate Starts for Atuin_82:

(Start: 63 @52030 has 6 MA's), (66, 52039), (72, 52066), (111, 52207), (126, 52252), (136, 52285), (160, 52348),

Gene: Audrey_26 Start: 19363, Stop: 19776, Start Num: 61

Candidate Starts for Audrey_26:

(Start: 61 @19363 has 46 MA's), (95, 19483), (96, 19489), (109, 19537), (131, 19621), (175, 19747),

Gene: Austelle_24 Start: 19973, Stop: 20386, Start Num: 58

Candidate Starts for Austelle_24:

(Start: 58 @19973 has 34 MA's), (93, 20087), (95, 20093), (96, 20099), (104, 20135), (120, 20174), (124, 20186), (129, 20204), (155, 20282), (160, 20297), (175, 20351), (178, 20354), (184, 20378),

Gene: Axumite_22 Start: 17225, Stop: 17635, Start Num: 55

Candidate Starts for Axumite_22:

(Start: 55 @17225 has 20 MA's), (86, 17306), (93, 17345), (96, 17357), (106, 17399), (109, 17405), (116, 17423), (141, 17513),

Gene: BabyDotz_32 Start: 22195, Stop: 22599, Start Num: 47

Candidate Starts for BabyDotz_32:

(36, 22150), (Start: 47 @22195 has 43 MA's), (Start: 55 @22207 has 20 MA's), (67, 22231), (123, 22405), (129, 22426), (144, 22471), (148, 22480), (187, 22585), (189, 22594),

Gene: BabyGotBac_19 Start: 19235, Stop: 19615, Start Num: 78

Candidate Starts for BabyGotBac_19:

(9, 18785), (26, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (104, 19337), (132, 19427), (140, 19457), (159, 19508), (162, 19523), (168, 19550), (170, 19553),

Gene: Baddon_29 Start: 22946, Stop: 23380, Start Num: 50

Candidate Starts for Baddon_29:

(Start: 50 @22946 has 8 MA's), (82, 23000), (91, 23030), (107, 23105), (137, 23207), (143, 23228), (172, 23300), (188, 23351),

Gene: Badfish_25 Start: 18694, Stop: 19116, Start Num: 53

Candidate Starts for Badfish_25:

(34, 18628), (Start: 53 @18694 has 213 MA's), (93, 18817), (95, 18823), (96, 18829), (116, 18892), (129, 18934), (155, 19012), (167, 19060), (178, 19084), (182, 19102), (184, 19108),

Gene: Bae_24 Start: 19145, Stop: 19561, Start Num: 57

Candidate Starts for Bae_24:

(Start: 57 @19145 has 22 MA's), (93, 19262), (96, 19274), (116, 19337), (175, 19526), (185, 19556),

Gene: Bakery_27 Start: 17507, Stop: 17950, Start Num: 62

Candidate Starts for Bakery_27:

(Start: 62 @17507 has 90 MA's), (188, 17924),

Gene: Baloo_26 Start: 19363, Stop: 19776, Start Num: 61

Candidate Starts for Baloo_26:

(Start: 61 @19363 has 46 MA's), (95, 19483), (96, 19489), (109, 19537), (131, 19621), (175, 19747),

Gene: Banjo_24 Start: 18371, Stop: 18793, Start Num: 53

Candidate Starts for Banjo_24:

(34, 18305), (Start: 53 @18371 has 213 MA's), (93, 18494), (95, 18500), (96, 18506), (116, 18569), (129, 18611), (155, 18689), (167, 18737), (178, 18761), (182, 18779), (184, 18785),

Gene: Barb_28 Start: 18286, Stop: 18729, Start Num: 62

Candidate Starts for Barb_28:

(Start: 62 @18286 has 90 MA's), (137, 18547), (188, 18703),

Gene: Barsten_30 Start: 22693, Stop: 23127, Start Num: 62

Candidate Starts for Barsten_30:

(41, 22663), (Start: 62 @22693 has 90 MA's), (91, 22777), (107, 22852), (119, 22876), (137, 22954), (143, 22975), (172, 23047), (188, 23098),

Gene: Basato_26 Start: 18896, Stop: 19318, Start Num: 53

Candidate Starts for Basato_26:

(34, 18830), (Start: 53 @18896 has 213 MA's), (93, 19019), (95, 19025), (96, 19031), (116, 19094), (129, 19136), (155, 19214), (167, 19262), (178, 19286), (182, 19304), (184, 19310),

Gene: BatteryCK_24 Start: 18248, Stop: 18670, Start Num: 52

Candidate Starts for BatteryCK_24:

(Start: 52 @18248 has 55 MA's), (81, 18320), (93, 18371), (95, 18377), (96, 18383), (116, 18446), (129, 18488), (155, 18566), (167, 18614), (178, 18638), (182, 18656), (184, 18662),

Gene: Baumdotcom_29 Start: 21761, Stop: 22195, Start Num: 62

Candidate Starts for Baumdotcom_29:

(51, 21752), (Start: 62 @21761 has 90 MA's), (91, 21845), (107, 21920), (137, 22022), (143, 22043), (166, 22100), (172, 22115), (188, 22166),

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

Candidate Starts for BayC_19:

(9, 18785), (26, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (104, 19337), (132, 19427), (140, 19457), (159, 19508), (162, 19523), (168, 19550), (170, 19553),

Gene: Beaglebox_24 Start: 18391, Stop: 18813, Start Num: 53

Candidate Starts for Beaglebox_24:

(34, 18325), (Start: 53 @18391 has 213 MA's), (93, 18514), (95, 18520), (96, 18526), (116, 18589), (129, 18631), (155, 18709), (167, 18757), (178, 18781), (182, 18799), (184, 18805),

Gene: Belphegor_28 Start: 22298, Stop: 22729, Start Num: 62

Candidate Starts for Belphegor_28:

(37, 22247), (43, 22271), (Start: 62 @22298 has 90 MA's), (91, 22382), (118, 22478), (137, 22559), (139, 22565), (142, 22577), (166, 22637), (172, 22652), (177, 22661), (181, 22679), (187, 22700), (188, 22703),

Gene: Ben11_25 Start: 19185, Stop: 19598, Start Num: 61

Candidate Starts for Ben11_25:

(Start: 61 @19185 has 46 MA's), (95, 19305), (96, 19311), (109, 19359), (131, 19443), (175, 19569),

Gene: Bernardo_26 Start: 19363, Stop: 19776, Start Num: 61

Candidate Starts for Bernardo_26:

(Start: 61 @19363 has 46 MA's), (95, 19483), (96, 19489), (109, 19537), (131, 19621), (175, 19747),

Gene: Bibwit_29 Start: 22880, Stop: 23314, Start Num: 62

Candidate Starts for Bibwit_29:

(Start: 62 @22880 has 90 MA's), (91, 22964), (107, 23039), (119, 23063), (137, 23141), (143, 23162), (166, 23219), (172, 23234), (188, 23285),

Gene: Big4_83 Start: 49711, Stop: 50121, Start Num: 48

Candidate Starts for Big4_83:

(19, 49555), (24, 49585), (Start: 48 @49711 has 2 MA's), (72, 49771), (82, 49798), (86, 49807), (105, 49897), (161, 50059),

Gene: BiggityBass_22 Start: 19520, Stop: 19933, Start Num: 55

Candidate Starts for BiggityBass_22:

(Start: 55 @19520 has 20 MA's), (79, 19589), (109, 19703), (130, 19769), (175, 19910),

Gene: BirdInFrench_32 Start: 20827, Stop: 21222, Start Num: 47

Candidate Starts for BirdInFrench_32:

(Start: 47 @20827 has 43 MA's), (68, 20869), (73, 20878), (99, 20986), (157, 21127), (183, 21196), (187, 21214),

Gene: BirdsNest_28 Start: 18737, Stop: 19153, Start Num: 57

Candidate Starts for BirdsNest_28:

(Start: 57 @18737 has 22 MA's), (99, 18890), (100, 18893), (155, 19049), (160, 19064), (184, 19145),

Gene: Bishoperium_24 Start: 18377, Stop: 18799, Start Num: 53

Candidate Starts for Bishoperium_24:

(34, 18311), (Start: 53 @18377 has 213 MA's), (93, 18500), (95, 18506), (96, 18512), (116, 18575), (129, 18617), (155, 18695), (167, 18743), (178, 18767), (182, 18785), (184, 18791),

Gene: Bizzy_30 Start: 22093, Stop: 22527, Start Num: 50

Candidate Starts for Bizzy_30:

(Start: 50 @22093 has 8 MA's), (82, 22147), (91, 22177), (107, 22252), (137, 22354), (143, 22375), (172, 22447), (188, 22498),

Gene: Blab_31 Start: 21852, Stop: 22265, Start Num: 47

Candidate Starts for Blab_31:

(33, 21795), (Start: 47 @21852 has 43 MA's), (81, 21924), (99, 22011), (142, 22128), (148, 22143),

Gene: BlackStallion_25 Start: 18682, Stop: 19104, Start Num: 53

Candidate Starts for BlackStallion_25:

(34, 18616), (Start: 53 @18682 has 213 MA's), (93, 18805), (95, 18811), (96, 18817), (116, 18880), (129, 18922), (155, 19000), (167, 19048), (178, 19072), (182, 19090), (184, 19096),

Gene: Bloom_91 Start: 53421, Stop: 53804, Start Num: 61

Candidate Starts for Bloom_91:

(Start: 61 @53421 has 46 MA's), (72, 53460), (74, 53463), (97, 53562), (105, 53586), (124, 53637), (126, 53646), (142, 53700), (155, 53727), (159, 53739),

Gene: BlueHusk_25 Start: 18178, Stop: 18600, Start Num: 53

Candidate Starts for BlueHusk_25:

(34, 18112), (Start: 53 @18178 has 213 MA's), (93, 18301), (95, 18307), (96, 18313), (116, 18376), (129, 18418), (155, 18496), (167, 18544), (178, 18568), (182, 18586), (184, 18592),

Gene: BlueNGold_95 Start: 51971, Stop: 52378, Start Num: 63

Candidate Starts for BlueNGold_95:

(Start: 61 @51968 has 46 MA's), (Start: 63 @51971 has 6 MA's), (72, 52007), (89, 52061), (93, 52082), (124, 52184), (127, 52196), (133, 52238), (134, 52247), (142, 52274), (160, 52316), (167, 52349), (171, 52361), (174, 52370),

Gene: Bluephacebaby_24 Start: 18377, Stop: 18799, Start Num: 53

Candidate Starts for Bluephacebaby_24:

(34, 18311), (Start: 53 @18377 has 213 MA's), (93, 18500), (95, 18506), (96, 18512), (116, 18575), (129, 18617), (155, 18695), (167, 18743), (178, 18767), (182, 18785), (184, 18791),

Gene: BobBob_27 Start: 22158, Stop: 22592, Start Num: 62

Candidate Starts for BobBob_27:

(41, 22128), (Start: 62 @22158 has 90 MA's), (91, 22242), (107, 22317), (119, 22341), (137, 22419), (172, 22512), (188, 22563),

Gene: BobRoss2024_21 Start: 16983, Stop: 17393, Start Num: 57

Candidate Starts for BobRoss2024_21:

(Start: 57 @16983 has 22 MA's), (110, 17166), (120, 17193), (146, 17286), (178, 17373),

Gene: BobbyK_23 Start: 19336, Stop: 19749, Start Num: 58

Candidate Starts for BobbyK_23:

(Start: 58 @19336 has 34 MA's), (93, 19450), (95, 19456), (96, 19462), (104, 19498), (120, 19537), (124, 19549), (129, 19567), (155, 19645), (160, 19660), (175, 19714), (178, 19717), (184, 19741),

Gene: Boehler_25 Start: 18687, Stop: 19109, Start Num: 53

Candidate Starts for Boehler_25:

(34, 18621), (Start: 53 @18687 has 213 MA's), (93, 18810), (95, 18816), (96, 18822), (116, 18885), (129, 18927), (155, 19005), (167, 19053), (178, 19077), (182, 19095), (184, 19101),

Gene: Boopy_96 Start: 51983, Stop: 52390, Start Num: 63

Candidate Starts for Boopy_96:

(Start: 61 @51980 has 46 MA's), (Start: 63 @51983 has 6 MA's), (72, 52019), (89, 52073), (93, 52094), (124, 52196), (127, 52208), (133, 52250), (134, 52259), (142, 52286), (160, 52328), (167, 52361), (171, 52373), (174, 52382),

Gene: Boyle_27 Start: 20955, Stop: 21383, Start Num: 53

Candidate Starts for Boyle_27:

(41, 20928), (Start: 53 @20955 has 213 MA's), (Start: 63 @20970 has 6 MA's), (95, 21087), (96, 21093), (100, 21120), (109, 21141), (116, 21159), (155, 21279), (156, 21285), (175, 21348), (184, 21375),

Gene: Brandonk123_31 Start: 23227, Stop: 23661, Start Num: 62
Candidate Starts for Brandonk123_31:
(41, 23197), (Start: 62 @23227 has 90 MA's), (91, 23311), (107, 23386), (119, 23410), (137, 23488),
(172, 23581), (188, 23632),

Gene: Briakila_26 Start: 20128, Stop: 20541, Start Num: 61
Candidate Starts for Briakila_26:
(Start: 61 @20128 has 46 MA's), (95, 20248), (96, 20254), (109, 20302), (131, 20386), (175, 20512),

Gene: Brilliant_25 Start: 18382, Stop: 18804, Start Num: 52
Candidate Starts for Brilliant_25:
(Start: 52 @18382 has 55 MA's), (93, 18505), (95, 18511), (96, 18517), (116, 18580), (129, 18622),
(155, 18700), (167, 18748), (178, 18772), (182, 18790), (184, 18796),

Gene: BrownCNA_24 Start: 19588, Stop: 20001, Start Num: 58
Candidate Starts for BrownCNA_24:
(Start: 58 @19588 has 34 MA's), (93, 19702), (95, 19708), (96, 19714), (104, 19750), (120, 19789),
(124, 19801), (129, 19819), (155, 19897), (175, 19966), (178, 19969), (184, 19993),

Gene: Buckeye_25 Start: 18701, Stop: 19123, Start Num: 53
Candidate Starts for Buckeye_25:
(34, 18635), (Start: 53 @18701 has 213 MA's), (93, 18824), (95, 18830), (96, 18836), (116, 18899),
(129, 18941), (155, 19019), (167, 19067), (178, 19091), (182, 19109), (184, 19115),

Gene: Burr_24 Start: 18376, Stop: 18798, Start Num: 53
Candidate Starts for Burr_24:
(34, 18310), (Start: 53 @18376 has 213 MA's), (93, 18499), (95, 18505), (96, 18511), (116, 18574),
(129, 18616), (155, 18694), (167, 18742), (178, 18766), (182, 18784), (184, 18790),

Gene: CRB2_27 Start: 21048, Stop: 21482, Start Num: 55
Candidate Starts for CRB2_27:
(Start: 55 @21048 has 20 MA's), (77, 21111), (79, 21114), (95, 21174), (96, 21180), (104, 21216),
(116, 21243), (120, 21255), (155, 21363), (175, 21432),

Gene: CaiB_24 Start: 18604, Stop: 19014, Start Num: 55
Candidate Starts for CaiB_24:
(Start: 55 @18604 has 20 MA's), (106, 18778), (155, 18922),

Gene: CamL_25 Start: 18675, Stop: 19097, Start Num: 53
Candidate Starts for CamL_25:
(34, 18609), (Start: 53 @18675 has 213 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873),
(129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: CampRoach_25 Start: 18668, Stop: 19090, Start Num: 53
Candidate Starts for CampRoach_25:
(34, 18602), (Start: 53 @18668 has 213 MA's), (93, 18791), (95, 18797), (96, 18803), (116, 18866),
(129, 18908), (155, 18986), (167, 19034), (178, 19058), (182, 19076), (184, 19082),

Gene: CandC_31 Start: 20527, Stop: 20922, Start Num: 47
Candidate Starts for CandC_31:
(Start: 47 @20527 has 43 MA's), (73, 20578), (99, 20686), (129, 20761), (157, 20827), (187, 20914),

Gene: Cannibal_25 Start: 18661, Stop: 19083, Start Num: 53

Candidate Starts for Cannibal_25:

(34, 18595), (Start: 53 @18661 has 213 MA's), (93, 18784), (95, 18790), (96, 18796), (116, 18859), (129, 18901), (155, 18979), (167, 19027), (178, 19051), (182, 19069), (184, 19075),

Gene: Carthage_23 Start: 17587, Stop: 18009, Start Num: 53

Candidate Starts for Carthage_23:

(34, 17521), (Start: 53 @17587 has 213 MA's), (93, 17710), (95, 17716), (96, 17722), (116, 17785), (129, 17827), (155, 17905), (167, 17953), (178, 17977), (182, 17995), (184, 18001),

Gene: Casbah_25 Start: 19215, Stop: 19628, Start Num: 61

Candidate Starts for Casbah_25:

(Start: 61 @19215 has 46 MA's), (86, 19290), (95, 19335), (96, 19341), (131, 19473), (175, 19599),

Gene: Casend_34 Start: 22604, Stop: 23008, Start Num: 47

Candidate Starts for Casend_34:

(33, 22547), (Start: 47 @22604 has 43 MA's), (67, 22640), (123, 22814), (129, 22835), (144, 22880), (148, 22889), (187, 22994), (189, 23003),

Gene: Caspiboi_26 Start: 18381, Stop: 18803, Start Num: 52

Candidate Starts for Caspiboi_26:

(Start: 52 @18381 has 55 MA's), (93, 18504), (95, 18510), (96, 18516), (116, 18579), (129, 18621), (155, 18699), (167, 18747), (178, 18771), (182, 18789), (184, 18795),

Gene: Cece_77 Start: 45674, Stop: 46081, Start Num: 49

Candidate Starts for Cece_77:

(Start: 49 @45674 has 1 MA's), (70, 45725), (88, 45779), (95, 45815), (98, 45839), (105, 45860), (108, 45866), (142, 45974), (155, 46001), (161, 46019),

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

Candidate Starts for Cepens_19:

(Start: 58 @18194 has 34 MA's), (86, 18269), (95, 18314), (96, 18320), (106, 18362), (116, 18386), (123, 18407), (153, 18509), (167, 18554),

Gene: ChaChing_26 Start: 19378, Stop: 19791, Start Num: 61

Candidate Starts for ChaChing_26:

(Start: 61 @19378 has 46 MA's), (86, 19453), (95, 19498), (96, 19504), (131, 19636), (175, 19762),

Gene: ChadMasterC_30 Start: 23885, Stop: 24319, Start Num: 62

Candidate Starts for ChadMasterC_30:

(41, 23855), (Start: 62 @23885 has 90 MA's), (91, 23969), (107, 24044), (119, 24068), (137, 24146), (143, 24167), (172, 24239), (188, 24290),

Gene: Chaelin_24 Start: 18361, Stop: 18783, Start Num: 52

Candidate Starts for Chaelin_24:

(Start: 52 @18361 has 55 MA's), (81, 18433), (93, 18484), (95, 18490), (96, 18496), (116, 18559), (129, 18601), (155, 18679), (167, 18727), (178, 18751), (182, 18769), (184, 18775),

Gene: Chalmers_26 Start: 20169, Stop: 20582, Start Num: 61

Candidate Starts for Chalmers_26:

(Start: 61 @20169 has 46 MA's), (95, 20289), (96, 20295), (109, 20343), (131, 20427), (175, 20553),

Gene: Chandler_26 Start: 20137, Stop: 20550, Start Num: 61

Candidate Starts for Chandler_26:

(Start: 61 @20137 has 46 MA's), (86, 20212), (95, 20257), (96, 20263), (131, 20395), (175, 20521),

Gene: Charles1_25 Start: 18659, Stop: 19081, Start Num: 53

Candidate Starts for Charles1_25:

(34, 18593), (Start: 53 @18659 has 213 MA's), (93, 18782), (95, 18788), (96, 18794), (116, 18857), (129, 18899), (155, 18977), (167, 19025), (178, 19049), (182, 19067), (184, 19073),

Gene: CharlieGBrown_24 Start: 18246, Stop: 18668, Start Num: 52

Candidate Starts for CharlieGBrown_24:

(Start: 52 @18246 has 55 MA's), (93, 18369), (95, 18375), (96, 18381), (116, 18444), (129, 18486), (155, 18564), (167, 18612), (178, 18636), (182, 18654), (184, 18660),

Gene: CharlottesWeb_22 Start: 17120, Stop: 17533, Start Num: 55

Candidate Starts for CharlottesWeb_22:

(Start: 45 @17099 has 1 MA's), (Start: 55 @17120 has 20 MA's), (71, 17162), (86, 17201), (95, 17246), (96, 17252), (109, 17300),

Gene: Charming_30 Start: 22736, Stop: 23170, Start Num: 62

Candidate Starts for Charming_30:

(41, 22706), (Start: 62 @22736 has 90 MA's), (91, 22820), (107, 22895), (119, 22919), (137, 22997), (143, 23018), (172, 23090), (188, 23141),

Gene: CheetO_25 Start: 18674, Stop: 19096, Start Num: 53

Candidate Starts for CheetO_25:

(34, 18608), (Start: 53 @18674 has 213 MA's), (93, 18797), (95, 18803), (96, 18809), (116, 18872), (129, 18914), (155, 18992), (167, 19040), (178, 19064), (182, 19082), (184, 19088),

Gene: Chentzyk_25 Start: 19233, Stop: 19646, Start Num: 61

Candidate Starts for Chentzyk_25:

(Start: 61 @19233 has 46 MA's), (95, 19353), (96, 19359), (109, 19407), (131, 19491), (175, 19617),

Gene: Cher_24 Start: 18400, Stop: 18822, Start Num: 53

Candidate Starts for Cher_24:

(34, 18334), (Start: 53 @18400 has 213 MA's), (93, 18523), (95, 18529), (96, 18535), (116, 18598), (129, 18640), (155, 18718), (167, 18766), (178, 18790), (182, 18808), (184, 18814),

Gene: CherryCola_30 Start: 18503, Stop: 18946, Start Num: 62

Candidate Starts for CherryCola_30:

(Start: 62 @18503 has 90 MA's), (137, 18764), (188, 18920),

Gene: Chickadee_27 Start: 19601, Stop: 20032, Start Num: 62

Candidate Starts for Chickadee_27:

(22, 19433), (Start: 62 @19601 has 90 MA's), (91, 19685), (107, 19760), (142, 19880), (149, 19895), (172, 19955), (177, 19964), (187, 20003), (188, 20006),

Gene: Childish_24 Start: 18388, Stop: 18810, Start Num: 53

Candidate Starts for Childish_24:

(34, 18322), (Start: 53 @18388 has 213 MA's), (93, 18511), (95, 18517), (96, 18523), (116, 18586), (129, 18628), (155, 18706), (167, 18754), (178, 18778), (182, 18796), (184, 18802),

Gene: Chilliams_84 Start: 55298, Stop: 55687, Start Num: 63

Candidate Starts for Chilliams_84:

(Start: 63 @55298 has 6 MA's), (89, 55388), (97, 55436), (126, 55520), (142, 55574), (155, 55601), (159, 55613), (171, 55661),

Gene: Chipette_26 Start: 18897, Stop: 19319, Start Num: 53

Candidate Starts for Chipette_26:

(34, 18831), (Start: 53 @18897 has 213 MA's), (93, 19020), (95, 19026), (96, 19032), (116, 19095), (129, 19137), (155, 19215), (167, 19263), (178, 19287), (182, 19305), (184, 19311),

Gene: Chorkpop_25 Start: 18399, Stop: 18821, Start Num: 53

Candidate Starts for Chorkpop_25:

(34, 18333), (Start: 53 @18399 has 213 MA's), (93, 18522), (95, 18528), (96, 18534), (116, 18597), (129, 18639), (142, 18690), (155, 18717), (167, 18765), (178, 18789), (182, 18807), (184, 18813),

Gene: ChrisnMich_22 Start: 18293, Stop: 18706, Start Num: 58

Candidate Starts for ChrisnMich_22:

(Start: 58 @18293 has 34 MA's), (93, 18407), (95, 18413), (96, 18419), (104, 18455), (120, 18494), (124, 18506), (129, 18524), (155, 18602), (175, 18671), (184, 18698),

Gene: Chunky_25 Start: 18687, Stop: 19109, Start Num: 53

Candidate Starts for Chunky_25:

(34, 18621), (Start: 53 @18687 has 213 MA's), (93, 18810), (95, 18816), (96, 18822), (116, 18885), (129, 18927), (155, 19005), (167, 19053), (178, 19077), (182, 19095), (184, 19101),

Gene: Chute_24 Start: 18712, Stop: 19134, Start Num: 52

Candidate Starts for Chute_24:

(Start: 52 @18712 has 55 MA's), (81, 18784), (93, 18835), (95, 18841), (96, 18847), (116, 18910), (129, 18952), (155, 19030), (167, 19078), (178, 19102), (182, 19120), (184, 19126),

Gene: ClamChowder_28 Start: 18286, Stop: 18729, Start Num: 62

Candidate Starts for ClamChowder_28:

(Start: 62 @18286 has 90 MA's), (137, 18547), (188, 18703),

Gene: CloverMinnie_24 Start: 18544, Stop: 18954, Start Num: 55

Candidate Starts for CloverMinnie_24:

(Start: 55 @18544 has 20 MA's), (101, 18706), (106, 18718), (129, 18784), (131, 18808), (146, 18847), (155, 18862), (178, 18934),

Gene: Clown_30 Start: 20227, Stop: 20670, Start Num: 62

Candidate Starts for Clown_30:

(29, 20125), (32, 20134), (Start: 62 @20227 has 90 MA's), (88, 20299), (188, 20644),

Gene: Cobra_25 Start: 18680, Stop: 19102, Start Num: 53

Candidate Starts for Cobra_25:

(34, 18614), (Start: 53 @18680 has 213 MA's), (93, 18803), (95, 18809), (96, 18815), (116, 18878), (129, 18920), (155, 18998), (167, 19046), (178, 19070), (182, 19088), (184, 19094),

Gene: Colbert_25 Start: 18677, Stop: 19099, Start Num: 53

Candidate Starts for Colbert_25:

(34, 18611), (Start: 53 @18677 has 213 MA's), (93, 18800), (95, 18806), (96, 18812), (116, 18875), (129, 18917), (155, 18995), (167, 19043), (178, 19067), (182, 19085), (184, 19091),

Gene: Coldpizza_25 Start: 21451, Stop: 21861, Start Num: 55

Candidate Starts for Coldpizza_25:

(Start: 55 @21451 has 20 MA's), (75, 21505), (76, 21508), (86, 21532), (96, 21583), (120, 21661),

Gene: Coletti_24 Start: 18712, Stop: 19134, Start Num: 52

Candidate Starts for Coletti_24:

(Start: 52 @18712 has 55 MA's), (81, 18784), (93, 18835), (95, 18841), (96, 18847), (116, 18910), (129, 18952), (155, 19030), (167, 19078), (178, 19102), (182, 19120), (184, 19126),

Gene: Compostia_27 Start: 19796, Stop: 20209, Start Num: 61

Candidate Starts for Compostia_27:

(Start: 61 @19796 has 46 MA's), (86, 19871), (95, 19916), (96, 19922), (131, 20054), (175, 20180),

Gene: Cooper_23 Start: 18410, Stop: 18823, Start Num: 58

Candidate Starts for Cooper_23:

(Start: 58 @18410 has 34 MA's), (95, 18530), (96, 18536), (104, 18572), (116, 18599), (124, 18623), (129, 18641), (155, 18719), (175, 18788), (184, 18815),

Gene: Cornbread_25 Start: 18393, Stop: 18815, Start Num: 52

Candidate Starts for Cornbread_25:

(Start: 52 @18393 has 55 MA's), (93, 18516), (95, 18522), (96, 18528), (116, 18591), (129, 18633), (155, 18711), (167, 18759), (178, 18783), (182, 18801), (184, 18807),

Gene: Cornobble_24 Start: 18235, Stop: 18657, Start Num: 53

Candidate Starts for Cornobble_24:

(34, 18169), (Start: 53 @18235 has 213 MA's), (93, 18358), (95, 18364), (96, 18370), (116, 18433), (129, 18475), (155, 18553), (167, 18601), (178, 18625), (182, 18643), (184, 18649),

Gene: Corofin_26 Start: 19388, Stop: 19801, Start Num: 61

Candidate Starts for Corofin_26:

(Start: 61 @19388 has 46 MA's), (86, 19463), (95, 19508), (96, 19514), (131, 19646), (175, 19772),

Gene: Cosmolli16_24 Start: 18394, Stop: 18816, Start Num: 53

Candidate Starts for Cosmolli16_24:

(34, 18328), (Start: 53 @18394 has 213 MA's), (93, 18517), (95, 18523), (96, 18529), (116, 18592), (129, 18634), (142, 18685), (155, 18712), (167, 18760), (178, 18784), (182, 18802), (184, 18808),

Gene: CoveyB_29 Start: 18086, Stop: 18529, Start Num: 62

Candidate Starts for CoveyB_29:

(Start: 62 @18086 has 90 MA's), (137, 18347), (188, 18503),

Gene: Craff_25 Start: 18681, Stop: 19103, Start Num: 53

Candidate Starts for Craff_25:

(34, 18615), (Start: 53 @18681 has 213 MA's), (93, 18804), (95, 18810), (96, 18816), (116, 18879), (129, 18921), (155, 18999), (167, 19047), (178, 19071), (182, 19089), (184, 19095),

Gene: Crownjwl_25 Start: 18448, Stop: 18870, Start Num: 53

Candidate Starts for Crownjwl_25:

(34, 18382), (Start: 53 @18448 has 213 MA's), (93, 18571), (95, 18577), (96, 18583), (116, 18646), (129, 18688), (155, 18766), (167, 18814), (178, 18838), (182, 18856), (184, 18862),

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

Candidate Starts for D12_19:

(Start: 58 @18187 has 34 MA's), (86, 18262), (95, 18307), (96, 18313), (106, 18355), (116, 18379), (123, 18400), (153, 18502), (167, 18547),

Gene: DaddyDaniels_25 Start: 18373, Stop: 18795, Start Num: 52

Candidate Starts for DaddyDaniels_25:

(Start: 52 @18373 has 55 MA's), (93, 18496), (95, 18502), (96, 18508), (116, 18571), (129, 18613), (155, 18691), (167, 18739), (178, 18763), (182, 18781), (184, 18787),

Gene: Daffy_25 Start: 18400, Stop: 18822, Start Num: 53

Candidate Starts for Daffy_25:

(34, 18334), (Start: 53 @18400 has 213 MA's), (93, 18523), (95, 18529), (96, 18535), (116, 18598), (129, 18640), (155, 18718), (167, 18766), (178, 18790), (182, 18808), (184, 18814),

Gene: Daisy_26 Start: 19384, Stop: 19797, Start Num: 61

Candidate Starts for Daisy_26:

(Start: 61 @19384 has 46 MA's), (95, 19504), (96, 19510), (131, 19642), (175, 19768),

Gene: Daka_25 Start: 18677, Stop: 19099, Start Num: 53

Candidate Starts for Daka_25:

(34, 18611), (Start: 53 @18677 has 213 MA's), (93, 18800), (95, 18806), (96, 18812), (116, 18875), (129, 18917), (155, 18995), (167, 19043), (178, 19067), (182, 19085), (184, 19091),

Gene: Danyall_28 Start: 18086, Stop: 18529, Start Num: 62

Candidate Starts for Danyall_28:

(Start: 62 @18086 has 90 MA's), (137, 18347), (188, 18503),

Gene: Dati_25 Start: 18390, Stop: 18812, Start Num: 52

Candidate Starts for Dati_25:

(Start: 52 @18390 has 55 MA's), (93, 18513), (95, 18519), (96, 18525), (116, 18588), (129, 18630), (155, 18708), (167, 18756), (178, 18780), (182, 18798), (184, 18804),

Gene: Deenasa_26 Start: 20126, Stop: 20539, Start Num: 61

Candidate Starts for Deenasa_26:

(Start: 61 @20126 has 46 MA's), (86, 20201), (95, 20246), (96, 20252), (131, 20384), (175, 20510),

Gene: DelRivs_24 Start: 18389, Stop: 18811, Start Num: 52

Candidate Starts for DelRivs_24:

(Start: 52 @18389 has 55 MA's), (95, 18518), (96, 18524), (116, 18587), (129, 18629), (155, 18707), (167, 18755), (178, 18779), (182, 18797), (184, 18803),

Gene: Delrey21_29 Start: 23097, Stop: 23528, Start Num: 62

Candidate Starts for Delrey21_29:

(43, 23070), (Start: 62 @23097 has 90 MA's), (91, 23181), (96, 23211), (97, 23226), (107, 23256), (118, 23277), (137, 23358), (139, 23364), (149, 23391), (166, 23436), (172, 23451), (187, 23499), (188, 23502),

Gene: Derg_25 Start: 21689, Stop: 22123, Start Num: 50

Candidate Starts for Derg_25:

(Start: 50 @21689 has 8 MA's), (82, 21743), (91, 21773), (107, 21848), (137, 21950), (143, 21971), (172, 22043), (188, 22094),

Gene: Derpp_24 Start: 18236, Stop: 18658, Start Num: 52

Candidate Starts for Derpp_24:

(Start: 52 @18236 has 55 MA's), (93, 18359), (95, 18365), (96, 18371), (116, 18434), (129, 18476), (155, 18554), (167, 18602), (178, 18626), (182, 18644), (184, 18650),

Gene: Devonte_26 Start: 19363, Stop: 19776, Start Num: 61

Candidate Starts for Devonte_26:

(Start: 61 @19363 has 46 MA's), (86, 19438), (95, 19483), (96, 19489), (131, 19621), (175, 19747),

Gene: Dexdert_28 Start: 20032, Stop: 20463, Start Num: 62

Candidate Starts for Dexdert_28:

(Start: 62 @20032 has 90 MA's), (91, 20116), (107, 20191), (118, 20212), (142, 20311), (149, 20326), (172, 20386), (187, 20434), (188, 20437), (189, 20446),

Gene: Dice_24 Start: 18377, Stop: 18799, Start Num: 53

Candidate Starts for Dice_24:

(34, 18311), (Start: 53 @18377 has 213 MA's), (93, 18500), (95, 18506), (96, 18512), (116, 18575), (129, 18617), (155, 18695), (167, 18743), (178, 18767), (182, 18785), (184, 18791),

Gene: DigitDog_25 Start: 18981, Stop: 19397, Start Num: 57

Candidate Starts for DigitDog_25:

(Start: 57 @18981 has 22 MA's), (116, 19173), (129, 19215), (142, 19266), (185, 19392),

Gene: Dingo_25 Start: 18661, Stop: 19083, Start Num: 53

Candidate Starts for Dingo_25:

(34, 18595), (Start: 53 @18661 has 213 MA's), (93, 18784), (95, 18790), (96, 18796), (116, 18859), (129, 18901), (155, 18979), (167, 19027), (178, 19051), (182, 19069), (184, 19075),

Gene: Dione_24 Start: 18378, Stop: 18800, Start Num: 53

Candidate Starts for Dione_24:

(34, 18312), (Start: 53 @18378 has 213 MA's), (93, 18501), (95, 18507), (96, 18513), (116, 18576), (129, 18618), (155, 18696), (167, 18744), (178, 18768), (182, 18786), (184, 18792),

Gene: DirtJuice_25 Start: 18663, Stop: 19085, Start Num: 53

Candidate Starts for DirtJuice_25:

(34, 18597), (Start: 53 @18663 has 213 MA's), (93, 18786), (95, 18792), (96, 18798), (116, 18861), (129, 18903), (155, 18981), (167, 19029), (178, 19053), (182, 19071), (184, 19077),

Gene: DoctorFroggo_29 Start: 23097, Stop: 23528, Start Num: 62

Candidate Starts for DoctorFroggo_29:

(43, 23070), (Start: 62 @23097 has 90 MA's), (91, 23181), (96, 23211), (97, 23226), (107, 23256), (118, 23277), (137, 23358), (139, 23364), (149, 23391), (166, 23436), (172, 23451), (187, 23499), (188, 23502),

Gene: Doddsville_25 Start: 18390, Stop: 18812, Start Num: 52

Candidate Starts for Doddsville_25:

(Start: 52 @18390 has 55 MA's), (93, 18513), (95, 18519), (96, 18525), (116, 18588), (129, 18630), (155, 18708), (167, 18756), (178, 18780), (182, 18798), (184, 18804),

Gene: Dodo_94 Start: 51011, Stop: 51421, Start Num: 46

Candidate Starts for Dodo_94:

(Start: 46 @51011 has 2 MA's), (81, 51098), (82, 51101), (91, 51131), (155, 51341), (161, 51359),

Gene: DoesntMatter_25 Start: 18659, Stop: 19081, Start Num: 53

Candidate Starts for DoesntMatter_25:

(34, 18593), (Start: 53 @18659 has 213 MA's), (93, 18782), (95, 18788), (96, 18794), (116, 18857), (129, 18899), (142, 18950), (155, 18977), (167, 19025), (178, 19049), (182, 19067), (184, 19073),

Gene: DonSanchon_24 Start: 18376, Stop: 18798, Start Num: 53

Candidate Starts for DonSanchon_24:

(34, 18310), (Start: 53 @18376 has 213 MA's), (93, 18499), (95, 18505), (96, 18511), (116, 18574), (129, 18616), (155, 18694), (167, 18742), (178, 18766), (182, 18784), (184, 18790),

Gene: DonaldDuck_33 Start: 21950, Stop: 22354, Start Num: 47

Candidate Starts for DonaldDuck_33:

(33, 21893), (Start: 47 @21950 has 43 MA's), (67, 21986), (123, 22160), (129, 22181), (144, 22226), (148, 22235), (187, 22340), (189, 22349),

Gene: Donny_25 Start: 19394, Stop: 19810, Start Num: 57

Candidate Starts for Donny_25:

(Start: 57 @19394 has 22 MA's), (77, 19454), (96, 19523), (129, 19628), (135, 19658), (185, 19805),

Gene: Dori_22 Start: 16225, Stop: 16629, Start Num: 57

Candidate Starts for Dori_22:

(Start: 57 @16225 has 22 MA's), (86, 16303), (95, 16348), (96, 16354), (107, 16399), (116, 16420), (129, 16462), (131, 16486), (142, 16513), (147, 16525), (173, 16603),

Gene: DuchessDung_23 Start: 17527, Stop: 17949, Start Num: 52

Candidate Starts for DuchessDung_23:

(Start: 52 @17527 has 55 MA's), (93, 17650), (95, 17656), (96, 17662), (116, 17725), (129, 17767), (155, 17845), (167, 17893), (178, 17917), (182, 17935), (184, 17941),

Gene: Duggie_24 Start: 18392, Stop: 18814, Start Num: 52

Candidate Starts for Duggie_24:

(Start: 52 @18392 has 55 MA's), (93, 18515), (95, 18521), (96, 18527), (116, 18590), (129, 18632), (155, 18710), (167, 18758), (178, 18782), (182, 18800), (184, 18806),

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

Candidate Starts for DunneganBoMo_81:

(Start: 63 @48875 has 6 MA's), (72, 48911), (96, 48998), (115, 49061), (124, 49088), (126, 49097), (160, 49193),

Gene: Durga_25 Start: 18689, Stop: 19111, Start Num: 52

Candidate Starts for Durga_25:

(Start: 52 @18689 has 55 MA's), (93, 18812), (95, 18818), (96, 18824), (116, 18887), (129, 18929), (155, 19007), (167, 19055), (178, 19079), (182, 19097), (184, 19103),

Gene: EMoore_26 Start: 21587, Stop: 22018, Start Num: 62

Candidate Starts for EMoore_26:

(37, 21536), (43, 21560), (Start: 47 @21563 has 43 MA's), (Start: 62 @21587 has 90 MA's), (91, 21671), (97, 21716), (137, 21848), (166, 21926), (177, 21950), (187, 21989), (188, 21992),

Gene: EastView9101_24 Start: 19041, Stop: 19457, Start Num: 57

Candidate Starts for EastView9101_24:

(Start: 57 @19041 has 22 MA's), (96, 19170), (116, 19233), (185, 19452),

Gene: EdmundFerry_26 Start: 19630, Stop: 20061, Start Num: 62

Candidate Starts for EdmundFerry_26:

(22, 19462), (Start: 62 @19630 has 90 MA's), (91, 19714), (107, 19789), (142, 19909), (149, 19924), (172, 19984), (177, 19993), (187, 20032), (188, 20035),

Gene: Egi03_28 Start: 17805, Stop: 18248, Start Num: 62

Candidate Starts for Egi03_28:

(15, 17589), (20, 17631), (Start: 62 @17805 has 90 MA's), (137, 18066), (188, 18222),

Gene: Ellewin_79 Start: 48470, Stop: 48850, Start Num: 63

Candidate Starts for Ellewin_79:

(Start: 63 @48470 has 6 MA's), (72, 48506), (96, 48593), (115, 48656), (124, 48683), (126, 48692), (160, 48788),

Gene: Emiris_25 Start: 18670, Stop: 19092, Start Num: 53

Candidate Starts for Emiris_25:

(34, 18604), (Start: 53 @18670 has 213 MA's), (93, 18793), (95, 18799), (96, 18805), (116, 18868), (129, 18910), (155, 18988), (167, 19036), (178, 19060), (182, 19078), (184, 19084),

Gene: EmpTee_25 Start: 18676, Stop: 19098, Start Num: 53

Candidate Starts for EmpTee_25:

(34, 18610), (Start: 53 @18676 has 213 MA's), (93, 18799), (95, 18805), (96, 18811), (116, 18874), (129, 18916), (155, 18994), (167, 19042), (178, 19066), (182, 19084), (184, 19090),

Gene: Epah_22 Start: 18304, Stop: 18717, Start Num: 58

Candidate Starts for Epah_22:

(Start: 58 @18304 has 34 MA's), (93, 18418), (95, 18424), (96, 18430), (104, 18466), (116, 18493), (120, 18505), (124, 18517), (129, 18535), (155, 18613), (175, 18682), (184, 18709),

Gene: Eremos_25 Start: 18676, Stop: 19098, Start Num: 53

Candidate Starts for Eremos_25:

(34, 18610), (Start: 53 @18676 has 213 MA's), (93, 18799), (95, 18805), (96, 18811), (116, 18874), (129, 18916), (155, 18994), (167, 19042), (178, 19066), (182, 19084), (184, 19090),

Gene: Etaye_25 Start: 18662, Stop: 19084, Start Num: 52

Candidate Starts for Etaye_25:

(Start: 52 @18662 has 55 MA's), (93, 18785), (95, 18791), (96, 18797), (116, 18860), (129, 18902), (155, 18980), (167, 19028), (178, 19052), (182, 19070), (184, 19076),

Gene: Eugenia_25 Start: 18689, Stop: 19111, Start Num: 53

Candidate Starts for Eugenia_25:

(34, 18623), (Start: 53 @18689 has 213 MA's), (93, 18812), (95, 18818), (96, 18824), (116, 18887), (129, 18929), (155, 19007), (167, 19055), (178, 19079), (182, 19097), (184, 19103),

Gene: Evaa_23 Start: 18465, Stop: 18881, Start Num: 55

Candidate Starts for Evaa_23:

(Start: 55 @18465 has 20 MA's), (86, 18549), (96, 18600), (107, 18645), (131, 18732), (141, 18756),

Gene: Evamon_26 Start: 17572, Stop: 18015, Start Num: 62

Candidate Starts for Evamon_26:

(Start: 62 @17572 has 90 MA's), (137, 17833), (188, 17989),

Gene: EverythinBagel_33 Start: 22338, Stop: 22736, Start Num: 47

Candidate Starts for EverythinBagel_33:

(34, 22284), (Start: 47 @22338 has 43 MA's), (67, 22374), (123, 22548), (129, 22569), (144, 22614), (148, 22623),

Gene: Fanaw_22 Start: 18998, Stop: 19411, Start Num: 58

Candidate Starts for Fanaw_22:

(Start: 58 @18998 has 34 MA's), (93, 19112), (95, 19118), (96, 19124), (104, 19160), (120, 19199), (124, 19211), (129, 19229), (155, 19307), (184, 19403),

Gene: Fang_25 Start: 18690, Stop: 19112, Start Num: 53

Candidate Starts for Fang_25:

(34, 18624), (Start: 53 @18690 has 213 MA's), (93, 18813), (95, 18819), (96, 18825), (116, 18888), (129, 18930), (155, 19008), (167, 19056), (178, 19080), (182, 19098), (184, 19104),

Gene: Fireball_27 Start: 17704, Stop: 18147, Start Num: 62

Candidate Starts for Fireball_27:

(Start: 62 @17704 has 90 MA's), (137, 17965), (188, 18121),

Gene: Fitzgerald_28 Start: 23319, Stop: 23753, Start Num: 62

Candidate Starts for Fitzgerald_28:

(41, 23289), (Start: 62 @23319 has 90 MA's), (91, 23403), (107, 23478), (137, 23580), (143, 23601), (172, 23673), (188, 23724),

Gene: Fizzles_33 Start: 21660, Stop: 22067, Start Num: 47

Candidate Starts for Fizzles_33:

(34, 21606), (Start: 47 @21660 has 43 MA's), (Start: 55 @21672 has 20 MA's), (67, 21696), (129, 21891), (144, 21936), (148, 21945), (165, 21993), (187, 22053), (189, 22062),

Gene: Flatwoods_30 Start: 22050, Stop: 22484, Start Num: 50

Candidate Starts for Flatwoods_30:

(Start: 50 @22050 has 8 MA's), (82, 22104), (91, 22134), (107, 22209), (137, 22311), (143, 22332), (172, 22404), (188, 22455),

Gene: FluffyNinja_25 Start: 18682, Stop: 19104, Start Num: 53

Candidate Starts for FluffyNinja_25:

(34, 18616), (Start: 53 @18682 has 213 MA's), (93, 18805), (95, 18811), (96, 18817), (116, 18880), (129, 18922), (155, 19000), (167, 19048), (178, 19072), (182, 19090), (184, 19096),

Gene: ForDig_22 Start: 17846, Stop: 18259, Start Num: 52

Candidate Starts for ForDig_22:

(Start: 52 @17846 has 55 MA's), (104, 18014), (116, 18041), (129, 18083), (153, 18158),

Gene: Fortunato_23 Start: 19330, Stop: 19743, Start Num: 58

Candidate Starts for Fortunato_23:

(Start: 58 @19330 has 34 MA's), (93, 19444), (95, 19450), (96, 19456), (104, 19492), (120, 19531), (124, 19543), (129, 19561), (155, 19639), (160, 19654), (175, 19708), (178, 19711), (184, 19735),

Gene: Forza_96 Start: 51899, Stop: 52306, Start Num: 63

Candidate Starts for Forza_96:

(Start: 61 @51896 has 46 MA's), (Start: 63 @51899 has 6 MA's), (72, 51935), (89, 51989), (93, 52010), (124, 52112), (127, 52124), (133, 52166), (134, 52175), (142, 52202), (160, 52244), (167, 52277), (171, 52289), (174, 52298),

Gene: Fosterous_28 Start: 23152, Stop: 23586, Start Num: 62

Candidate Starts for Fosterous_28:

(41, 23122), (Start: 62 @23152 has 90 MA's), (91, 23236), (107, 23311), (119, 23335), (137, 23413), (172, 23506), (188, 23557),

Gene: Fozzie_24 Start: 18685, Stop: 19107, Start Num: 53

Candidate Starts for Fozzie_24:

(34, 18619), (Start: 53 @18685 has 213 MA's), (93, 18808), (95, 18814), (96, 18820), (116, 18883), (129, 18925), (155, 19003), (167, 19051), (178, 19075), (182, 19093), (184, 19099),

Gene: FrankDeliGuy_31 Start: 21910, Stop: 22314, Start Num: 47

Candidate Starts for FrankDeliGuy_31:

(Start: 47 @21910 has 43 MA's), (Start: 55 @21922 has 20 MA's), (123, 22120), (129, 22141), (144, 22186), (148, 22195), (187, 22300), (189, 22309),

Gene: Frankicide_25 Start: 18676, Stop: 19098, Start Num: 53

Candidate Starts for Frankicide_25:

(34, 18610), (Start: 53 @18676 has 213 MA's), (93, 18799), (95, 18805), (96, 18811), (116, 18874), (129, 18916), (155, 18994), (167, 19042), (178, 19066), (182, 19084), (184, 19090),

Gene: Fransoyer_35 Start: 21775, Stop: 22191, Start Num: 47

Candidate Starts for Fransoyer_35:

(23, 21652), (37, 21742), (Start: 47 @21775 has 43 MA's), (92, 21886), (150, 22072), (154, 22075), (189, 22186),

Gene: Frederick_23 Start: 19339, Stop: 19752, Start Num: 58

Candidate Starts for Frederick_23:

(Start: 58 @19339 has 34 MA's), (93, 19453), (95, 19459), (96, 19465), (104, 19501), (120, 19540), (124, 19552), (129, 19570), (155, 19648), (160, 19663), (175, 19717), (178, 19720), (184, 19744),

Gene: Fregley_33 Start: 21097, Stop: 21492, Start Num: 47

Candidate Starts for Fregley_33:

(Start: 47 @21097 has 43 MA's), (73, 21148), (99, 21256), (129, 21331), (157, 21397), (187, 21484),

Gene: Fresco_22 Start: 17225, Stop: 17635, Start Num: 55

Candidate Starts for Fresco_22:

(Start: 55 @17225 has 20 MA's), (86, 17306), (93, 17345), (96, 17357), (106, 17399), (109, 17405), (116, 17423), (141, 17513),

Gene: Freya_24 Start: 18371, Stop: 18793, Start Num: 53

Candidate Starts for Freya_24:

(34, 18305), (Start: 53 @18371 has 213 MA's), (93, 18494), (95, 18500), (96, 18506), (116, 18569), (129, 18611), (155, 18689), (167, 18737), (178, 18761), (182, 18779), (184, 18785),

Gene: FriarPreacher_25 Start: 18696, Stop: 19118, Start Num: 53

Candidate Starts for FriarPreacher_25:

(34, 18630), (Start: 53 @18696 has 213 MA's), (93, 18819), (95, 18825), (96, 18831), (116, 18894), (129, 18936), (155, 19014), (167, 19062), (178, 19086), (182, 19104), (184, 19110),

Gene: Fringe_25 Start: 18660, Stop: 19082, Start Num: 53

Candidate Starts for Fringe_25:

(34, 18594), (Start: 53 @18660 has 213 MA's), (93, 18783), (95, 18789), (96, 18795), (116, 18858), (129, 18900), (155, 18978), (167, 19026), (178, 19050), (182, 19068), (184, 19074),

Gene: FuegoCuervo_32 Start: 21703, Stop: 22137, Start Num: 62

Candidate Starts for FuegoCuervo_32:

(41, 21664), (Start: 62 @21703 has 90 MA's), (91, 21787), (107, 21862), (137, 21964), (143, 21985), (172, 22057), (188, 22108),

Gene: FugateOSU_24 Start: 18382, Stop: 18804, Start Num: 53

Candidate Starts for FugateOSU_24:

(34, 18316), (Start: 53 @18382 has 213 MA's), (93, 18505), (95, 18511), (96, 18517), (116, 18580), (129, 18622), (142, 18673), (155, 18700), (167, 18748), (178, 18772), (182, 18790), (184, 18796),

Gene: Fugax_28 Start: 18286, Stop: 18729, Start Num: 62

Candidate Starts for Fugax_28:

(Start: 62 @18286 has 90 MA's), (137, 18547), (188, 18703),

Gene: Funsized_28 Start: 21759, Stop: 22175, Start Num: 57

Candidate Starts for Funsized_28:

(Start: 57 @21759 has 22 MA's), (95, 21882), (96, 21888), (104, 21924), (129, 21993), (142, 22044), (155, 22071), (160, 22086), (184, 22167),

Gene: GMA2_25 Start: 22256, Stop: 22675, Start Num: 55

Candidate Starts for GMA2_25:

(Start: 55 @22256 has 20 MA's), (Start: 63 @22268 has 6 MA's), (79, 22325), (102, 22424), (124, 22481), (133, 22535), (134, 22544), (155, 22595), (171, 22655),

Gene: GTE6_27 Start: 20119, Stop: 20550, Start Num: 62

Candidate Starts for GTE6_27:

(22, 19951), (Start: 62 @20119 has 90 MA's), (91, 20203), (107, 20278), (142, 20398), (149, 20413), (177, 20482), (187, 20521), (188, 20524),

Gene: Gadget_27 Start: 19373, Stop: 19786, Start Num: 61

Candidate Starts for Gadget_27:

(Start: 61 @19373 has 46 MA's), (95, 19493), (96, 19499), (109, 19547), (131, 19631), (175, 19757),

Gene: Gaea_29 Start: 21701, Stop: 22135, Start Num: 50

Candidate Starts for Gaea_29:

(Start: 50 @21701 has 8 MA's), (82, 21755), (91, 21785), (107, 21860), (137, 21962), (143, 21983), (172, 22055), (188, 22106),

Gene: Galadriel_30 Start: 23641, Stop: 24075, Start Num: 62

Candidate Starts for Galadriel_30:

(41, 23611), (Start: 62 @23641 has 90 MA's), (91, 23725), (107, 23800), (119, 23824), (137, 23902), (172, 23995), (188, 24046),

Gene: Gareth_24 Start: 18379, Stop: 18801, Start Num: 53

Candidate Starts for Gareth_24:

(34, 18313), (Start: 53 @18379 has 213 MA's), (93, 18502), (95, 18508), (96, 18514), (116, 18577), (129, 18619), (155, 18697), (167, 18745), (178, 18769), (182, 18787), (184, 18793),

Gene: Gazebo_32 Start: 22390, Stop: 22803, Start Num: 47

Candidate Starts for Gazebo_32:

(33, 22333), (Start: 47 @22390 has 43 MA's), (81, 22462), (99, 22549), (142, 22666), (148, 22681),

Gene: GeneCoco_25 Start: 18681, Stop: 19103, Start Num: 52

Candidate Starts for GeneCoco_25:

(Start: 52 @18681 has 55 MA's), (93, 18804), (95, 18810), (96, 18816), (116, 18879), (129, 18921), (155, 18999), (167, 19047), (178, 19071), (182, 19089), (184, 19095),

Gene: Geodirt_27 Start: 22624, Stop: 23058, Start Num: 62

Candidate Starts for Geodirt_27:

(41, 22594), (Start: 62 @22624 has 90 MA's), (91, 22708), (107, 22783), (119, 22807), (137, 22885), (172, 22978), (188, 23029),

Gene: Gervas_26 Start: 19347, Stop: 19760, Start Num: 61

Candidate Starts for Gervas_26:

(Start: 61 @19347 has 46 MA's), (95, 19467), (96, 19473), (109, 19521), (131, 19605), (175, 19731),

Gene: Gezellig_27 Start: 17704, Stop: 18147, Start Num: 62

Candidate Starts for Gezellig_27:

(Start: 62 @17704 has 90 MA's), (137, 17965), (188, 18121),

Gene: GinPorsche_22 Start: 18304, Stop: 18717, Start Num: 58

Candidate Starts for GinPorsche_22:

(Start: 58 @18304 has 34 MA's), (93, 18418), (95, 18424), (96, 18430), (104, 18466), (116, 18493), (120, 18505), (124, 18517), (129, 18535), (155, 18613), (175, 18682), (184, 18709),

Gene: Giraffe_25 Start: 18384, Stop: 18806, Start Num: 53

Candidate Starts for Giraffe_25:

(34, 18318), (Start: 53 @18384 has 213 MA's), (93, 18507), (95, 18513), (96, 18519), (116, 18582), (129, 18624), (142, 18675), (155, 18702), (167, 18750), (178, 18774), (182, 18792), (184, 18798),

Gene: GlenHope_27 Start: 19356, Stop: 19769, Start Num: 61

Candidate Starts for GlenHope_27:

(Start: 61 @19356 has 46 MA's), (95, 19476), (96, 19482), (109, 19530), (131, 19614), (175, 19740),

Gene: Glubnar_26 Start: 19368, Stop: 19781, Start Num: 61

Candidate Starts for Glubnar_26:

(Start: 61 @19368 has 46 MA's), (86, 19443), (95, 19488), (96, 19494), (131, 19626), (175, 19752),

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

Candidate Starts for GodPhather_20:

(Start: 58 @18473 has 34 MA's), (86, 18548), (95, 18593), (96, 18599), (106, 18641), (116, 18665), (123, 18686), (153, 18788), (167, 18833),

Gene: GodonK_84 Start: 43620, Stop: 44033, Start Num: 47

Candidate Starts for GodonK_84:

(Start: 47 @43620 has 43 MA's), (65, 43653), (92, 43746), (96, 43770), (103, 43803), (112, 43830), (114, 43833), (136, 43905), (142, 43926), (159, 43965), (176, 44025),

Gene: GoldenEssence_76 Start: 47214, Stop: 47597, Start Num: 61

Candidate Starts for GoldenEssence_76:

(Start: 61 @47214 has 46 MA's), (72, 47253), (97, 47355), (105, 47379), (113, 47400), (126, 47439), (142, 47493), (155, 47520), (159, 47532),

Gene: Gophee_25 Start: 18662, Stop: 19084, Start Num: 53

Candidate Starts for Gophee_25:

(34, 18596), (Start: 53 @18662 has 213 MA's), (93, 18785), (95, 18791), (96, 18797), (116, 18860), (129, 18902), (155, 18980), (167, 19028), (178, 19052), (182, 19070), (184, 19076),

Gene: Grand2040_24 Start: 18399, Stop: 18821, Start Num: 53

Candidate Starts for Grand2040_24:

(34, 18333), (Start: 53 @18399 has 213 MA's), (93, 18522), (95, 18528), (96, 18534), (116, 18597), (129, 18639), (142, 18690), (155, 18717), (167, 18765), (178, 18789), (182, 18807), (184, 18813),

Gene: Grassboy_34 Start: 22564, Stop: 22977, Start Num: 47

Candidate Starts for Grassboy_34:

(33, 22507), (Start: 47 @22564 has 43 MA's), (99, 22723), (142, 22840), (148, 22855),

Gene: Gustavo_29 Start: 21853, Stop: 22287, Start Num: 62

Candidate Starts for Gustavo_29:

(51, 21844), (Start: 62 @21853 has 90 MA's), (91, 21937), (107, 22012), (137, 22114), (143, 22135), (166, 22192), (172, 22207), (188, 22258),

Gene: Gwilliam_25 Start: 18672, Stop: 19094, Start Num: 53

Candidate Starts for Gwilliam_25:

(34, 18606), (Start: 53 @18672 has 213 MA's), (93, 18795), (95, 18801), (96, 18807), (116, 18870), (129, 18912), (155, 18990), (167, 19038), (178, 19062), (182, 19080), (184, 19086),

Gene: Gyarad_0025 Start: 18674, Stop: 19096, Start Num: 53

Candidate Starts for Gyarad_0025:

(34, 18608), (Start: 53 @18674 has 213 MA's), (93, 18797), (95, 18803), (96, 18809), (116, 18872), (129, 18914), (155, 18992), (167, 19040), (178, 19064), (182, 19082), (184, 19088),

Gene: HSavage_25 Start: 18682, Stop: 19104, Start Num: 53

Candidate Starts for HSavage_25:

(34, 18616), (Start: 53 @18682 has 213 MA's), (93, 18805), (95, 18811), (96, 18817), (116, 18880), (129, 18922), (155, 19000), (167, 19048), (178, 19072), (182, 19090), (184, 19096),

Gene: Haimas_25 Start: 18677, Stop: 19099, Start Num: 53

Candidate Starts for Haimas_25:

(34, 18611), (Start: 53 @18677 has 213 MA's), (93, 18800), (95, 18806), (96, 18812), (116, 18875), (129, 18917), (155, 18995), (167, 19043), (178, 19067), (182, 19085), (184, 19091),

Gene: Haleema_24 Start: 18399, Stop: 18821, Start Num: 53

Candidate Starts for Haleema_24:

(34, 18333), (Start: 53 @18399 has 213 MA's), (93, 18522), (95, 18528), (96, 18534), (116, 18597), (129, 18639), (155, 18717), (167, 18765), (178, 18789), (182, 18807), (184, 18813),

Gene: Halfpint_25 Start: 19188, Stop: 19601, Start Num: 61

Candidate Starts for Halfpint_25:

(Start: 61 @19188 has 46 MA's), (95, 19308), (96, 19314), (109, 19362), (131, 19446), (175, 19572),

Gene: Hally898_22 Start: 18304, Stop: 18717, Start Num: 58

Candidate Starts for Hally898_22:

(Start: 58 @18304 has 34 MA's), (93, 18418), (95, 18424), (96, 18430), (104, 18466), (116, 18493), (120, 18505), (124, 18517), (129, 18535), (155, 18613), (175, 18682), (184, 18709),

Gene: Halo3_27 Start: 17997, Stop: 18440, Start Num: 62

Candidate Starts for Halo3_27:

(Start: 62 @17997 has 90 MA's), (137, 18258), (188, 18414),

Gene: Hamish_25 Start: 18669, Stop: 19091, Start Num: 53

Candidate Starts for Hamish_25:

(34, 18603), (Start: 53 @18669 has 213 MA's), (93, 18792), (95, 18798), (96, 18804), (116, 18867), (129, 18909), (155, 18987), (167, 19035), (178, 19059), (182, 19077), (184, 19083),

Gene: Hangman_23 Start: 19331, Stop: 19744, Start Num: 58

Candidate Starts for Hangman_23:

(Start: 58 @19331 has 34 MA's), (93, 19445), (95, 19451), (96, 19457), (104, 19493), (120, 19532), (124, 19544), (129, 19562), (155, 19640), (175, 19709), (178, 19712), (184, 19736),

Gene: Hans_30 Start: 21408, Stop: 21839, Start Num: 62

Candidate Starts for Hans_30:

(17, 21216), (43, 21381), (Start: 62 @21408 has 90 MA's), (91, 21492), (118, 21588), (137, 21669), (139, 21675), (142, 21687), (166, 21747), (177, 21771), (187, 21810), (188, 21813),

Gene: Hartsy_25 Start: 18692, Stop: 19114, Start Num: 52

Candidate Starts for Hartsy_25:

(Start: 52 @18692 has 55 MA's), (81, 18764), (93, 18815), (95, 18821), (96, 18827), (116, 18890), (129, 18932), (155, 19010), (167, 19058), (178, 19082), (182, 19100), (184, 19106),

Gene: Harvey_25 Start: 18698, Stop: 19120, Start Num: 53

Candidate Starts for Harvey_25:

(34, 18632), (Start: 53 @18698 has 213 MA's), (93, 18821), (95, 18827), (96, 18833), (116, 18896), (129, 18938), (155, 19016), (167, 19064), (178, 19088), (182, 19106), (184, 19112),

Gene: HarveySr_26 Start: 19343, Stop: 19756, Start Num: 61

Candidate Starts for HarveySr_26:

(Start: 61 @19343 has 46 MA's), (95, 19463), (96, 19469), (131, 19601), (175, 19727),

Gene: Hashim76_29 Start: 19154, Stop: 19570, Start Num: 57

Candidate Starts for Hashim76_29:

(Start: 57 @19154 has 22 MA's), (95, 19277), (99, 19307), (155, 19466), (160, 19481), (184, 19562),

Gene: Heath_22 Start: 18962, Stop: 19375, Start Num: 58

Candidate Starts for Heath_22:

(Start: 58 @18962 has 34 MA's), (93, 19076), (95, 19082), (96, 19088), (104, 19124), (120, 19163), (124, 19175), (129, 19193), (155, 19271), (175, 19340), (178, 19343), (184, 19367),

Gene: Heathcliff_26 Start: 19325, Stop: 19738, Start Num: 61

Candidate Starts for Heathcliff_26:

(Start: 61 @19325 has 46 MA's), (95, 19445), (96, 19451), (109, 19499), (131, 19583), (175, 19709),

Gene: Held_25 Start: 18383, Stop: 18805, Start Num: 53

Candidate Starts for Held_25:

(34, 18317), (Start: 53 @18383 has 213 MA's), (93, 18506), (95, 18512), (96, 18518), (116, 18581), (129, 18623), (155, 18701), (167, 18749), (178, 18773), (182, 18791), (184, 18797),

Gene: HenryJackson_24 Start: 18399, Stop: 18821, Start Num: 53

Candidate Starts for HenryJackson_24:

(34, 18333), (Start: 53 @18399 has 213 MA's), (93, 18522), (95, 18528), (96, 18534), (116, 18597), (129, 18639), (155, 18717), (167, 18765), (178, 18789), (182, 18807), (184, 18813),

Gene: Hertubise_25 Start: 18691, Stop: 19113, Start Num: 53

Candidate Starts for Hertubise_25:

(34, 18625), (Start: 53 @18691 has 213 MA's), (93, 18814), (95, 18820), (96, 18826), (116, 18889), (129, 18931), (155, 19009), (167, 19057), (178, 19081), (182, 19099), (184, 19105),

Gene: Hetaeria_25 Start: 18692, Stop: 19114, Start Num: 53

Candidate Starts for Hetaeria_25:

(34, 18626), (Start: 53 @18692 has 213 MA's), (93, 18815), (95, 18821), (96, 18827), (116, 18890), (129, 18932), (142, 18983), (155, 19010), (167, 19058), (178, 19082), (182, 19100), (184, 19106),

Gene: HighStump_24 Start: 18382, Stop: 18804, Start Num: 53

Candidate Starts for HighStump_24:

(34, 18316), (Start: 53 @18382 has 213 MA's), (93, 18505), (95, 18511), (96, 18517), (116, 18580), (129, 18622), (142, 18673), (155, 18700), (167, 18748), (178, 18772), (182, 18790), (184, 18796),

Gene: Hocus_24 Start: 18385, Stop: 18807, Start Num: 52

Candidate Starts for Hocus_24:

(Start: 52 @18385 has 55 MA's), (93, 18508), (95, 18514), (96, 18520), (116, 18583), (129, 18625), (155, 18703), (167, 18751), (178, 18775), (182, 18793), (184, 18799),

Gene: Horchata_25 Start: 18661, Stop: 19083, Start Num: 53

Candidate Starts for Horchata_25:

(34, 18595), (Start: 53 @18661 has 213 MA's), (93, 18784), (95, 18790), (96, 18796), (116, 18859), (129, 18901), (155, 18979), (167, 19027), (178, 19051), (182, 19069), (184, 19075),

Gene: Hosp_019 Start: 16062, Stop: 16475, Start Num: 52

Candidate Starts for Hosp_019:

(Start: 52 @16062 has 55 MA's), (88, 16152), (104, 16230), (116, 16257), (129, 16299), (153, 16374),

Gene: Hydro_23 Start: 19336, Stop: 19749, Start Num: 58

Candidate Starts for Hydro_23:

(Start: 58 @19336 has 34 MA's), (93, 19450), (95, 19456), (96, 19462), (104, 19498), (120, 19537), (124, 19549), (129, 19567), (155, 19645), (167, 19693), (175, 19714), (178, 19717), (184, 19741),

Gene: Hyperion_32 Start: 22347, Stop: 22760, Start Num: 47

Candidate Starts for Hyperion_32:

(33, 22290), (Start: 47 @22347 has 43 MA's), (99, 22506), (142, 22623), (148, 22638),

Gene: ImtiyazSitla_24 Start: 18226, Stop: 18648, Start Num: 52

Candidate Starts for ImtiyazSitla_24:

(Start: 52 @18226 has 55 MA's), (93, 18349), (95, 18355), (96, 18361), (116, 18424), (129, 18466), (155, 18544), (167, 18592), (178, 18616), (182, 18634), (184, 18640),

Gene: Imvubu_19 Start: 16429, Stop: 16845, Start Num: 57

Candidate Starts for Imvubu_19:

(Start: 57 @16429 has 22 MA's), (Start: 63 @16438 has 6 MA's), (95, 16552), (120, 16633), (145, 16723), (182, 16831), (184, 16837),

Gene: Inchworm_25 Start: 18668, Stop: 19090, Start Num: 53

Candidate Starts for Inchworm_25:

(34, 18602), (Start: 53 @18668 has 213 MA's), (93, 18791), (95, 18797), (96, 18803), (116, 18866), (129, 18908), (155, 18986), (167, 19034), (178, 19058), (182, 19076), (184, 19082),

Gene: Indlovu_23 Start: 19044, Stop: 19460, Start Num: 52

Candidate Starts for Indlovu_23:

(Start: 52 @19044 has 55 MA's), (104, 19212), (129, 19281), (155, 19359), (175, 19428), (178, 19431),

Gene: Inspectinfecti_29 Start: 21832, Stop: 22263, Start Num: 62

Candidate Starts for Inspectinfecti_29:

(13, 21604), (17, 21640), (43, 21805), (Start: 62 @21832 has 90 MA's), (91, 21916), (118, 22012), (137, 22093), (139, 22099), (142, 22111), (166, 22171), (177, 22195), (187, 22234), (188, 22237),

Gene: Inverness_25 Start: 18682, Stop: 19104, Start Num: 53

Candidate Starts for Inverness_25:

(34, 18616), (Start: 53 @18682 has 213 MA's), (93, 18805), (95, 18811), (96, 18817), (116, 18880), (129, 18922), (155, 19000), (167, 19048), (178, 19072), (182, 19090), (184, 19096),

Gene: Iridoclysis_25 Start: 18656, Stop: 19078, Start Num: 53

Candidate Starts for Iridoclysis_25:

(34, 18590), (Start: 53 @18656 has 213 MA's), (93, 18779), (95, 18785), (96, 18791), (116, 18854), (129, 18896), (155, 18974), (167, 19022), (178, 19046), (182, 19064), (184, 19070),

Gene: IsaacEli_25 Start: 18686, Stop: 19108, Start Num: 53

Candidate Starts for IsaacEli_25:

(34, 18620), (Start: 53 @18686 has 213 MA's), (93, 18809), (95, 18815), (96, 18821), (116, 18884), (129, 18926), (142, 18977), (155, 19004), (167, 19052), (178, 19076), (182, 19094), (184, 19100),

Gene: JAMaL_23 Start: 19500, Stop: 19913, Start Num: 58

Candidate Starts for JAMaL_23:

(Start: 58 @19500 has 34 MA's), (72, 19539), (96, 19626), (116, 19689), (120, 19701), (129, 19731), (184, 19905),

Gene: JDog_24 Start: 18392, Stop: 18814, Start Num: 52

Candidate Starts for JDog_24:

(Start: 52 @18392 has 55 MA's), (93, 18515), (95, 18521), (96, 18527), (116, 18590), (129, 18632), (155, 18710), (167, 18758), (178, 18782), (182, 18800), (184, 18806),

Gene: JKSyngboy_27 Start: 22410, Stop: 22844, Start Num: 50

Candidate Starts for JKSyngboy_27:

(Start: 50 @22410 has 8 MA's), (82, 22464), (91, 22494), (96, 22524), (107, 22569), (137, 22671), (143, 22692), (172, 22764), (188, 22815),

Gene: Jabberwocky_28 Start: 23780, Stop: 24214, Start Num: 62

Candidate Starts for Jabberwocky_28:

(41, 23750), (Start: 62 @23780 has 90 MA's), (91, 23864), (107, 23939), (119, 23963), (137, 24041), (143, 24062), (172, 24134), (188, 24185),

Gene: JacAttac_25 Start: 18668, Stop: 19090, Start Num: 53

Candidate Starts for JacAttac_25:

(34, 18602), (Start: 53 @18668 has 213 MA's), (93, 18791), (95, 18797), (96, 18803), (116, 18866), (129, 18908), (155, 18986), (167, 19034), (178, 19058), (182, 19076), (184, 19082),

Gene: JaguarMi_23 Start: 18798, Stop: 19211, Start Num: 58

Candidate Starts for JaguarMi_23:

(Start: 58 @18798 has 34 MA's), (93, 18912), (95, 18918), (96, 18924), (104, 18960), (120, 18999), (124, 19011), (129, 19029), (155, 19107), (175, 19176), (178, 19179), (184, 19203),

Gene: JakeO_24 Start: 18392, Stop: 18814, Start Num: 52

Candidate Starts for JakeO_24:

(Start: 52 @18392 has 55 MA's), (93, 18515), (95, 18521), (96, 18527), (116, 18590), (129, 18632), (155, 18710), (167, 18758), (178, 18782), (182, 18800), (184, 18806),

Gene: Jambalaya_26 Start: 17351, Stop: 17794, Start Num: 62

Candidate Starts for Jambalaya_26:

(Start: 62 @17351 has 90 MA's), (137, 17612), (188, 17768),

Gene: JangoPhett_25 Start: 18666, Stop: 19088, Start Num: 53

Candidate Starts for JangoPhett_25:

(34, 18600), (Start: 53 @18666 has 213 MA's), (93, 18789), (95, 18795), (96, 18801), (116, 18864), (129, 18906), (155, 18984), (167, 19032), (178, 19056), (182, 19074), (184, 19080),

Gene: Jehoshaphat_35 Start: 22869, Stop: 23273, Start Num: 47

Candidate Starts for Jehoshaphat_35:

(33, 22812), (Start: 47 @22869 has 43 MA's), (67, 22905), (123, 23079), (129, 23100), (144, 23145), (148, 23154), (187, 23259), (189, 23268),

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

Candidate Starts for Jeon_19:

(Start: 58 @18215 has 34 MA's), (86, 18290), (95, 18335), (96, 18341), (106, 18383), (116, 18407), (123, 18428), (153, 18530), (167, 18575),

Gene: Jesabah_25 Start: 18394, Stop: 18816, Start Num: 53

Candidate Starts for Jesabah_25:

(34, 18328), (Start: 53 @18394 has 213 MA's), (93, 18517), (95, 18523), (96, 18529), (116, 18592), (129, 18634), (155, 18712), (167, 18760), (178, 18784), (182, 18802), (184, 18808),

Gene: Jillium_24 Start: 18392, Stop: 18814, Start Num: 53

Candidate Starts for Jillium_24:

(34, 18326), (Start: 53 @18392 has 213 MA's), (93, 18515), (95, 18521), (96, 18527), (116, 18590), (129, 18632), (155, 18710), (167, 18758), (178, 18782), (182, 18800), (184, 18806),

Gene: Jiminy_24 Start: 18230, Stop: 18652, Start Num: 52

Candidate Starts for Jiminy_24:

(Start: 52 @18230 has 55 MA's), (93, 18353), (95, 18359), (96, 18365), (116, 18428), (129, 18470), (155, 18548), (167, 18596), (178, 18620), (182, 18638), (184, 18644),

Gene: Jiraiya_24 Start: 18390, Stop: 18812, Start Num: 53

Candidate Starts for Jiraiya_24:

(34, 18324), (Start: 53 @18390 has 213 MA's), (93, 18513), (95, 18519), (96, 18525), (116, 18588), (129, 18630), (155, 18708), (167, 18756), (178, 18780), (182, 18798), (184, 18804),

Gene: Jolie1_021 Start: 17832, Stop: 18245, Start Num: 52

Candidate Starts for Jolie1_021:

(Start: 52 @17832 has 55 MA's), (104, 18000), (107, 18009), (116, 18027), (153, 18144),

Gene: Judebell_35 Start: 22375, Stop: 22779, Start Num: 47

Candidate Starts for Judebell_35:

(Start: 47 @22375 has 43 MA's), (Start: 55 @22387 has 20 MA's), (123, 22585), (129, 22606), (144, 22651), (148, 22660), (187, 22765), (189, 22774),

Gene: KLucky39_25 Start: 18674, Stop: 19096, Start Num: 53

Candidate Starts for KLucky39_25:

(34, 18608), (Start: 53 @18674 has 213 MA's), (93, 18797), (95, 18803), (96, 18809), (116, 18872), (129, 18914), (155, 18992), (167, 19040), (178, 19064), (182, 19082), (184, 19088),

Gene: KSunshine22_82 Start: 50145, Stop: 50489, Start Num: 72

Candidate Starts for KSunshine22_82:

(Start: 63 @50109 has 6 MA's), (72, 50145), (96, 50232), (115, 50295), (124, 50322), (126, 50331), (160, 50427),

Gene: Kahve_24 Start: 18396, Stop: 18818, Start Num: 53

Candidate Starts for Kahve_24:

(34, 18330), (Start: 53 @18396 has 213 MA's), (93, 18519), (95, 18525), (96, 18531), (116, 18594), (129, 18636), (142, 18687), (155, 18714), (167, 18762), (178, 18786), (182, 18804), (184, 18810),

Gene: Kailash_25 Start: 18704, Stop: 19126, Start Num: 52

Candidate Starts for Kailash_25:

(Start: 52 @18704 has 55 MA's), (81, 18776), (93, 18827), (95, 18833), (96, 18839), (116, 18902), (129, 18944), (155, 19022), (167, 19070), (178, 19094), (182, 19112), (184, 19118),

Gene: Kamashten_29 Start: 23229, Stop: 23663, Start Num: 62

Candidate Starts for Kamashten_29:

(41, 23199), (Start: 62 @23229 has 90 MA's), (91, 23313), (107, 23388), (119, 23412), (137, 23490), (143, 23511), (172, 23583), (188, 23634),

Gene: Kamiyu_26 Start: 19332, Stop: 19745, Start Num: 61

Candidate Starts for Kamiyu_26:

(Start: 61 @19332 has 46 MA's), (86, 19407), (95, 19452), (96, 19458), (131, 19590), (175, 19716),

Gene: KarasumaRum_27 Start: 19514, Stop: 19930, Start Num: 57

Candidate Starts for KarasumaRum_27:

(Start: 57 @19514 has 22 MA's), (116, 19706), (142, 19799), (185, 19925),

Gene: Katniss_25 Start: 18694, Stop: 19116, Start Num: 53

Candidate Starts for Katniss_25:

(34, 18628), (Start: 53 @18694 has 213 MA's), (93, 18817), (95, 18823), (96, 18829), (116, 18892), (129, 18934), (155, 19012), (167, 19060), (178, 19084), (182, 19102), (184, 19108),

Gene: KayaCho_21 Start: 17836, Stop: 18249, Start Num: 52

Candidate Starts for KayaCho_21:

(Start: 52 @17836 has 55 MA's), (96, 17968), (104, 18004), (116, 18031), (129, 18073), (153, 18148), (155, 18151),

Gene: Keitabear_30 Start: 24585, Stop: 25019, Start Num: 62

Candidate Starts for Keitabear_30:

(41, 24555), (Start: 62 @24585 has 90 MA's), (91, 24669), (107, 24744), (119, 24768), (137, 24846), (143, 24867), (172, 24939), (188, 24990),

Gene: Keitherie_25 Start: 18714, Stop: 19136, Start Num: 52

Candidate Starts for Keitherie_25:

(Start: 52 @18714 has 55 MA's), (81, 18786), (93, 18837), (95, 18843), (96, 18849), (116, 18912), (129, 18954), (155, 19032), (167, 19080), (178, 19104), (182, 19122), (184, 19128),

Gene: Kelcole_31 Start: 20979, Stop: 21374, Start Num: 47

Candidate Starts for Kelcole_31:

(Start: 47 @20979 has 43 MA's), (68, 21021), (73, 21030), (99, 21138), (142, 21252), (157, 21279), (187, 21366),

Gene: Kewpiedoll_29 Start: 22426, Stop: 22860, Start Num: 62

Candidate Starts for Kewpiedoll_29:

(41, 22396), (Start: 62 @22426 has 90 MA's), (91, 22510), (107, 22585), (119, 22609), (137, 22687), (143, 22708), (172, 22780), (188, 22831),

Gene: Khan1_25 Start: 18410, Stop: 18832, Start Num: 52

Candidate Starts for Khan1_25:

(Start: 52 @18410 has 55 MA's), (81, 18482), (93, 18533), (95, 18539), (96, 18545), (116, 18608), (129, 18650), (155, 18728), (167, 18776), (178, 18800), (182, 18818), (184, 18824),

Gene: Kikipoo_25 Start: 18686, Stop: 19108, Start Num: 53

Candidate Starts for Kikipoo_25:

(34, 18620), (Start: 53 @18686 has 213 MA's), (93, 18809), (95, 18815), (96, 18821), (116, 18884), (129, 18926), (142, 18977), (155, 19004), (167, 19052), (178, 19076), (182, 19094), (184, 19100),

Gene: Kimbrough_25 Start: 18388, Stop: 18810, Start Num: 53

Candidate Starts for Kimbrough_25:

(34, 18322), (Start: 53 @18388 has 213 MA's), (93, 18511), (95, 18517), (96, 18523), (116, 18586), (129, 18628), (155, 18706), (167, 18754), (178, 18778), (182, 18796), (184, 18802),

Gene: KimmyK_28 Start: 18286, Stop: 18729, Start Num: 62

Candidate Starts for KimmyK_28:

(Start: 62 @18286 has 90 MA's), (137, 18547), (188, 18703),

Gene: KingVeVeVe_25 Start: 18665, Stop: 19087, Start Num: 53

Candidate Starts for KingVeVeVe_25:

(34, 18599), (Start: 53 @18665 has 213 MA's), (93, 18788), (95, 18794), (96, 18800), (116, 18863), (129, 18905), (155, 18983), (167, 19031), (178, 19055), (182, 19073), (184, 19079),

Gene: Kithara_33 Start: 23575, Stop: 23991, Start Num: 42

Candidate Starts for Kithara_33:

(Start: 42 @23575 has 1 MA's), (73, 23635), (81, 23656), (158, 23896), (169, 23938),

Gene: KlimbOn_25 Start: 18674, Stop: 19096, Start Num: 53

Candidate Starts for KlimbOn_25:

(34, 18608), (Start: 53 @18674 has 213 MA's), (93, 18797), (95, 18803), (96, 18809), (116, 18872), (129, 18914), (155, 18992), (167, 19040), (178, 19064), (182, 19082), (184, 19088),

Gene: Kloppinator_25 Start: 18694, Stop: 19116, Start Num: 53

Candidate Starts for Kloppinator_25:

(34, 18628), (Start: 53 @18694 has 213 MA's), (93, 18817), (95, 18823), (96, 18829), (116, 18892), (129, 18934), (155, 19012), (167, 19060), (178, 19084), (182, 19102), (184, 19108),

Gene: Knocker_27 Start: 21795, Stop: 22214, Start Num: 57

Candidate Starts for Knocker_27:

(Start: 57 @21795 has 22 MA's), (96, 21924), (104, 21960), (124, 22011), (129, 22029), (142, 22080), (155, 22107), (160, 22122), (178, 22179), (182, 22197), (184, 22203),

Gene: Kronus_25 Start: 19946, Stop: 20359, Start Num: 61
Candidate Starts for Kronus_25:
(Start: 61 @19946 has 46 MA's), (95, 20066), (96, 20072), (109, 20120), (131, 20204), (175, 20330),

Gene: Kroos_30 Start: 22606, Stop: 23040, Start Num: 62
Candidate Starts for Kroos_30:
(51, 22597), (Start: 62 @22606 has 90 MA's), (91, 22690), (107, 22765), (137, 22867), (143, 22888),
(166, 22945), (172, 22960), (188, 23011),

Gene: Kwadwo_24 Start: 18378, Stop: 18800, Start Num: 53
Candidate Starts for Kwadwo_24:
(34, 18312), (Start: 53 @18378 has 213 MA's), (93, 18501), (95, 18507), (96, 18513), (116, 18576),
(129, 18618), (155, 18696), (167, 18744), (178, 18768), (182, 18786), (184, 18792),

Gene: Kwekel_27 Start: 19551, Stop: 19982, Start Num: 62
Candidate Starts for Kwekel_27:
(Start: 62 @19551 has 90 MA's), (91, 19635), (107, 19710), (118, 19731), (142, 19830), (149, 19845),
(172, 19905), (187, 19953), (188, 19956), (189, 19965),

Gene: Kwksand96_24 Start: 18240, Stop: 18662, Start Num: 52
Candidate Starts for Kwksand96_24:
(Start: 52 @18240 has 55 MA's), (93, 18363), (95, 18369), (96, 18375), (116, 18438), (129, 18480),
(155, 18558), (167, 18606), (178, 18630), (182, 18648), (184, 18654),

Gene: Kwobi_30 Start: 22592, Stop: 23026, Start Num: 62
Candidate Starts for Kwobi_30:
(51, 22583), (Start: 62 @22592 has 90 MA's), (91, 22676), (107, 22751), (137, 22853), (143, 22874),
(166, 22931), (172, 22946), (188, 22997),

Gene: Kyva_35 Start: 22599, Stop: 23012, Start Num: 47
Candidate Starts for Kyva_35:
(33, 22542), (Start: 47 @22599 has 43 MA's), (99, 22758), (142, 22875), (148, 22890),

Gene: Labeouficaum_24 Start: 18236, Stop: 18658, Start Num: 52
Candidate Starts for Labeouficaum_24:
(Start: 52 @18236 has 55 MA's), (93, 18359), (95, 18365), (96, 18371), (116, 18434), (129, 18476),
(155, 18554), (167, 18602), (178, 18626), (182, 18644), (184, 18650),

Gene: Lambano_22 Start: 18304, Stop: 18717, Start Num: 58
Candidate Starts for Lambano_22:
(Start: 58 @18304 has 34 MA's), (93, 18418), (95, 18424), (96, 18430), (104, 18466), (116, 18493),
(120, 18505), (124, 18517), (129, 18535), (155, 18613), (175, 18682), (184, 18709),

Gene: LasagnaCat_25 Start: 18680, Stop: 19102, Start Num: 53
Candidate Starts for LasagnaCat_25:
(30, 18590), (34, 18614), (Start: 53 @18680 has 213 MA's), (93, 18803), (95, 18809), (96, 18815),
(116, 18878), (129, 18920), (155, 18998), (167, 19046), (178, 19070), (182, 19088), (184, 19094),

Gene: Lasso_25 Start: 18653, Stop: 19075, Start Num: 53
Candidate Starts for Lasso_25:
(34, 18587), (Start: 53 @18653 has 213 MA's), (93, 18776), (95, 18782), (96, 18788), (116, 18851),
(129, 18893), (142, 18944), (155, 18971), (167, 19019), (178, 19043), (182, 19061), (184, 19067),

Gene: LeeLot_25 Start: 18678, Stop: 19100, Start Num: 53

Candidate Starts for LeeLot_25:

(34, 18612), (Start: 53 @18678 has 213 MA's), (93, 18801), (95, 18807), (96, 18813), (116, 18876), (129, 18918), (155, 18996), (167, 19044), (178, 19068), (182, 19086), (184, 19092),

Gene: Lego3393_25 Start: 18690, Stop: 19112, Start Num: 53

Candidate Starts for Lego3393_25:

(34, 18624), (Start: 53 @18690 has 213 MA's), (93, 18813), (95, 18819), (96, 18825), (116, 18888), (129, 18930), (155, 19008), (167, 19056), (178, 19080), (182, 19098), (184, 19104),

Gene: Legolas_24 Start: 18394, Stop: 18816, Start Num: 53

Candidate Starts for Legolas_24:

(34, 18328), (Start: 53 @18394 has 213 MA's), (93, 18517), (95, 18523), (96, 18529), (116, 18592), (129, 18634), (155, 18712), (167, 18760), (178, 18784), (182, 18802), (184, 18808),

Gene: LeiMonet_25 Start: 18385, Stop: 18807, Start Num: 53

Candidate Starts for LeiMonet_25:

(34, 18319), (Start: 53 @18385 has 213 MA's), (93, 18508), (95, 18514), (96, 18520), (116, 18583), (129, 18625), (142, 18676), (155, 18703), (167, 18751), (178, 18775), (182, 18793), (184, 18799),

Gene: LemonSlice_25 Start: 18385, Stop: 18807, Start Num: 53

Candidate Starts for LemonSlice_25:

(34, 18319), (Start: 53 @18385 has 213 MA's), (93, 18508), (95, 18514), (96, 18520), (116, 18583), (129, 18625), (155, 18703), (167, 18751), (178, 18775), (182, 18793), (184, 18799),

Gene: Lennon_30 Start: 24387, Stop: 24821, Start Num: 62

Candidate Starts for Lennon_30:

(41, 24357), (Start: 62 @24387 has 90 MA's), (91, 24471), (107, 24546), (137, 24648), (143, 24669), (172, 24741), (188, 24792),

Gene: LeoJr_87 Start: 52158, Stop: 52538, Start Num: 63

Candidate Starts for LeoJr_87:

(Start: 63 @52158 has 6 MA's), (66, 52167), (72, 52194), (111, 52335), (126, 52380), (136, 52413), (160, 52476),

Gene: Leonard_28 Start: 21406, Stop: 21837, Start Num: 62

Candidate Starts for Leonard_28:

(13, 21178), (17, 21214), (43, 21379), (Start: 47 @21382 has 43 MA's), (Start: 62 @21406 has 90 MA's), (91, 21490), (118, 21586), (137, 21667), (139, 21673), (142, 21685), (166, 21745), (177, 21769), (187, 21808), (188, 21811),

Gene: LestyG_26 Start: 19367, Stop: 19780, Start Num: 61

Candidate Starts for LestyG_26:

(Start: 61 @19367 has 46 MA's), (86, 19442), (95, 19487), (96, 19493), (131, 19625), (175, 19751),

Gene: Ligma_22 Start: 17225, Stop: 17635, Start Num: 55

Candidate Starts for Ligma_22:

(Start: 55 @17225 has 20 MA's), (86, 17306), (93, 17345), (96, 17357), (106, 17399), (109, 17405), (116, 17423), (141, 17513),

Gene: LilHam_27 Start: 21186, Stop: 21620, Start Num: 62

Candidate Starts for LilHam_27:

(51, 21177), (Start: 62 @21186 has 90 MA's), (91, 21270), (107, 21345), (137, 21447), (143, 21468), (166, 21525), (172, 21540), (188, 21591),

Gene: LilMcDreamy_22 Start: 19306, Stop: 19722, Start Num: 57

Candidate Starts for LilMcDreamy_22:

(Start: 57 @19306 has 22 MA's), (88, 19393), (95, 19429), (96, 19435), (135, 19570), (155, 19618),

Gene: Lilbeanie_25 Start: 16498, Stop: 16914, Start Num: 59

Candidate Starts for Lilbeanie_25:

(Start: 59 @16498 has 1 MA's), (91, 16585), (149, 16795), (188, 16888),

Gene: LittleMunchkin_24 Start: 20052, Stop: 20465, Start Num: 55

Candidate Starts for LittleMunchkin_24:

(Start: 55 @20052 has 20 MA's), (81, 20121), (86, 20133), (96, 20184), (109, 20232), (155, 20370), (175, 20439),

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

Candidate Starts for Llemily_33:

(33, 21588), (Start: 47 @21645 has 43 MA's), (67, 21681), (123, 21855), (129, 21876), (144, 21921), (148, 21930), (187, 22035), (189, 22044),

Gene: Lolalove_23 Start: 19333, Stop: 19746, Start Num: 58

Candidate Starts for Lolalove_23:

(Start: 58 @19333 has 34 MA's), (93, 19447), (95, 19453), (96, 19459), (104, 19495), (120, 19534), (124, 19546), (129, 19564), (155, 19642), (167, 19690), (175, 19711), (178, 19714), (184, 19738),

Gene: Lonelysoil_32 Start: 21890, Stop: 22294, Start Num: 47

Candidate Starts for Lonelysoil_32:

(33, 21833), (Start: 47 @21890 has 43 MA's), (67, 21926), (123, 22100), (129, 22121), (144, 22166), (148, 22175), (187, 22280), (189, 22289),

Gene: Longacauda_24 Start: 18380, Stop: 18802, Start Num: 52

Candidate Starts for Longacauda_24:

(Start: 52 @18380 has 55 MA's), (93, 18503), (95, 18509), (96, 18515), (116, 18578), (129, 18620), (155, 18698), (167, 18746), (178, 18770), (182, 18788), (184, 18794),

Gene: Lopsy_24 Start: 18236, Stop: 18658, Start Num: 53

Candidate Starts for Lopsy_24:

(34, 18170), (Start: 53 @18236 has 213 MA's), (93, 18359), (95, 18365), (96, 18371), (116, 18434), (129, 18476), (155, 18554), (167, 18602), (178, 18626), (182, 18644), (184, 18650),

Gene: LostAndPhound_24 Start: 18387, Stop: 18809, Start Num: 53

Candidate Starts for LostAndPhound_24:

(34, 18321), (Start: 53 @18387 has 213 MA's), (93, 18510), (95, 18516), (96, 18522), (116, 18585), (129, 18627), (142, 18678), (155, 18705), (167, 18753), (178, 18777), (182, 18795), (184, 18801),

Gene: Love_33 Start: 24151, Stop: 24585, Start Num: 62

Candidate Starts for Love_33:

(41, 24121), (Start: 62 @24151 has 90 MA's), (91, 24235), (107, 24310), (119, 24334), (137, 24412), (172, 24505), (188, 24556),

Gene: LuckyMarjie_24 Start: 18400, Stop: 18822, Start Num: 53

Candidate Starts for LuckyMarjie_24:

(34, 18334), (Start: 53 @18400 has 213 MA's), (93, 18523), (95, 18529), (96, 18535), (116, 18598), (129, 18640), (155, 18718), (167, 18766), (178, 18790), (182, 18808), (184, 18814),

Gene: Lulumae_24 Start: 18378, Stop: 18800, Start Num: 53

Candidate Starts for Lulumae_24:

(34, 18312), (Start: 53 @18378 has 213 MA's), (93, 18501), (95, 18507), (96, 18513), (116, 18576), (129, 18618), (155, 18696), (167, 18744), (178, 18768), (182, 18786), (184, 18792),

Gene: Lulwa_25 Start: 18665, Stop: 19087, Start Num: 53

Candidate Starts for Lulwa_25:

(34, 18599), (Start: 53 @18665 has 213 MA's), (93, 18788), (95, 18794), (96, 18800), (116, 18863), (129, 18905), (155, 18983), (167, 19031), (178, 19055), (182, 19073), (184, 19079),

Gene: Lumine_24 Start: 18374, Stop: 18796, Start Num: 53

Candidate Starts for Lumine_24:

(34, 18308), (Start: 53 @18374 has 213 MA's), (93, 18497), (95, 18503), (96, 18509), (116, 18572), (129, 18614), (155, 18692), (167, 18740), (178, 18764), (182, 18782), (184, 18788),

Gene: MRabcd_24 Start: 18379, Stop: 18801, Start Num: 53

Candidate Starts for MRabcd_24:

(34, 18313), (Start: 53 @18379 has 213 MA's), (93, 18502), (95, 18508), (96, 18514), (116, 18577), (129, 18619), (142, 18670), (155, 18697), (167, 18745), (178, 18769), (182, 18787), (184, 18793),

Gene: Mag7_24 Start: 18254, Stop: 18676, Start Num: 52

Candidate Starts for Mag7_24:

(Start: 52 @18254 has 55 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (116, 18452), (129, 18494), (155, 18572), (167, 18620), (178, 18644), (182, 18662), (184, 18668),

Gene: Magic8_25 Start: 18692, Stop: 19114, Start Num: 52

Candidate Starts for Magic8_25:

(Start: 52 @18692 has 55 MA's), (81, 18764), (93, 18815), (95, 18821), (96, 18827), (116, 18890), (129, 18932), (155, 19010), (167, 19058), (178, 19082), (182, 19100), (184, 19106),

Gene: Magpie_22 Start: 19156, Stop: 19569, Start Num: 58

Candidate Starts for Magpie_22:

(Start: 58 @19156 has 34 MA's), (93, 19270), (95, 19276), (96, 19282), (104, 19318), (120, 19357), (124, 19369), (129, 19387), (155, 19465), (175, 19534), (178, 19537), (184, 19561),

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

Candidate Starts for Maih_19:

(9, 18784), (26, 19066), (Start: 78 @19234 has 7 MA's), (85, 19249), (94, 19291), (104, 19336), (132, 19426), (140, 19456), (159, 19507), (162, 19522), (168, 19549), (170, 19552),

Gene: MakoManhole_24 Start: 18622, Stop: 19032, Start Num: 55

Candidate Starts for MakoManhole_24:

(Start: 55 @18622 has 20 MA's), (101, 18784), (106, 18796), (129, 18862), (131, 18886), (146, 18925), (155, 18940),

Gene: Mana_24 Start: 18381, Stop: 18803, Start Num: 53

Candidate Starts for Mana_24:

(34, 18315), (Start: 53 @18381 has 213 MA's), (93, 18504), (95, 18510), (96, 18516), (116, 18579), (129, 18621), (142, 18672), (155, 18699), (167, 18747), (178, 18771), (182, 18789), (184, 18795),

Gene: Manad_24 Start: 18231, Stop: 18653, Start Num: 53

Candidate Starts for Manad_24:

(34, 18165), (Start: 53 @18231 has 213 MA's), (93, 18354), (95, 18360), (96, 18366), (116, 18429), (129, 18471), (155, 18549), (167, 18597), (178, 18621), (182, 18639), (184, 18645),

Gene: Mao1_21 Start: 16621, Stop: 17025, Start Num: 57

Candidate Starts for Mao1_21:

(Start: 57 @16621 has 22 MA's), (86, 16699), (95, 16744), (96, 16750), (107, 16795), (116, 16816), (129, 16858), (131, 16882), (142, 16909), (147, 16921), (173, 16999),

Gene: Marcie_37 Start: 21635, Stop: 22030, Start Num: 47

Candidate Starts for Marcie_37:

(Start: 47 @21635 has 43 MA's), (68, 21677), (121, 21845), (157, 21935), (187, 22022),

Gene: Mareelih_94 Start: 51401, Stop: 51808, Start Num: 63

Candidate Starts for Mareelih_94:

(Start: 61 @51398 has 46 MA's), (Start: 63 @51401 has 6 MA's), (72, 51437), (89, 51491), (93, 51512), (124, 51614), (127, 51626), (133, 51668), (134, 51677), (142, 51704), (160, 51746), (167, 51779), (171, 51791), (174, 51800),

Gene: Mariokart_22 Start: 17119, Stop: 17532, Start Num: 55

Candidate Starts for Mariokart_22:

(1, 16399), (2, 16444), (3, 16510), (4, 16582), (7, 16648), (28, 17020), (Start: 45 @17098 has 1 MA's), (Start: 55 @17119 has 20 MA's), (86, 17200), (88, 17209), (95, 17245), (96, 17251), (109, 17299), (129, 17359),

Gene: Marley1013_26 Start: 20148, Stop: 20561, Start Num: 61

Candidate Starts for Marley1013_26:

(Start: 61 @20148 has 46 MA's), (95, 20268), (96, 20274), (109, 20322), (131, 20406), (175, 20532),

Gene: Marlia_26 Start: 19347, Stop: 19760, Start Num: 61

Candidate Starts for Marlia_26:

(Start: 61 @19347 has 46 MA's), (86, 19422), (95, 19467), (96, 19473), (109, 19521), (131, 19605), (175, 19731),

Gene: Maru_24 Start: 18380, Stop: 18802, Start Num: 53

Candidate Starts for Maru_24:

(34, 18314), (Start: 53 @18380 has 213 MA's), (93, 18503), (95, 18509), (96, 18515), (116, 18578), (129, 18620), (155, 18698), (167, 18746), (178, 18770), (182, 18788), (184, 18794),

Gene: Mashley_31 Start: 22162, Stop: 22575, Start Num: 47

Candidate Starts for Mashley_31:

(33, 22105), (Start: 47 @22162 has 43 MA's), (81, 22234), (99, 22321), (142, 22438), (148, 22453),

Gene: Mask_22 Start: 16622, Stop: 17026, Start Num: 57

Candidate Starts for Mask_22:

(Start: 57 @16622 has 22 MA's), (86, 16700), (95, 16745), (96, 16751), (107, 16796), (116, 16817), (129, 16859), (131, 16883), (142, 16910), (147, 16922), (173, 17000),

Gene: Maskar_24 Start: 18226, Stop: 18648, Start Num: 52

Candidate Starts for Maskar_24:

(Start: 52 @18226 has 55 MA's), (93, 18349), (95, 18355), (96, 18361), (116, 18424), (129, 18466), (155, 18544), (167, 18592), (178, 18616), (182, 18634), (184, 18640),

Gene: Matalotodo_25 Start: 18673, Stop: 19095, Start Num: 53

Candidate Starts for Matalotodo_25:

(34, 18607), (Start: 53 @18673 has 213 MA's), (93, 18796), (95, 18802), (96, 18808), (116, 18871), (129, 18913), (155, 18991), (167, 19039), (178, 19063), (182, 19081), (184, 19087),

Gene: McKinley_32 Start: 24183, Stop: 24617, Start Num: 62

Candidate Starts for McKinley_32:

(41, 24153), (Start: 62 @24183 has 90 MA's), (91, 24267), (107, 24342), (119, 24366), (137, 24444), (172, 24537), (188, 24588),

Gene: Mcshane_24 Start: 18376, Stop: 18798, Start Num: 53

Candidate Starts for Mcshane_24:

(34, 18310), (Start: 53 @18376 has 213 MA's), (93, 18499), (95, 18505), (96, 18511), (116, 18574), (129, 18616), (155, 18694), (167, 18742), (178, 18766), (182, 18784), (184, 18790),

Gene: Mecca_24 Start: 18373, Stop: 18795, Start Num: 53

Candidate Starts for Mecca_24:

(34, 18307), (Start: 53 @18373 has 213 MA's), (93, 18496), (95, 18502), (96, 18508), (116, 18571), (129, 18613), (155, 18691), (167, 18739), (178, 18763), (182, 18781), (184, 18787),

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

Candidate Starts for Megabear_19:

(Start: 58 @18137 has 34 MA's), (86, 18212), (95, 18257), (96, 18263), (106, 18305), (116, 18329), (123, 18350), (153, 18452), (167, 18497),

Gene: Megamind20_25 Start: 18394, Stop: 18816, Start Num: 53

Candidate Starts for Megamind20_25:

(34, 18328), (Start: 53 @18394 has 213 MA's), (93, 18517), (95, 18523), (96, 18529), (116, 18592), (129, 18634), (155, 18712), (167, 18760), (178, 18784), (182, 18802), (184, 18808),

Gene: Megatron_25 Start: 18677, Stop: 19099, Start Num: 53

Candidate Starts for Megatron_25:

(34, 18611), (Start: 53 @18677 has 213 MA's), (93, 18800), (95, 18806), (96, 18812), (116, 18875), (129, 18917), (142, 18968), (155, 18995), (167, 19043), (178, 19067), (182, 19085), (184, 19091),

Gene: MelBins_29 Start: 21614, Stop: 22045, Start Num: 62

Candidate Starts for MelBins_29:

(17, 21422), (43, 21587), (Start: 62 @21614 has 90 MA's), (91, 21698), (118, 21794), (137, 21875), (139, 21881), (142, 21893), (166, 21953), (177, 21977), (187, 22016), (188, 22019),

Gene: Melc17_25 Start: 18668, Stop: 19090, Start Num: 52

Candidate Starts for Melc17_25:

(Start: 52 @18668 has 55 MA's), (93, 18791), (95, 18797), (96, 18803), (116, 18866), (129, 18908), (155, 18986), (167, 19034), (178, 19058), (182, 19076), (184, 19082),

Gene: MelsMeow_24 Start: 18254, Stop: 18676, Start Num: 52

Candidate Starts for MelsMeow_24:

(Start: 52 @18254 has 55 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (116, 18452), (129, 18494), (155, 18572), (167, 18620), (178, 18644), (182, 18662), (184, 18668),

Gene: Mentos_38 Start: 23249, Stop: 23662, Start Num: 47

Candidate Starts for Mentos_38:

(33, 23192), (Start: 47 @23249 has 43 MA's), (99, 23408), (142, 23525), (148, 23540),

Gene: Mesh1_25 Start: 18685, Stop: 19107, Start Num: 53

Candidate Starts for Mesh1_25:

(34, 18619), (Start: 53 @18685 has 213 MA's), (93, 18808), (95, 18814), (96, 18820), (116, 18883), (129, 18925), (155, 19003), (167, 19051), (178, 19075), (182, 19093), (184, 19099),

Gene: Mesmerelda_25 Start: 18379, Stop: 18801, Start Num: 53

Candidate Starts for Mesmerelda_25:

(34, 18313), (Start: 53 @18379 has 213 MA's), (93, 18502), (95, 18508), (96, 18514), (116, 18577), (129, 18619), (155, 18697), (167, 18745), (178, 18769), (182, 18787), (184, 18793),

Gene: MichaelPhcott_24 Start: 18254, Stop: 18676, Start Num: 52

Candidate Starts for MichaelPhcott_24:

(Start: 52 @18254 has 55 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (116, 18452), (129, 18494), (155, 18572), (167, 18620), (178, 18644), (182, 18662), (184, 18668),

Gene: Mikota_25 Start: 18661, Stop: 19083, Start Num: 53

Candidate Starts for Mikota_25:

(34, 18595), (Start: 53 @18661 has 213 MA's), (93, 18784), (95, 18790), (96, 18796), (116, 18859), (129, 18901), (155, 18979), (167, 19027), (178, 19051), (182, 19069), (184, 19075),

Gene: Mimi_87 Start: 52768, Stop: 53151, Start Num: 61

Candidate Starts for Mimi_87:

(Start: 61 @52768 has 46 MA's), (72, 52807), (74, 52810), (97, 52909), (105, 52933), (124, 52984), (126, 52993), (142, 53047), (155, 53074), (159, 53086),

Gene: MiniBoss_25 Start: 18664, Stop: 19086, Start Num: 53

Candidate Starts for MiniBoss_25:

(34, 18598), (Start: 53 @18664 has 213 MA's), (93, 18787), (95, 18793), (96, 18799), (116, 18862), (129, 18904), (155, 18982), (167, 19030), (178, 19054), (182, 19072), (184, 19078),

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

Candidate Starts for Mischief19_27:

(Start: 80 @29157 has 4 MA's), (104, 29256), (128, 29316), (132, 29346), (138, 29370),

Gene: MitKao_25 Start: 18382, Stop: 18804, Start Num: 53

Candidate Starts for MitKao_25:

(34, 18316), (Start: 53 @18382 has 213 MA's), (93, 18505), (95, 18511), (96, 18517), (116, 18580), (129, 18622), (155, 18700), (167, 18748), (178, 18772), (182, 18790), (184, 18796),

Gene: Mithril_23 Start: 19337, Stop: 19750, Start Num: 58

Candidate Starts for Mithril_23:

(Start: 58 @19337 has 34 MA's), (93, 19451), (95, 19457), (96, 19463), (104, 19499), (120, 19538), (124, 19550), (129, 19568), (155, 19646), (175, 19715), (178, 19718), (184, 19742),

Gene: MmasiCarm_26 Start: 19358, Stop: 19771, Start Num: 61

Candidate Starts for MmasiCarm_26:

(Start: 61 @19358 has 46 MA's), (95, 19478), (96, 19484), (109, 19532), (131, 19616), (175, 19742),

Gene: MoontowerMania_29 Start: 22994, Stop: 23428, Start Num: 62

Candidate Starts for MoontowerMania_29:

(21, 22829), (41, 22964), (Start: 62 @22994 has 90 MA's), (91, 23078), (107, 23153), (137, 23255), (143, 23276), (172, 23348), (188, 23399),

Gene: Morgushi_25 Start: 18387, Stop: 18809, Start Num: 53

Candidate Starts for Morgushi_25:

(34, 18321), (Start: 53 @18387 has 213 MA's), (93, 18510), (95, 18516), (96, 18522), (116, 18585), (129, 18627), (155, 18705), (167, 18753), (178, 18777), (182, 18795), (184, 18801),

Gene: MorillMayhem_32 Start: 22160, Stop: 22564, Start Num: 47

Candidate Starts for MorillMayhem_32:

(33, 22103), (Start: 47 @22160 has 43 MA's), (67, 22196), (123, 22370), (129, 22391), (144, 22436), (148, 22445), (187, 22550), (189, 22559),

Gene: Mortcellus_25 Start: 20001, Stop: 20414, Start Num: 61

Candidate Starts for Mortcellus_25:

(Start: 61 @20001 has 46 MA's), (95, 20121), (96, 20127), (109, 20175), (131, 20259), (175, 20385),

Gene: Morty_25 Start: 18686, Stop: 19108, Start Num: 53

Candidate Starts for Morty_25:

(34, 18620), (Start: 53 @18686 has 213 MA's), (93, 18809), (95, 18815), (96, 18821), (116, 18884), (129, 18926), (142, 18977), (155, 19004), (167, 19052), (178, 19076), (182, 19094), (184, 19100),

Gene: Morty007_26 Start: 20148, Stop: 20561, Start Num: 61

Candidate Starts for Morty007_26:

(Start: 61 @20148 has 46 MA's), (95, 20268), (96, 20274), (109, 20322), (131, 20406), (175, 20532),

Gene: Mosaic_24 Start: 18388, Stop: 18810, Start Num: 53

Candidate Starts for Mosaic_24:

(34, 18322), (Start: 53 @18388 has 213 MA's), (93, 18511), (95, 18517), (96, 18523), (116, 18586), (129, 18628), (155, 18706), (167, 18754), (178, 18778), (182, 18796), (184, 18802),

Gene: MossRose_24 Start: 18601, Stop: 19011, Start Num: 55

Candidate Starts for MossRose_24:

(Start: 55 @18601 has 20 MA's), (101, 18763), (106, 18775), (129, 18841), (131, 18865), (146, 18904), (155, 18919), (178, 18991),

Gene: MrPhizzler_24 Start: 18387, Stop: 18809, Start Num: 52

Candidate Starts for MrPhizzler_24:

(Start: 52 @18387 has 55 MA's), (93, 18510), (95, 18516), (96, 18522), (116, 18585), (129, 18627), (155, 18705), (167, 18753), (178, 18777), (182, 18795), (184, 18801),

Gene: Mudslide_23 Start: 19584, Stop: 19997, Start Num: 58

Candidate Starts for Mudslide_23:

(Start: 58 @19584 has 34 MA's), (93, 19698), (95, 19704), (96, 19710), (104, 19746), (120, 19785), (124, 19797), (129, 19815), (155, 19893), (160, 19908), (175, 19962), (178, 19965), (184, 19989),

Gene: Mulan_24 Start: 18382, Stop: 18804, Start Num: 53

Candidate Starts for Mulan_24:

(34, 18316), (Start: 53 @18382 has 213 MA's), (93, 18505), (95, 18511), (96, 18517), (116, 18580), (129, 18622), (155, 18700), (167, 18748), (178, 18772), (182, 18790), (184, 18796),

Gene: Murdoc_25 Start: 18675, Stop: 19097, Start Num: 53

Candidate Starts for Murdoc_25:

(34, 18609), (Start: 53 @18675 has 213 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: Mutante_24 Start: 18385, Stop: 18807, Start Num: 53

Candidate Starts for Mutante_24:

(34, 18319), (Start: 53 @18385 has 213 MA's), (93, 18508), (95, 18514), (96, 18520), (116, 18583), (129, 18625), (155, 18703), (167, 18751), (178, 18775), (182, 18793), (184, 18799),

Gene: Mutzi_28 Start: 18027, Stop: 18470, Start Num: 62

Candidate Starts for Mutzi_28:

(14, 17811), (Start: 62 @18027 has 90 MA's), (188, 18444),

Gene: Mysterious_26 Start: 19640, Stop: 20056, Start Num: 57

Candidate Starts for Mysterious_26:

(Start: 57 @19640 has 22 MA's), (77, 19700), (95, 19763), (96, 19769), (129, 19874), (135, 19904), (155, 19952),

Gene: Nacho_0025 Start: 18674, Stop: 19096, Start Num: 53

Candidate Starts for Nacho_0025:

(34, 18608), (Start: 53 @18674 has 213 MA's), (93, 18797), (95, 18803), (96, 18809), (116, 18872), (129, 18914), (155, 18992), (167, 19040), (178, 19064), (182, 19082), (184, 19088),

Gene: Namago_33 Start: 21729, Stop: 22142, Start Num: 47

Candidate Starts for Namago_33:

(33, 21672), (Start: 47 @21729 has 43 MA's), (99, 21888), (142, 22005), (148, 22020),

Gene: Nanao_22 Start: 18303, Stop: 18716, Start Num: 58

Candidate Starts for Nanao_22:

(Start: 58 @18303 has 34 MA's), (93, 18417), (95, 18423), (96, 18429), (104, 18465), (116, 18492), (120, 18504), (124, 18516), (129, 18534), (155, 18612), (175, 18681), (184, 18708),

Gene: Nangang_25 Start: 19342, Stop: 19758, Start Num: 57

Candidate Starts for Nangang_25:

(Start: 57 @19342 has 22 MA's), (116, 19534), (129, 19576), (142, 19627), (185, 19753),

Gene: Nathan_26 Start: 18704, Stop: 19126, Start Num: 52

Candidate Starts for Nathan_26:

(Start: 52 @18704 has 55 MA's), (81, 18776), (93, 18827), (95, 18833), (96, 18839), (116, 18902), (129, 18944), (155, 19022), (167, 19070), (178, 19094), (182, 19112), (184, 19118),

Gene: Natkenzie_30 Start: 22964, Stop: 23395, Start Num: 62

Candidate Starts for Natkenzie_30:

(35, 22904), (43, 22937), (Start: 62 @22964 has 90 MA's), (97, 23093), (107, 23123), (137, 23225), (139, 23231), (143, 23246), (166, 23303), (172, 23318), (187, 23366), (188, 23369),

Gene: Nehemiah_24 Start: 19640, Stop: 20056, Start Num: 57

Candidate Starts for Nehemiah_24:

(Start: 57 @19640 has 22 MA's), (77, 19700), (95, 19763), (96, 19769), (129, 19874), (135, 19904), (155, 19952),

Gene: Neos5_26 Start: 20155, Stop: 20568, Start Num: 61

Candidate Starts for Neos5_26:

(Start: 61 @20155 has 46 MA's), (86, 20230), (95, 20275), (96, 20281), (131, 20413), (175, 20539),

Gene: Newman_25 Start: 18674, Stop: 19096, Start Num: 53

Candidate Starts for Newman_25:

(34, 18608), (Start: 53 @18674 has 213 MA's), (93, 18797), (95, 18803), (96, 18809), (116, 18872), (129, 18914), (155, 18992), (167, 19040), (178, 19064), (182, 19082), (184, 19088),

Gene: Nicole21_25 Start: 18666, Stop: 19088, Start Num: 53

Candidate Starts for Nicole21_25:

(34, 18600), (Start: 53 @18666 has 213 MA's), (93, 18789), (95, 18795), (96, 18801), (116, 18864), (129, 18906), (155, 18984), (167, 19032), (178, 19056), (182, 19074), (184, 19080),

Gene: Nigel_21 Start: 18187, Stop: 18600, Start Num: 58

Candidate Starts for Nigel_21:

(Start: 58 @18187 has 34 MA's), (96, 18313), (116, 18376), (120, 18388), (129, 18418), (184, 18592),

Gene: Nike_33 Start: 22681, Stop: 23094, Start Num: 47

Candidate Starts for Nike_33:

(33, 22624), (Start: 47 @22681 has 43 MA's), (99, 22840), (142, 22957), (148, 22972),

Gene: Nordenberg_24 Start: 22353, Stop: 22787, Start Num: 62

Candidate Starts for Nordenberg_24:

(41, 22323), (Start: 62 @22353 has 90 MA's), (91, 22437), (107, 22512), (119, 22536), (137, 22614), (172, 22707), (188, 22758),

Gene: Nozo_26 Start: 20125, Stop: 20538, Start Num: 61

Candidate Starts for Nozo_26:

(Start: 61 @20125 has 46 MA's), (86, 20200), (95, 20245), (96, 20251), (131, 20383), (175, 20509),

Gene: Nubi_26 Start: 17592, Stop: 18035, Start Num: 62

Candidate Starts for Nubi_26:

(Start: 62 @17592 has 90 MA's), (137, 17853), (188, 18009),

Gene: Numberten_25 Start: 18679, Stop: 19101, Start Num: 53

Candidate Starts for Numberten_25:

(34, 18613), (Start: 53 @18679 has 213 MA's), (93, 18802), (95, 18808), (96, 18814), (116, 18877), (129, 18919), (155, 18997), (167, 19045), (178, 19069), (182, 19087), (184, 19093),

Gene: Nyala_24 Start: 18377, Stop: 18799, Start Num: 53

Candidate Starts for Nyala_24:

(34, 18311), (Start: 53 @18377 has 213 MA's), (93, 18500), (95, 18506), (96, 18512), (116, 18575), (129, 18617), (155, 18695), (167, 18743), (178, 18767), (182, 18785), (184, 18791),

Gene: OSmaximus_25 Start: 18703, Stop: 19125, Start Num: 52

Candidate Starts for OSmaximus_25:

(Start: 52 @18703 has 55 MA's), (81, 18775), (93, 18826), (95, 18832), (96, 18838), (116, 18901), (129, 18943), (155, 19021), (167, 19069), (178, 19093), (182, 19111), (184, 19117),

Gene: Obutu_26 Start: 19358, Stop: 19771, Start Num: 61

Candidate Starts for Obutu_26:

(Start: 61 @19358 has 46 MA's), (86, 19433), (95, 19478), (96, 19484), (131, 19616), (175, 19742),

Gene: Olak_24 Start: 18378, Stop: 18800, Start Num: 53

Candidate Starts for Olak_24:

(34, 18312), (Start: 53 @18378 has 213 MA's), (93, 18501), (95, 18507), (96, 18513), (116, 18576), (129, 18618), (155, 18696), (167, 18744), (178, 18768), (182, 18786), (184, 18792),

Gene: Oline_24 Start: 18240, Stop: 18662, Start Num: 52

Candidate Starts for Oline_24:

(Start: 52 @18240 has 55 MA's), (93, 18363), (95, 18369), (96, 18375), (116, 18438), (129, 18480), (155, 18558), (167, 18606), (178, 18630), (182, 18648), (184, 18654),

Gene: Olive_25 Start: 18667, Stop: 19089, Start Num: 53

Candidate Starts for Olive_25:

(34, 18601), (Start: 53 @18667 has 213 MA's), (93, 18790), (95, 18796), (96, 18802), (116, 18865), (129, 18907), (155, 18985), (167, 19033), (178, 19057), (182, 19075), (184, 19081),

Gene: OliverWalter_25 Start: 18683, Stop: 19105, Start Num: 53

Candidate Starts for OliverWalter_25:

(34, 18617), (Start: 53 @18683 has 213 MA's), (93, 18806), (95, 18812), (96, 18818), (116, 18881), (129, 18923), (155, 19001), (167, 19049), (178, 19073), (182, 19091), (184, 19097),

Gene: Olivio_25 Start: 19212, Stop: 19625, Start Num: 61

Candidate Starts for Olivio_25:

(Start: 61 @19212 has 46 MA's), (86, 19287), (95, 19332), (96, 19338), (131, 19470), (175, 19596),

Gene: Omniscient_25 Start: 18686, Stop: 19108, Start Num: 53

Candidate Starts for Omniscient_25:

(34, 18620), (Start: 53 @18686 has 213 MA's), (93, 18809), (95, 18815), (96, 18821), (116, 18884), (129, 18926), (155, 19004), (167, 19052), (178, 19076), (182, 19094), (184, 19100),

Gene: OneinaGillian_32 Start: 20626, Stop: 21021, Start Num: 47

Candidate Starts for OneinaGillian_32:

(Start: 47 @20626 has 43 MA's), (73, 20677), (99, 20785), (129, 20860), (157, 20926), (187, 21013),

Gene: Oosterbaan_25 Start: 18678, Stop: 19100, Start Num: 53

Candidate Starts for Oosterbaan_25:

(34, 18612), (Start: 53 @18678 has 213 MA's), (93, 18801), (95, 18807), (96, 18813), (116, 18876), (129, 18918), (142, 18969), (155, 18996), (167, 19044), (178, 19068), (182, 19086), (184, 19092),

Gene: OrangeOswald_26 Start: 19363, Stop: 19776, Start Num: 61

Candidate Starts for OrangeOswald_26:

(Start: 61 @19363 has 46 MA's), (86, 19438), (95, 19483), (96, 19489), (131, 19621), (175, 19747),

Gene: Orfeu_24 Start: 18379, Stop: 18801, Start Num: 53

Candidate Starts for Orfeu_24:

(34, 18313), (Start: 53 @18379 has 213 MA's), (93, 18502), (95, 18508), (96, 18514), (116, 18577), (129, 18619), (155, 18697), (167, 18745), (178, 18769), (182, 18787), (184, 18793),

Gene: Orion_25 Start: 18675, Stop: 19097, Start Num: 53

Candidate Starts for Orion_25:

(34, 18609), (Start: 53 @18675 has 213 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (142, 18966), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: Orwigg_24 Start: 18372, Stop: 18794, Start Num: 53

Candidate Starts for Orwigg_24:

(34, 18306), (Start: 53 @18372 has 213 MA's), (93, 18495), (95, 18501), (96, 18507), (116, 18570), (129, 18612), (155, 18690), (167, 18738), (178, 18762), (182, 18780), (184, 18786),

Gene: PG1_25 Start: 18688, Stop: 19110, Start Num: 53

Candidate Starts for PG1_25:

(34, 18622), (Start: 53 @18688 has 213 MA's), (93, 18811), (95, 18817), (96, 18823), (116, 18886), (129, 18928), (142, 18979), (155, 19006), (167, 19054), (178, 19078), (182, 19096), (184, 19102),

Gene: PR_19 Start: 18164, Stop: 18574, Start Num: 58

Candidate Starts for PR_19:

(Start: 58 @18164 has 34 MA's), (86, 18239), (95, 18284), (96, 18290), (106, 18332), (116, 18356), (123, 18377), (153, 18479), (167, 18524),

Gene: Pacifista_24 Start: 18379, Stop: 18801, Start Num: 53

Candidate Starts for Pacifista_24:

(34, 18313), (Start: 53 @18379 has 213 MA's), (93, 18502), (95, 18508), (96, 18514), (116, 18577), (129, 18619), (155, 18697), (167, 18745), (178, 18769), (182, 18787), (184, 18793),

Gene: Panchaali_85 Start: 49870, Stop: 50250, Start Num: 63

Candidate Starts for Panchaali_85:

(Start: 63 @49870 has 6 MA's), (66, 49879), (72, 49906), (74, 49909), (117, 50062), (126, 50092), (160, 50188),

Gene: Paries_32 Start: 23819, Stop: 24253, Start Num: 62

Candidate Starts for Paries_32:

(41, 23780), (Start: 62 @23819 has 90 MA's), (91, 23903), (107, 23978), (119, 24002), (137, 24080), (143, 24101), (172, 24173), (188, 24224),

Gene: Patbob_88 Start: 53640, Stop: 54023, Start Num: 61

Candidate Starts for Patbob_88:

(Start: 61 @53640 has 46 MA's), (72, 53679), (97, 53781), (105, 53805), (113, 53826), (124, 53856), (126, 53865), (142, 53919), (155, 53946), (159, 53958),

Gene: PauloDiaboli_94 Start: 50046, Stop: 50456, Start Num: 46

Candidate Starts for PauloDiaboli_94:

(Start: 46 @50046 has 2 MA's), (81, 50133), (82, 50136), (91, 50166), (155, 50376), (161, 50394),

Gene: PenguinLover67_27 Start: 20904, Stop: 21338, Start Num: 55

Candidate Starts for PenguinLover67_27:

(Start: 55 @20904 has 20 MA's), (79, 20970), (88, 20994), (95, 21030), (96, 21036), (104, 21072), (116, 21099), (175, 21288),

Gene: Pepe25_31 Start: 20844, Stop: 21239, Start Num: 47

Candidate Starts for Pepe25_31:

(Start: 47 @20844 has 43 MA's), (68, 20886), (73, 20895), (99, 21003), (157, 21144), (183, 21213), (187, 21231),

Gene: Phabia_33 Start: 22063, Stop: 22467, Start Num: 47

Candidate Starts for Phabia_33:

(33, 22006), (Start: 47 @22063 has 43 MA's), (67, 22099), (123, 22273), (129, 22294), (144, 22339), (148, 22348), (187, 22453), (189, 22462),

Gene: Phamished_25 Start: 18683, Stop: 19105, Start Num: 53

Candidate Starts for Phamished_25:

(34, 18617), (Start: 53 @18683 has 213 MA's), (93, 18806), (95, 18812), (96, 18818), (116, 18881), (129, 18923), (155, 19001), (167, 19049), (178, 19073), (182, 19091), (184, 19097),

Gene: Phareon_25 Start: 18383, Stop: 18805, Start Num: 53

Candidate Starts for Phareon_25:

(34, 18317), (Start: 53 @18383 has 213 MA's), (93, 18506), (95, 18512), (96, 18518), (116, 18581), (129, 18623), (155, 18701), (167, 18749), (178, 18773), (182, 18791), (184, 18797),

Gene: PhatCats2014_25 Start: 18693, Stop: 19115, Start Num: 53

Candidate Starts for PhatCats2014_25:

(34, 18627), (Start: 53 @18693 has 213 MA's), (93, 18816), (95, 18822), (96, 18828), (116, 18891), (129, 18933), (155, 19011), (167, 19059), (178, 19083), (182, 19101), (184, 19107),

Gene: PhatLouie_25 Start: 18675, Stop: 19097, Start Num: 52

Candidate Starts for PhatLouie_25:

(Start: 52 @18675 has 55 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: Phauci_21 Start: 17995, Stop: 18426, Start Num: 62

Candidate Starts for Phauci_21:

(17, 17803), (43, 17968), (Start: 62 @17995 has 90 MA's), (91, 18079), (118, 18175), (137, 18256), (139, 18262), (142, 18274), (166, 18334), (177, 18358), (187, 18397), (188, 18400),

Gene: Phayeta_26 Start: 19239, Stop: 19652, Start Num: 61

Candidate Starts for Phayeta_26:

(Start: 61 @19239 has 46 MA's), (86, 19314), (95, 19359), (96, 19365), (131, 19497), (175, 19623),

Gene: Phelemich_25 Start: 19636, Stop: 20052, Start Num: 57

Candidate Starts for Phelemich_25:

(Start: 57 @19636 has 22 MA's), (77, 19696), (95, 19759), (96, 19765), (129, 19870), (135, 19900), (155, 19948), (185, 20047),

Gene: Phendrix_82 Start: 43488, Stop: 43901, Start Num: 47

Candidate Starts for Phendrix_82:

(Start: 47 @43488 has 43 MA's), (65, 43521), (92, 43614), (96, 43638), (103, 43671), (112, 43698), (114, 43701), (136, 43773), (142, 43794), (159, 43833), (176, 43893),

Gene: PhenghisKhan_24 Start: 18254, Stop: 18676, Start Num: 52

Candidate Starts for PhenghisKhan_24:

(Start: 52 @18254 has 55 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (116, 18452), (129, 18494), (155, 18572), (167, 18620), (178, 18644), (182, 18662), (184, 18668),

Gene: Pherdinand_25 Start: 18683, Stop: 19105, Start Num: 53

Candidate Starts for Pherdinand_25:

(34, 18617), (Start: 53 @18683 has 213 MA's), (93, 18806), (95, 18812), (96, 18818), (116, 18881), (129, 18923), (155, 19001), (167, 19049), (178, 19073), (182, 19091), (184, 19097),

Gene: Phergie_24 Start: 18248, Stop: 18670, Start Num: 52

Candidate Starts for Phergie_24:

(Start: 52 @18248 has 55 MA's), (81, 18320), (93, 18371), (95, 18377), (96, 18383), (116, 18446), (129, 18488), (155, 18566), (167, 18614), (178, 18638), (182, 18656), (184, 18662),

Gene: Philly_25 Start: 19229, Stop: 19642, Start Num: 61
Candidate Starts for Philly_25:
(Start: 61 @19229 has 46 MA's), (86, 19304), (95, 19349), (96, 19355), (131, 19487), (175, 19613),

Gene: Phinally_28 Start: 21403, Stop: 21834, Start Num: 62
Candidate Starts for Phinally_28:
(13, 21175), (17, 21211), (43, 21376), (Start: 47 @21379 has 43 MA's), (Start: 62 @21403 has 90 MA's), (91, 21487), (118, 21583), (137, 21664), (139, 21670), (142, 21682), (166, 21742), (177, 21766), (187, 21805), (188, 21808),

Gene: Phinky_39 Start: 23231, Stop: 23650, Start Num: 47
Candidate Starts for Phinky_39:
(37, 23201), (Start: 47 @23231 has 43 MA's), (67, 23267), (69, 23276), (92, 23342), (129, 23465), (148, 23522), (189, 23645),

Gene: Phipps_25 Start: 18653, Stop: 19075, Start Num: 53
Candidate Starts for Phipps_25:
(34, 18587), (Start: 53 @18653 has 213 MA's), (93, 18776), (95, 18782), (96, 18788), (116, 18851), (129, 18893), (155, 18971), (167, 19019), (178, 19043), (182, 19061), (184, 19067),

Gene: Phleuron_24 Start: 18254, Stop: 18676, Start Num: 52
Candidate Starts for Phleuron_24:
(Start: 52 @18254 has 55 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (116, 18452), (129, 18494), (155, 18572), (167, 18620), (178, 18644), (182, 18662), (184, 18668),

Gene: Phlop_26 Start: 17656, Stop: 18099, Start Num: 62
Candidate Starts for Phlop_26:
(Start: 62 @17656 has 90 MA's), (137, 17917), (188, 18073),

Gene: Phlyer_26 Start: 20098, Stop: 20511, Start Num: 61
Candidate Starts for Phlyer_26:
(Start: 61 @20098 has 46 MA's), (95, 20218), (96, 20224), (109, 20272), (131, 20356), (175, 20482),

Gene: Phrampa_81 Start: 50368, Stop: 50751, Start Num: 61
Candidate Starts for Phrampa_81:
(Start: 61 @50368 has 46 MA's), (72, 50407), (95, 50488), (97, 50509), (105, 50533), (125, 50590), (126, 50593), (142, 50647), (155, 50674),

Gene: PhrankReynolds_24 Start: 18254, Stop: 18676, Start Num: 52
Candidate Starts for PhrankReynolds_24:
(Start: 52 @18254 has 55 MA's), (81, 18326), (93, 18377), (95, 18383), (96, 18389), (116, 18452), (129, 18494), (155, 18572), (167, 18620), (178, 18644), (182, 18662), (184, 18668),

Gene: PhrodoBaggins_24 Start: 18671, Stop: 19093, Start Num: 53
Candidate Starts for PhrodoBaggins_24:
(34, 18605), (Start: 53 @18671 has 213 MA's), (93, 18794), (95, 18800), (96, 18806), (116, 18869), (129, 18911), (155, 18989), (167, 19037), (178, 19061), (182, 19079), (184, 19085),

Gene: Phunky_25 Start: 18677, Stop: 19099, Start Num: 53
Candidate Starts for Phunky_25:
(34, 18611), (Start: 53 @18677 has 213 MA's), (93, 18800), (95, 18806), (96, 18812), (116, 18875), (129, 18917), (155, 18995), (167, 19043), (178, 19067), (182, 19085), (184, 19091),

Gene: Piglet_0024 Start: 18677, Stop: 19099, Start Num: 53

Candidate Starts for Piglet_0024:

(34, 18611), (Start: 53 @18677 has 213 MA's), (93, 18800), (95, 18806), (96, 18812), (116, 18875), (129, 18917), (155, 18995), (167, 19043), (178, 19067), (182, 19085), (184, 19091),

Gene: Pine5_25 Start: 19604, Stop: 20017, Start Num: 54

Candidate Starts for Pine5_25:

(54, 19604), (56, 19607), (93, 19727), (116, 19805), (179, 20009),

Gene: PinheadLarry_25 Start: 18394, Stop: 18816, Start Num: 53

Candidate Starts for PinheadLarry_25:

(34, 18328), (Start: 53 @18394 has 213 MA's), (93, 18517), (95, 18523), (96, 18529), (116, 18592), (129, 18634), (155, 18712), (167, 18760), (178, 18784), (182, 18802), (184, 18808),

Gene: PinkCoffee_28 Start: 18295, Stop: 18738, Start Num: 62

Candidate Starts for PinkCoffee_28:

(Start: 62 @18295 has 90 MA's), (137, 18556), (188, 18712),

Gene: Pinkman_24 Start: 18234, Stop: 18656, Start Num: 52

Candidate Starts for Pinkman_24:

(Start: 52 @18234 has 55 MA's), (93, 18357), (95, 18363), (96, 18369), (116, 18432), (129, 18474), (155, 18552), (167, 18600), (178, 18624), (182, 18642), (184, 18648),

Gene: Pipefish_26 Start: 20248, Stop: 20661, Start Num: 61

Candidate Starts for Pipefish_26:

(Start: 61 @20248 has 46 MA's), (95, 20368), (96, 20374), (109, 20422), (131, 20506), (175, 20632),

Gene: Pipsqueak_25 Start: 18683, Stop: 19105, Start Num: 53

Candidate Starts for Pipsqueak_25:

(34, 18617), (Start: 53 @18683 has 213 MA's), (93, 18806), (95, 18812), (96, 18818), (116, 18881), (129, 18923), (142, 18974), (155, 19001), (167, 19049), (178, 19073), (182, 19091), (184, 19097),

Gene: Placalicious_24 Start: 18376, Stop: 18798, Start Num: 53

Candidate Starts for Placalicious_24:

(34, 18310), (Start: 53 @18376 has 213 MA's), (93, 18499), (95, 18505), (96, 18511), (116, 18574), (129, 18616), (142, 18667), (155, 18694), (167, 18742), (178, 18766), (182, 18784), (184, 18790),

Gene: Plata_25 Start: 18390, Stop: 18812, Start Num: 52

Candidate Starts for Plata_25:

(Start: 52 @18390 has 55 MA's), (93, 18513), (95, 18519), (96, 18525), (116, 18588), (129, 18630), (155, 18708), (167, 18756), (178, 18780), (182, 18798), (184, 18804),

Gene: Plmatters_25 Start: 18680, Stop: 19102, Start Num: 53

Candidate Starts for Plmatters_25:

(34, 18614), (Start: 53 @18680 has 213 MA's), (93, 18803), (95, 18809), (96, 18815), (116, 18878), (129, 18920), (155, 18998), (167, 19046), (178, 19070), (182, 19088), (184, 19094),

Gene: Podrick_25 Start: 18672, Stop: 19094, Start Num: 53

Candidate Starts for Podrick_25:

(34, 18606), (Start: 53 @18672 has 213 MA's), (93, 18795), (95, 18801), (96, 18807), (116, 18870), (129, 18912), (155, 18990), (167, 19038), (178, 19062), (182, 19080), (184, 19086),

Gene: Pops_25 Start: 18680, Stop: 19102, Start Num: 53

Candidate Starts for Pops_25:

(34, 18614), (Start: 53 @18680 has 213 MA's), (93, 18803), (95, 18809), (96, 18815), (116, 18878), (129, 18920), (155, 18998), (167, 19046), (178, 19070), (182, 19088), (184, 19094),

Gene: Portcullis_26 Start: 17599, Stop: 18042, Start Num: 62

Candidate Starts for Portcullis_26:

(Start: 62 @17599 has 90 MA's), (137, 17860), (188, 18016),

Gene: Poster_22 Start: 18304, Stop: 18717, Start Num: 58

Candidate Starts for Poster_22:

(Start: 58 @18304 has 34 MA's), (93, 18418), (95, 18424), (96, 18430), (104, 18466), (116, 18493), (120, 18505), (124, 18517), (129, 18535), (155, 18613), (175, 18682), (184, 18709),

Gene: Potter_24 Start: 18390, Stop: 18812, Start Num: 53

Candidate Starts for Potter_24:

(34, 18324), (Start: 53 @18390 has 213 MA's), (93, 18513), (95, 18519), (96, 18525), (116, 18588), (129, 18630), (142, 18681), (155, 18708), (167, 18756), (178, 18780), (182, 18798), (184, 18804),

Gene: Prickles_25 Start: 18669, Stop: 19091, Start Num: 53

Candidate Starts for Prickles_25:

(34, 18603), (Start: 53 @18669 has 213 MA's), (93, 18792), (95, 18798), (96, 18804), (116, 18867), (129, 18909), (155, 18987), (167, 19035), (178, 19059), (182, 19077), (184, 19083),

Gene: Prince_23 Start: 19496, Stop: 19909, Start Num: 58

Candidate Starts for Prince_23:

(Start: 58 @19496 has 34 MA's), (93, 19610), (95, 19616), (96, 19622), (104, 19658), (120, 19697), (124, 19709), (129, 19727), (155, 19805), (160, 19820), (175, 19874), (178, 19877), (184, 19901),

Gene: ProfessorX_25 Start: 18667, Stop: 19089, Start Num: 53

Candidate Starts for ProfessorX_25:

(34, 18601), (Start: 53 @18667 has 213 MA's), (93, 18790), (95, 18796), (96, 18802), (116, 18865), (129, 18907), (155, 18985), (167, 19033), (178, 19057), (182, 19075), (184, 19081),

Gene: Puhltonio_25 Start: 18683, Stop: 19105, Start Num: 53

Candidate Starts for Puhltonio_25:

(34, 18617), (Start: 53 @18683 has 213 MA's), (93, 18806), (95, 18812), (96, 18818), (116, 18881), (129, 18923), (155, 19001), (167, 19049), (178, 19073), (182, 19091), (184, 19097),

Gene: PullumCavea_26 Start: 17656, Stop: 18099, Start Num: 62

Candidate Starts for PullumCavea_26:

(Start: 62 @17656 has 90 MA's), (137, 17917), (188, 18073),

Gene: Pumpernickel_91 Start: 51418, Stop: 51831, Start Num: 44

Candidate Starts for Pumpernickel_91:

(Start: 44 @51418 has 1 MA's), (81, 51508), (91, 51541), (95, 51565), (97, 51586), (126, 51670), (153, 51748), (160, 51766), (161, 51769),

Gene: Quammi_31 Start: 21635, Stop: 22048, Start Num: 47

Candidate Starts for Quammi_31:

(33, 21578), (Start: 47 @21635 has 43 MA's), (67, 21671), (99, 21794), (142, 21911), (148, 21926),

Gene: QueenBeane_25 Start: 18675, Stop: 19097, Start Num: 53

Candidate Starts for QueenBeane_25:

(34, 18609), (Start: 53 @18675 has 213 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: QueenPie_22 Start: 19500, Stop: 19913, Start Num: 58

Candidate Starts for QueenPie_22:

(Start: 58 @19500 has 34 MA's), (95, 19620), (96, 19626), (104, 19662), (120, 19701), (124, 19713), (129, 19731), (155, 19809), (175, 19878), (184, 19905),

Gene: Quesadilla_26 Start: 20803, Stop: 21240, Start Num: 55

Candidate Starts for Quesadilla_26:

(Start: 55 @20803 has 20 MA's), (95, 20929), (96, 20935), (104, 20971), (116, 20998), (155, 21118), (163, 21148), (175, 21187),

Gene: Quisquiliae_25 Start: 18690, Stop: 19112, Start Num: 53

Candidate Starts for Quisquiliae_25:

(34, 18624), (Start: 53 @18690 has 213 MA's), (93, 18813), (95, 18819), (96, 18825), (116, 18888), (129, 18930), (155, 19008), (167, 19056), (178, 19080), (182, 19098), (184, 19104),

Gene: Racecar_88 Start: 53421, Stop: 53804, Start Num: 61

Candidate Starts for Racecar_88:

(Start: 61 @53421 has 46 MA's), (72, 53460), (74, 53463), (97, 53562), (105, 53586), (124, 53637), (126, 53646), (142, 53700), (155, 53727), (159, 53739),

Gene: RagingRooster_26 Start: 19364, Stop: 19777, Start Num: 61

Candidate Starts for RagingRooster_26:

(Start: 61 @19364 has 46 MA's), (86, 19439), (95, 19484), (96, 19490), (131, 19622), (175, 19748),

Gene: RainyPolka_20 Start: 19600, Stop: 19980, Start Num: 78

Candidate Starts for RainyPolka_20:

(16, 19327), (26, 19408), (Start: 78 @19600 has 7 MA's), (85, 19615), (94, 19657), (104, 19702), (122, 19744), (140, 19822), (159, 19873), (162, 19888), (168, 19915), (170, 19918),

Gene: RawrgerThat_23 Start: 19333, Stop: 19746, Start Num: 58

Candidate Starts for RawrgerThat_23:

(Start: 58 @19333 has 34 MA's), (93, 19447), (95, 19453), (96, 19459), (104, 19495), (120, 19534), (124, 19546), (129, 19564), (155, 19642), (160, 19657), (175, 19711), (178, 19714), (184, 19738),

Gene: RedMaple_24 Start: 18686, Stop: 19108, Start Num: 53

Candidate Starts for RedMaple_24:

(34, 18620), (Start: 53 @18686 has 213 MA's), (93, 18809), (95, 18815), (96, 18821), (116, 18884), (129, 18926), (155, 19004), (167, 19052), (178, 19076), (182, 19094), (184, 19100),

Gene: ReginaGlobina_87 Start: 52911, Stop: 53291, Start Num: 63

Candidate Starts for ReginaGlobina_87:

(Start: 63 @52911 has 6 MA's), (66, 52920), (72, 52947), (111, 53088), (126, 53133), (136, 53166), (160, 53229),

Gene: Reprobate_25 Start: 19641, Stop: 20057, Start Num: 57

Candidate Starts for Reprobate_25:

(Start: 57 @19641 has 22 MA's), (77, 19701), (95, 19764), (96, 19770), (129, 19875), (135, 19905), (155, 19953), (185, 20052),

Gene: Ribeye_30 Start: 23007, Stop: 23441, Start Num: 50

Candidate Starts for Ribeye_30:

(Start: 50 @23007 has 8 MA's), (82, 23061), (91, 23091), (107, 23166), (137, 23268), (143, 23289), (172, 23361), (188, 23412),

Gene: Rich_24 Start: 19142, Stop: 19558, Start Num: 57

Candidate Starts for Rich_24:

(Start: 57 @19142 has 22 MA's), (93, 19259), (96, 19271), (116, 19334), (175, 19523), (185, 19553),

Gene: Ricotta_24 Start: 18398, Stop: 18820, Start Num: 53

Candidate Starts for Ricotta_24:

(34, 18332), (Start: 53 @18398 has 213 MA's), (93, 18521), (95, 18527), (96, 18533), (116, 18596), (129, 18638), (155, 18716), (167, 18764), (178, 18788), (182, 18806), (184, 18812),

Gene: Riggan_25 Start: 18658, Stop: 19080, Start Num: 53

Candidate Starts for Riggan_25:

(34, 18592), (Start: 53 @18658 has 213 MA's), (93, 18781), (95, 18787), (96, 18793), (116, 18856), (129, 18898), (155, 18976), (167, 19024), (178, 19048), (182, 19066), (184, 19072),

Gene: Rinkes_28 Start: 21670, Stop: 22086, Start Num: 57

Candidate Starts for Rinkes_28:

(Start: 57 @21670 has 22 MA's), (95, 21793), (96, 21799), (104, 21835), (129, 21904), (155, 21982), (160, 21997), (175, 22051), (178, 22054), (184, 22078),

Gene: Rita130_25 Start: 19390, Stop: 19806, Start Num: 57

Candidate Starts for Rita130_25:

(Start: 57 @19390 has 22 MA's), (77, 19450), (96, 19519), (129, 19624), (135, 19654), (185, 19801),

Gene: Rita1961_26 Start: 19359, Stop: 19772, Start Num: 61

Candidate Starts for Rita1961_26:

(Start: 61 @19359 has 46 MA's), (86, 19434), (95, 19479), (96, 19485), (131, 19617), (175, 19743),

Gene: RiverRaider_30 Start: 21439, Stop: 21873, Start Num: 62

Candidate Starts for RiverRaider_30:

(Start: 62 @21439 has 90 MA's), (91, 21523), (137, 21700), (143, 21721), (166, 21778), (172, 21793), (188, 21844),

Gene: Riverton_24 Start: 18682, Stop: 19104, Start Num: 53

Candidate Starts for Riverton_24:

(34, 18616), (Start: 53 @18682 has 213 MA's), (93, 18805), (95, 18811), (96, 18817), (116, 18880), (129, 18922), (155, 19000), (167, 19048), (178, 19072), (182, 19090), (184, 19096),

Gene: RoadKill_25 Start: 19107, Stop: 19538, Start Num: 62

Candidate Starts for RoadKill_25:

(18, 18933), (27, 18984), (Start: 62 @19107 has 90 MA's), (91, 19191), (107, 19266), (142, 19386), (149, 19401), (172, 19461), (186, 19500), (187, 19509), (188, 19512),

Gene: RobinRose_34 Start: 21130, Stop: 21525, Start Num: 47

Candidate Starts for RobinRose_34:

(Start: 47 @21130 has 43 MA's), (68, 21172), (73, 21181), (99, 21289), (157, 21430), (187, 21517),

Gene: Robyn_24 Start: 18249, Stop: 18671, Start Num: 53

Candidate Starts for Robyn_24:

(34, 18183), (Start: 53 @18249 has 213 MA's), (93, 18372), (95, 18378), (96, 18384), (116, 18447), (129, 18489), (155, 18567), (167, 18615), (178, 18639), (182, 18657), (184, 18663),

Gene: Rockabye_89 Start: 55651, Stop: 56040, Start Num: 63

Candidate Starts for Rockabye_89:

(Start: 63 @55651 has 6 MA's), (81, 55711), (89, 55741), (96, 55774), (126, 55873), (142, 55927), (155, 55954), (159, 55966), (171, 56014),

Gene: Rofo_30 Start: 23214, Stop: 23648, Start Num: 62

Candidate Starts for Rofo_30:

(41, 23184), (Start: 62 @23214 has 90 MA's), (91, 23298), (107, 23373), (119, 23397), (137, 23475), (172, 23568), (188, 23619),

Gene: RogerDodger_29 Start: 18449, Stop: 18892, Start Num: 62

Candidate Starts for RogerDodger_29:

(Start: 62 @18449 has 90 MA's), (137, 18710), (188, 18866),

Gene: Roliet_25 Start: 18674, Stop: 19096, Start Num: 53

Candidate Starts for Roliet_25:

(34, 18608), (Start: 53 @18674 has 213 MA's), (93, 18797), (95, 18803), (96, 18809), (116, 18872), (129, 18914), (155, 18992), (167, 19040), (178, 19064), (182, 19082), (184, 19088),

Gene: RomaT_26 Start: 20149, Stop: 20562, Start Num: 61

Candidate Starts for RomaT_26:

(Start: 61 @20149 has 46 MA's), (95, 20269), (96, 20275), (131, 20407), (175, 20533),

Gene: Romm_34 Start: 21130, Stop: 21525, Start Num: 47

Candidate Starts for Romm_34:

(Start: 47 @21130 has 43 MA's), (68, 21172), (73, 21181), (99, 21289), (157, 21430), (187, 21517),

Gene: Roscoe_26 Start: 18916, Stop: 19338, Start Num: 53

Candidate Starts for Roscoe_26:

(34, 18850), (Start: 53 @18916 has 213 MA's), (93, 19039), (95, 19045), (96, 19051), (116, 19114), (129, 19156), (155, 19234), (167, 19282), (178, 19306), (182, 19324), (184, 19330),

Gene: Rowlf_29 Start: 21810, Stop: 22223, Start Num: 47

Candidate Starts for Rowlf_29:

(33, 21753), (Start: 47 @21810 has 43 MA's), (99, 21969), (142, 22086), (148, 22101),

Gene: Roy17_25 Start: 18378, Stop: 18800, Start Num: 53

Candidate Starts for Roy17_25:

(34, 18312), (Start: 53 @18378 has 213 MA's), (93, 18501), (95, 18507), (96, 18513), (116, 18576), (129, 18618), (155, 18696), (167, 18744), (178, 18768), (182, 18786), (184, 18792),

Gene: RubyRalph_35 Start: 21703, Stop: 22119, Start Num: 47

Candidate Starts for RubyRalph_35:

(23, 21580), (37, 21670), (Start: 47 @21703 has 43 MA's), (92, 21814), (124, 21919), (150, 22000), (154, 22003), (189, 22114),

Gene: Rudy_31 Start: 21668, Stop: 22081, Start Num: 47

Candidate Starts for Rudy_31:

(33, 21611), (39, 21641), (Start: 47 @21668 has 43 MA's), (67, 21704), (99, 21827), (142, 21944), (148, 21959),

Gene: SDcharge11_25 Start: 18656, Stop: 19078, Start Num: 53

Candidate Starts for SDcharge11_25:

(34, 18590), (Start: 53 @18656 has 213 MA's), (93, 18779), (95, 18785), (96, 18791), (116, 18854), (129, 18896), (155, 18974), (167, 19022), (178, 19046), (182, 19064), (184, 19070),

Gene: SJReid_93 Start: 54733, Stop: 55122, Start Num: 63

Candidate Starts for SJReid_93:

(Start: 63 @54733 has 6 MA's), (79, 54790), (105, 54895), (106, 54898), (126, 54955), (142, 55009), (155, 55036), (159, 55048), (171, 55096),

Gene: SadLad_37 Start: 22646, Stop: 23062, Start Num: 47

Candidate Starts for SadLad_37:

(5, 22172), (6, 22178), (8, 22205), (11, 22295), (23, 22523), (37, 22613), (Start: 47 @22646 has 43 MA's), (92, 22757), (150, 22943), (154, 22946), (189, 23057),

Gene: Saguaro_26 Start: 20711, Stop: 21127, Start Num: 57

Candidate Starts for Saguaro_26:

(Start: 57 @20711 has 22 MA's), (95, 20834), (155, 21023), (160, 21038), (163, 21053),

Gene: Salete_19 Start: 19235, Stop: 19615, Start Num: 78

Candidate Starts for Salete_19:

(9, 18785), (26, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (104, 19337), (132, 19427), (140, 19457), (159, 19508), (162, 19523), (168, 19550), (170, 19553),

Gene: SallyK_34 Start: 22743, Stop: 23147, Start Num: 47

Candidate Starts for SallyK_34:

(Start: 47 @22743 has 43 MA's), (67, 22779), (123, 22953), (129, 22974), (144, 23019), (148, 23028), (187, 23133), (189, 23142),

Gene: Salvador_26 Start: 17570, Stop: 18013, Start Num: 62

Candidate Starts for Salvador_26:

(Start: 62 @17570 has 90 MA's), (137, 17831), (188, 17987),

Gene: Samaymay_25 Start: 18675, Stop: 19097, Start Num: 53

Candidate Starts for Samaymay_25:

(34, 18609), (Start: 53 @18675 has 213 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: Sampson_30 Start: 22909, Stop: 23340, Start Num: 62

Candidate Starts for Sampson_30:

(35, 22849), (43, 22882), (Start: 62 @22909 has 90 MA's), (97, 23038), (107, 23068), (137, 23170), (139, 23176), (143, 23191), (166, 23248), (172, 23263), (187, 23311), (188, 23314),

Gene: Sanjuju_28 Start: 23395, Stop: 23829, Start Num: 62

Candidate Starts for Sanjuju_28:

(41, 23365), (Start: 62 @23395 has 90 MA's), (91, 23479), (107, 23554), (119, 23578), (137, 23656), (143, 23677), (172, 23749), (188, 23800),

Gene: Saronaya_29 Start: 21853, Stop: 22287, Start Num: 62

Candidate Starts for Saronaya_29:

(51, 21844), (Start: 62 @21853 has 90 MA's), (91, 21937), (107, 22012), (137, 22114), (143, 22135), (166, 22192), (172, 22207), (188, 22258),

Gene: SassyCat97_24 Start: 18384, Stop: 18806, Start Num: 53

Candidate Starts for SassyCat97_24:

(34, 18318), (Start: 53 @18384 has 213 MA's), (93, 18507), (95, 18513), (96, 18519), (116, 18582), (129, 18624), (155, 18702), (167, 18750), (178, 18774), (182, 18792), (184, 18798),

Gene: Savbucketdawg_26 Start: 17351, Stop: 17794, Start Num: 62

Candidate Starts for Savbucketdawg_26:

(Start: 62 @17351 has 90 MA's), (137, 17612), (188, 17768),

Gene: Schadenfreude_24 Start: 18232, Stop: 18654, Start Num: 53

Candidate Starts for Schadenfreude_24:

(34, 18166), (Start: 53 @18232 has 213 MA's), (93, 18355), (95, 18361), (96, 18367), (116, 18430), (129, 18472), (155, 18550), (167, 18598), (178, 18622), (182, 18640), (184, 18646),

Gene: SchottB_28 Start: 22865, Stop: 23299, Start Num: 62

Candidate Starts for SchottB_28:

(51, 22856), (Start: 62 @22865 has 90 MA's), (91, 22949), (107, 23024), (137, 23126), (143, 23147), (166, 23204), (172, 23219), (188, 23270),

Gene: Schueller_24 Start: 18375, Stop: 18797, Start Num: 52

Candidate Starts for Schueller_24:

(Start: 52 @18375 has 55 MA's), (93, 18498), (95, 18504), (96, 18510), (116, 18573), (129, 18615), (155, 18693), (167, 18741), (178, 18765), (182, 18783), (184, 18789),

Gene: Scioto_30 Start: 22964, Stop: 23395, Start Num: 62

Candidate Starts for Scioto_30:

(35, 22904), (43, 22937), (Start: 62 @22964 has 90 MA's), (97, 23093), (107, 23123), (137, 23225), (139, 23231), (143, 23246), (166, 23303), (172, 23318), (187, 23366), (188, 23369),

Gene: Scoot17C_25 Start: 18677, Stop: 19099, Start Num: 53

Candidate Starts for Scoot17C_25:

(34, 18611), (Start: 53 @18677 has 213 MA's), (93, 18800), (95, 18806), (96, 18812), (116, 18875), (129, 18917), (142, 18968), (155, 18995), (167, 19043), (178, 19067), (182, 19085), (184, 19091),

Gene: Scrick_25 Start: 18402, Stop: 18824, Start Num: 53

Candidate Starts for Scrick_25:

(34, 18336), (Start: 53 @18402 has 213 MA's), (93, 18525), (95, 18531), (96, 18537), (116, 18600), (129, 18642), (155, 18720), (167, 18768), (178, 18792), (182, 18810), (184, 18816),

Gene: Sedona_30 Start: 24320, Stop: 24754, Start Num: 62

Candidate Starts for Sedona_30:

(Start: 62 @24320 has 90 MA's), (91, 24404), (107, 24479), (119, 24503), (137, 24581), (143, 24602), (166, 24659), (172, 24674), (188, 24725),

Gene: Sejanus_22 Start: 17555, Stop: 17959, Start Num: 57

Candidate Starts for Sejanus_22:

(Start: 57 @17555 has 22 MA's), (86, 17633), (95, 17678), (96, 17684), (107, 17729), (116, 17750), (129, 17792), (131, 17816), (142, 17843), (147, 17855), (173, 17933),

Gene: Selr12_25 Start: 18399, Stop: 18821, Start Num: 53

Candidate Starts for Selr12_25:

(34, 18333), (Start: 53 @18399 has 213 MA's), (93, 18522), (95, 18528), (96, 18534), (116, 18597), (129, 18639), (155, 18717), (167, 18765), (178, 18789), (182, 18807), (184, 18813),

Gene: Serendipitous_24 Start: 19199, Stop: 19615, Start Num: 57

Candidate Starts for Serendipitous_24:

(Start: 57 @19199 has 22 MA's), (97, 19343), (104, 19364), (124, 19415), (142, 19484), (175, 19580), (185, 19610),

Gene: Serendipity_25 Start: 18697, Stop: 19119, Start Num: 53

Candidate Starts for Serendipity_25:

(34, 18631), (Start: 53 @18697 has 213 MA's), (93, 18820), (95, 18826), (96, 18832), (116, 18895), (129, 18937), (155, 19015), (167, 19063), (178, 19087), (182, 19105), (184, 19111),

Gene: Serpentine_0025 Start: 18677, Stop: 19099, Start Num: 53

Candidate Starts for Serpentine_0025:

(34, 18611), (Start: 53 @18677 has 213 MA's), (93, 18800), (95, 18806), (96, 18812), (116, 18875), (129, 18917), (155, 18995), (167, 19043), (178, 19067), (182, 19085), (184, 19091),

Gene: Shatter_22 Start: 17225, Stop: 17635, Start Num: 55

Candidate Starts for Shatter_22:

(Start: 55 @17225 has 20 MA's), (86, 17306), (93, 17345), (96, 17357), (106, 17399), (109, 17405), (116, 17423), (141, 17513),

Gene: Sheila_25 Start: 18669, Stop: 19091, Start Num: 53

Candidate Starts for Sheila_25:

(34, 18603), (Start: 53 @18669 has 213 MA's), (93, 18792), (95, 18798), (96, 18804), (116, 18867), (129, 18909), (155, 18987), (167, 19035), (178, 19059), (182, 19077), (184, 19083),

Gene: Shenandoah_26 Start: 19342, Stop: 19755, Start Num: 61

Candidate Starts for Shenandoah_26:

(Start: 61 @19342 has 46 MA's), (86, 19417), (95, 19462), (96, 19468), (131, 19600), (175, 19726),

Gene: Shenyu_25 Start: 19342, Stop: 19758, Start Num: 57

Candidate Starts for Shenyu_25:

(Start: 57 @19342 has 22 MA's), (116, 19534), (129, 19576), (142, 19627), (185, 19753),

Gene: ShiVal_25 Start: 18669, Stop: 19091, Start Num: 53

Candidate Starts for ShiVal_25:

(34, 18603), (Start: 53 @18669 has 213 MA's), (93, 18792), (95, 18798), (96, 18804), (116, 18867), (129, 18909), (155, 18987), (167, 19035), (178, 19059), (182, 19077), (184, 19083),

Gene: Shinji_26 Start: 17540, Stop: 17983, Start Num: 62

Candidate Starts for Shinji_26:

(Start: 62 @17540 has 90 MA's), (137, 17801), (188, 17957),

Gene: Shivanishola_31 Start: 23294, Stop: 23728, Start Num: 62

Candidate Starts for Shivanishola_31:

(41, 23264), (Start: 62 @23294 has 90 MA's), (91, 23378), (107, 23453), (119, 23477), (137, 23555), (143, 23576), (172, 23648), (188, 23699),

Gene: Sigman_25 Start: 18668, Stop: 19090, Start Num: 53

Candidate Starts for Sigman_25:

(34, 18602), (Start: 53 @18668 has 213 MA's), (93, 18791), (95, 18797), (96, 18803), (116, 18866), (129, 18908), (155, 18986), (167, 19034), (178, 19058), (182, 19076), (184, 19082),

Gene: Sillytadpoles_34 Start: 21633, Stop: 22037, Start Num: 47

Candidate Starts for Sillytadpoles_34:

(33, 21576), (Start: 47 @21633 has 43 MA's), (67, 21669), (123, 21843), (129, 21864), (144, 21909), (148, 21918), (187, 22023), (189, 22032),

Gene: SilverBell_25 Start: 18692, Stop: 19114, Start Num: 53

Candidate Starts for SilverBell_25:

(34, 18626), (Start: 53 @18692 has 213 MA's), (93, 18815), (95, 18821), (96, 18827), (116, 18890), (129, 18932), (155, 19010), (167, 19058), (178, 19082), (182, 19100), (184, 19106),

Gene: Simielle_24 Start: 18367, Stop: 18789, Start Num: 53

Candidate Starts for Simielle_24:

(34, 18301), (Start: 53 @18367 has 213 MA's), (93, 18490), (95, 18496), (96, 18502), (116, 18565), (129, 18607), (155, 18685), (167, 18733), (178, 18757), (182, 18775), (184, 18781),

Gene: SirBeauregard_24 Start: 18361, Stop: 18783, Start Num: 52

Candidate Starts for SirBeauregard_24:

(Start: 52 @18361 has 55 MA's), (81, 18433), (93, 18484), (95, 18490), (96, 18496), (116, 18559), (129, 18601), (155, 18679), (167, 18727), (178, 18751), (182, 18769), (184, 18775),

Gene: SirJeffery_25 Start: 19385, Stop: 19801, Start Num: 57

Candidate Starts for SirJeffery_25:

(Start: 57 @19385 has 22 MA's), (77, 19445), (96, 19514), (129, 19619), (135, 19649), (185, 19796),

Gene: Sisko_22 Start: 17508, Stop: 17921, Start Num: 55

Candidate Starts for Sisko_22:

(Start: 55 @17508 has 20 MA's), (79, 17577), (96, 17643), (109, 17691), (141, 17799), (175, 17898),

Gene: Sitar_30 Start: 24387, Stop: 24821, Start Num: 62

Candidate Starts for Sitar_30:

(41, 24357), (Start: 62 @24387 has 90 MA's), (91, 24471), (107, 24546), (137, 24648), (143, 24669), (172, 24741), (188, 24792),

Gene: Sixama_94 Start: 51509, Stop: 51916, Start Num: 63

Candidate Starts for Sixama_94:

(Start: 61 @51506 has 46 MA's), (Start: 63 @51509 has 6 MA's), (72, 51545), (91, 51602), (133, 51776), (134, 51785), (145, 51821), (151, 51833), (160, 51854), (167, 51887), (171, 51899), (174, 51908),

Gene: Skippy_25 Start: 18662, Stop: 19084, Start Num: 53

Candidate Starts for Skippy_25:

(34, 18596), (Start: 53 @18662 has 213 MA's), (93, 18785), (95, 18791), (96, 18797), (116, 18860), (129, 18902), (155, 18980), (167, 19028), (178, 19052), (182, 19070), (184, 19076),

Gene: Slatt_25 Start: 18691, Stop: 19113, Start Num: 53

Candidate Starts for Slatt_25:

(34, 18625), (Start: 53 @18691 has 213 MA's), (93, 18814), (95, 18820), (96, 18826), (116, 18889), (129, 18931), (155, 19009), (167, 19057), (178, 19081), (182, 19099), (184, 19105),

Gene: SlippinJimmy_26 Start: 20128, Stop: 20541, Start Num: 61

Candidate Starts for SlippinJimmy_26:

(Start: 61 @20128 has 46 MA's), (95, 20248), (96, 20254), (109, 20302), (131, 20386), (175, 20512),

Gene: SmokingBunny_26 Start: 17570, Stop: 18013, Start Num: 62

Candidate Starts for SmokingBunny_26:

(Start: 62 @17570 has 90 MA's), (137, 17831), (188, 17987),

Gene: Soile_25 Start: 18389, Stop: 18811, Start Num: 52

Candidate Starts for Soile_25:

(Start: 52 @18389 has 55 MA's), (95, 18518), (96, 18524), (116, 18587), (129, 18629), (155, 18707), (167, 18755), (178, 18779), (182, 18797), (184, 18803),

Gene: Solosis_24 Start: 18394, Stop: 18816, Start Num: 53

Candidate Starts for Solosis_24:

(34, 18328), (Start: 53 @18394 has 213 MA's), (93, 18517), (95, 18523), (96, 18529), (116, 18592), (129, 18634), (155, 18712), (167, 18760), (178, 18784), (182, 18802), (184, 18808),

Gene: Sophia_24 Start: 18387, Stop: 18809, Start Num: 53

Candidate Starts for Sophia_24:

(34, 18321), (Start: 53 @18387 has 213 MA's), (93, 18510), (95, 18516), (96, 18522), (116, 18585), (129, 18627), (155, 18705), (167, 18753), (178, 18777), (182, 18795), (184, 18801),

Gene: Soto_25 Start: 18671, Stop: 19093, Start Num: 53

Candidate Starts for Soto_25:

(34, 18605), (Start: 53 @18671 has 213 MA's), (93, 18794), (95, 18800), (96, 18806), (116, 18869), (129, 18911), (155, 18989), (167, 19037), (178, 19061), (182, 19079), (184, 19085),

Gene: Sour_26 Start: 21204, Stop: 21638, Start Num: 45

Candidate Starts for Sour_26:

(Start: 45 @21204 has 1 MA's), (Start: 55 @21225 has 20 MA's), (79, 21294), (106, 21402), (109, 21408), (129, 21468), (130, 21474), (141, 21516),

Gene: Spartan300_25 Start: 18672, Stop: 19094, Start Num: 53

Candidate Starts for Spartan300_25:

(34, 18606), (Start: 53 @18672 has 213 MA's), (93, 18795), (95, 18801), (96, 18807), (116, 18870), (129, 18912), (155, 18990), (167, 19038), (178, 19062), (182, 19080), (184, 19086),

Gene: Squash_35 Start: 22692, Stop: 23105, Start Num: 47

Candidate Starts for Squash_35:

(33, 22635), (Start: 47 @22692 has 43 MA's), (99, 22851), (142, 22968), (148, 22983),

Gene: Squid_25 Start: 18384, Stop: 18806, Start Num: 53

Candidate Starts for Squid_25:

(34, 18318), (Start: 53 @18384 has 213 MA's), (93, 18507), (95, 18513), (96, 18519), (116, 18582), (129, 18624), (155, 18702), (167, 18750), (178, 18774), (182, 18792), (184, 18798),

Gene: Squiggle_25 Start: 18381, Stop: 18803, Start Num: 53

Candidate Starts for Squiggle_25:

(34, 18315), (Start: 53 @18381 has 213 MA's), (93, 18504), (95, 18510), (96, 18516), (116, 18579), (129, 18621), (155, 18699), (167, 18747), (178, 18771), (182, 18789), (184, 18795),

Gene: Statler_35 Start: 22552, Stop: 22956, Start Num: 47

Candidate Starts for Statler_35:

(36, 22507), (Start: 47 @22552 has 43 MA's), (Start: 55 @22564 has 20 MA's), (67, 22588), (123, 22762), (129, 22783), (144, 22828), (148, 22837), (187, 22942), (189, 22951),

Gene: Stinger_21 Start: 17880, Stop: 18293, Start Num: 58

Candidate Starts for Stinger_21:

(Start: 58 @17880 has 34 MA's), (95, 18000), (96, 18006), (104, 18042), (116, 18069), (120, 18081), (124, 18093), (129, 18111), (155, 18189), (175, 18258), (178, 18261), (184, 18285),

Gene: StinkyVeggy_27 Start: 19514, Stop: 19930, Start Num: 57

Candidate Starts for StinkyVeggy_27:

(Start: 57 @19514 has 22 MA's), (116, 19706), (142, 19799), (185, 19925),

Gene: StorminNorm_29 Start: 21732, Stop: 22166, Start Num: 62

Candidate Starts for StorminNorm_29:

(51, 21723), (Start: 62 @21732 has 90 MA's), (91, 21816), (107, 21891), (137, 21993), (143, 22014), (166, 22071), (172, 22086), (188, 22137),

Gene: StrawberryJamm_35 Start: 21872, Stop: 22285, Start Num: 47

Candidate Starts for StrawberryJamm_35:

(33, 21815), (Start: 47 @21872 has 43 MA's), (99, 22031), (142, 22148), (148, 22163),

Gene: Struggle_24 Start: 18228, Stop: 18650, Start Num: 52

Candidate Starts for Struggle_24:

(Start: 52 @18228 has 55 MA's), (93, 18351), (95, 18357), (96, 18363), (116, 18426), (129, 18468), (155, 18546), (167, 18594), (178, 18618), (182, 18636), (184, 18642),

Gene: Stultus_28 Start: 22302, Stop: 22736, Start Num: 62

Candidate Starts for Stultus_28:

(41, 22272), (Start: 62 @22302 has 90 MA's), (91, 22386), (107, 22461), (119, 22485), (137, 22563), (143, 22584), (172, 22656), (188, 22707),

Gene: Suffolk_25 Start: 18674, Stop: 19096, Start Num: 53

Candidate Starts for Suffolk_25:

(34, 18608), (Start: 53 @18674 has 213 MA's), (93, 18797), (95, 18803), (96, 18809), (116, 18872), (129, 18914), (155, 18992), (167, 19040), (178, 19064), (182, 19082), (184, 19088),

Gene: Suigeneris_25 Start: 19394, Stop: 19810, Start Num: 57

Candidate Starts for Suigeneris_25:

(Start: 57 @19394 has 22 MA's), (77, 19454), (96, 19523), (129, 19628), (135, 19658), (185, 19805),

Gene: Sunfish_41 Start: 23003, Stop: 23479, Start Num: 47

Candidate Starts for Sunfish_41:

(Start: 47 @23003 has 43 MA's), (84, 23084), (129, 23234), (137, 23288), (142, 23306), (152, 23333),

Gene: Surely_25 Start: 18686, Stop: 19108, Start Num: 53

Candidate Starts for Surely_25:

(34, 18620), (Start: 53 @18686 has 213 MA's), (93, 18809), (95, 18815), (96, 18821), (116, 18884), (129, 18926), (155, 19004), (167, 19052), (178, 19076), (182, 19094), (184, 19100),

Gene: SwainyDoc_26 Start: 19361, Stop: 19774, Start Num: 61

Candidate Starts for SwainyDoc_26:

(Start: 61 @19361 has 46 MA's), (86, 19436), (95, 19481), (96, 19487), (131, 19619), (175, 19745),

Gene: Swiphy_26 Start: 18675, Stop: 19097, Start Num: 52

Candidate Starts for Swiphy_26:

(Start: 52 @18675 has 55 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: Swish_25 Start: 18669, Stop: 19091, Start Num: 53

Candidate Starts for Swish_25:

(34, 18603), (Start: 53 @18669 has 213 MA's), (93, 18792), (95, 18798), (96, 18804), (116, 18867), (129, 18909), (155, 18987), (167, 19035), (178, 19059), (182, 19077), (184, 19083),

Gene: SynergyX_26 Start: 19364, Stop: 19777, Start Num: 61

Candidate Starts for SynergyX_26:

(Start: 61 @19364 has 46 MA's), (86, 19439), (95, 19484), (96, 19490), (131, 19622), (175, 19748),

Gene: TP1604_19 Start: 19235, Stop: 19615, Start Num: 78

Candidate Starts for TP1604_19:

(9, 18785), (26, 19067), (Start: 78 @19235 has 7 MA's), (85, 19250), (94, 19292), (104, 19337), (132, 19427), (140, 19457), (159, 19508), (162, 19523), (168, 19550), (170, 19553),

Gene: TPA2_31 Start: 19553, Stop: 19993, Start Num: 46

Candidate Starts for TPA2_31:

(Start: 46 @19553 has 2 MA's), (95, 19697), (96, 19703), (116, 19769), (155, 19892), (175, 19961), (180, 19979),

Gene: Talia1610_87 Start: 52786, Stop: 53169, Start Num: 61

Candidate Starts for Talia1610_87:

(Start: 61 @52786 has 46 MA's), (72, 52825), (97, 52927), (105, 52951), (113, 52972), (124, 53002), (126, 53011), (142, 53065), (155, 53092), (159, 53104),

Gene: TallGrassMM_25 Start: 18401, Stop: 18823, Start Num: 53

Candidate Starts for TallGrassMM_25:

(34, 18335), (Start: 53 @18401 has 213 MA's), (93, 18524), (95, 18530), (96, 18536), (116, 18599), (129, 18641), (142, 18692), (155, 18719), (167, 18767), (178, 18791), (182, 18809), (184, 18815),

Gene: Tangent_30 Start: 22736, Stop: 23170, Start Num: 62

Candidate Starts for Tangent_30:

(41, 22706), (Start: 62 @22736 has 90 MA's), (91, 22820), (107, 22895), (119, 22919), (137, 22997), (172, 23090), (188, 23141),

Gene: Tangerine_29 Start: 21738, Stop: 22172, Start Num: 62

Candidate Starts for Tangerine_29:

(51, 21729), (Start: 62 @21738 has 90 MA's), (91, 21822), (107, 21897), (137, 21999), (143, 22020), (166, 22077), (172, 22092), (188, 22143),

Gene: Taptic_19 Start: 18137, Stop: 18547, Start Num: 58

Candidate Starts for Taptic_19:

(Start: 58 @18137 has 34 MA's), (86, 18212), (95, 18257), (96, 18263), (106, 18305), (116, 18329), (123, 18350), (153, 18452), (167, 18497),

Gene: Tardus_31 Start: 22245, Stop: 22676, Start Num: 62

Candidate Starts for Tardus_31:

(43, 22218), (Start: 62 @22245 has 90 MA's), (91, 22329), (97, 22374), (107, 22404), (137, 22506), (139, 22512), (143, 22527), (166, 22584), (172, 22599), (187, 22647), (188, 22650),

Gene: Teehee_34 Start: 22869, Stop: 23273, Start Num: 47

Candidate Starts for Teehee_34:

(33, 22812), (Start: 47 @22869 has 43 MA's), (67, 22905), (123, 23079), (129, 23100), (144, 23145), (148, 23154), (187, 23259), (189, 23268),

Gene: Telesworld_24 Start: 18380, Stop: 18802, Start Num: 53

Candidate Starts for Telesworld_24:

(34, 18314), (Start: 53 @18380 has 213 MA's), (93, 18503), (95, 18509), (96, 18515), (116, 18578), (129, 18620), (155, 18698), (167, 18746), (178, 18770), (182, 18788), (184, 18794),

Gene: Tempo_32 Start: 21006, Stop: 21401, Start Num: 47

Candidate Starts for Tempo_32:

(Start: 47 @21006 has 43 MA's), (68, 21048), (73, 21057), (99, 21165), (145, 21288), (157, 21306), (187, 21393),

Gene: Thing3_29 Start: 23229, Stop: 23663, Start Num: 62

Candidate Starts for Thing3_29:

(41, 23199), (Start: 62 @23229 has 90 MA's), (91, 23313), (107, 23388), (119, 23412), (137, 23490), (143, 23511), (172, 23583), (188, 23634),

Gene: Thonko_24 Start: 17161, Stop: 17574, Start Num: 58

Candidate Starts for Thonko_24:

(10, 16762), (12, 16798), (25, 17026), (Start: 58 @17161 has 34 MA's), (95, 17281), (96, 17287), (99, 17311), (100, 17314), (129, 17392), (160, 17485),

Gene: Thora_25 Start: 18685, Stop: 19107, Start Num: 53

Candidate Starts for Thora_25:

(34, 18619), (Start: 53 @18685 has 213 MA's), (93, 18808), (95, 18814), (96, 18820), (116, 18883), (129, 18925), (155, 19003), (167, 19051), (178, 19075), (182, 19093), (184, 19099),

Gene: ThreeOh3D2_25 Start: 18684, Stop: 19106, Start Num: 53

Candidate Starts for ThreeOh3D2_25:

(34, 18618), (Start: 53 @18684 has 213 MA's), (93, 18807), (95, 18813), (96, 18819), (116, 18882), (129, 18924), (155, 19002), (167, 19050), (178, 19074), (182, 19092), (184, 19098),

Gene: Thunderbird_24 Start: 18384, Stop: 18806, Start Num: 53

Candidate Starts for Thunderbird_24:

(34, 18318), (Start: 53 @18384 has 213 MA's), (93, 18507), (95, 18513), (96, 18519), (116, 18582), (129, 18624), (155, 18702), (167, 18750), (178, 18774), (182, 18792), (184, 18798),

Gene: Tiamoceli_28 Start: 20458, Stop: 20889, Start Num: 62

Candidate Starts for Tiamoceli_28:

(22, 20290), (Start: 62 @20458 has 90 MA's), (91, 20542), (107, 20617), (142, 20737), (149, 20752), (172, 20812), (177, 20821), (187, 20860), (188, 20863),

Gene: TillyBobJoe_26 Start: 17354, Stop: 17797, Start Num: 62

Candidate Starts for TillyBobJoe_26:

(Start: 62 @17354 has 90 MA's), (137, 17615), (188, 17771),

Gene: Timmi_24 Start: 18395, Stop: 18817, Start Num: 53

Candidate Starts for Timmi_24:

(34, 18329), (Start: 53 @18395 has 213 MA's), (93, 18518), (95, 18524), (96, 18530), (116, 18593), (129, 18635), (155, 18713), (167, 18761), (178, 18785), (182, 18803), (184, 18809),

Gene: TinyTerror_26 Start: 19361, Stop: 19774, Start Num: 61

Candidate Starts for TinyTerror_26:

(Start: 61 @19361 has 46 MA's), (95, 19481), (96, 19487), (109, 19535), (131, 19619), (175, 19745),

Gene: Tissue_33 Start: 22386, Stop: 22790, Start Num: 47

Candidate Starts for Tissue_33:

(Start: 47 @22386 has 43 MA's), (Start: 55 @22398 has 20 MA's), (123, 22596), (129, 22617), (144, 22662), (148, 22671), (187, 22776), (189, 22785),

Gene: Togo_26 Start: 17570, Stop: 18013, Start Num: 62

Candidate Starts for Togo_26:

(Start: 62 @17570 has 90 MA's), (137, 17831), (188, 17987),

Gene: TomBombadil_25 Start: 18680, Stop: 19102, Start Num: 53

Candidate Starts for TomBombadil_25:

(34, 18614), (Start: 53 @18680 has 213 MA's), (93, 18803), (95, 18809), (96, 18815), (116, 18878), (129, 18920), (155, 18998), (167, 19046), (178, 19070), (182, 19088), (184, 19094),

Gene: Tomlarah_25 Start: 18670, Stop: 19092, Start Num: 53

Candidate Starts for Tomlarah_25:

(34, 18604), (Start: 53 @18670 has 213 MA's), (93, 18793), (95, 18799), (96, 18805), (116, 18868), (129, 18910), (155, 18988), (167, 19036), (178, 19060), (182, 19078), (184, 19084),

Gene: Toni_24 Start: 18379, Stop: 18801, Start Num: 53

Candidate Starts for Toni_24:

(34, 18313), (Start: 53 @18379 has 213 MA's), (93, 18502), (95, 18508), (96, 18514), (116, 18577), (129, 18619), (155, 18697), (167, 18745), (178, 18769), (182, 18787), (184, 18793),

Gene: TooFast2Furius_26 Start: 18916, Stop: 19338, Start Num: 53

Candidate Starts for TooFast2Furius_26:

(34, 18850), (Start: 53 @18916 has 213 MA's), (93, 19039), (95, 19045), (96, 19051), (116, 19114), (129, 19156), (155, 19234), (167, 19282), (178, 19306), (182, 19324), (184, 19330),

Gene: Tooj_25 Start: 18681, Stop: 19103, Start Num: 53

Candidate Starts for Tooj_25:

(34, 18615), (Start: 53 @18681 has 213 MA's), (93, 18804), (95, 18810), (96, 18816), (116, 18879), (129, 18921), (155, 18999), (167, 19047), (178, 19071), (182, 19089), (184, 19095),

Gene: True_24 Start: 18383, Stop: 18805, Start Num: 53

Candidate Starts for True_24:

(34, 18317), (Start: 53 @18383 has 213 MA's), (93, 18506), (95, 18512), (96, 18518), (116, 18581), (129, 18623), (155, 18701), (167, 18749), (178, 18773), (182, 18791), (184, 18797),

Gene: Trypo_25 Start: 18672, Stop: 19094, Start Num: 52

Candidate Starts for Trypo_25:

(Start: 52 @18672 has 55 MA's), (93, 18795), (95, 18801), (96, 18807), (116, 18870), (129, 18912), (155, 18990), (167, 19038), (178, 19062), (182, 19080), (184, 19086),

Gene: TurkishDelight_25 Start: 21435, Stop: 21812, Start Num: 80

Candidate Starts for TurkishDelight_25:

(26, 21273), (40, 21360), (64, 21411), (Start: 80 @21435 has 4 MA's), (83, 21441), (85, 21447), (87, 21453), (104, 21534), (120, 21570), (124, 21582), (127, 21594), (137, 21648), (164, 21735), (168, 21747), (181, 21783),

Gene: Twister6_28 Start: 17997, Stop: 18440, Start Num: 62

Candidate Starts for Twister6_28:

(Start: 62 @17997 has 90 MA's), (137, 18258), (188, 18414),

Gene: Twonlo_25 Start: 19076, Stop: 19507, Start Num: 62

Candidate Starts for Twonlo_25:

(Start: 62 @19076 has 90 MA's), (91, 19160), (107, 19235), (142, 19355), (149, 19370), (172, 19430), (177, 19439), (187, 19478), (188, 19481),

Gene: Tycho_29 Start: 21827, Stop: 22261, Start Num: 62

Candidate Starts for Tycho_29:

(51, 21818), (Start: 62 @21827 has 90 MA's), (91, 21911), (107, 21986), (137, 22088), (143, 22109), (166, 22166), (172, 22181), (188, 22232),

Gene: Tydolla_26 Start: 20101, Stop: 20514, Start Num: 61

Candidate Starts for Tydolla_26:

(Start: 61 @20101 has 46 MA's), (95, 20221), (96, 20227), (109, 20275), (131, 20359), (175, 20485),

Gene: TyrionL_24 Start: 18236, Stop: 18658, Start Num: 52

Candidate Starts for TyrionL_24:

(Start: 52 @18236 has 55 MA's), (93, 18359), (95, 18365), (96, 18371), (116, 18434), (129, 18476), (155, 18554), (167, 18602), (178, 18626), (182, 18644), (184, 18650),

Gene: UAch1_25 Start: 18692, Stop: 19114, Start Num: 53

Candidate Starts for UAch1_25:

(34, 18626), (Start: 53 @18692 has 213 MA's), (93, 18815), (95, 18821), (96, 18827), (116, 18890), (129, 18932), (142, 18983), (155, 19010), (167, 19058), (178, 19082), (182, 19100), (184, 19106),

Gene: UncleHowie_25 Start: 18382, Stop: 18804, Start Num: 53

Candidate Starts for UncleHowie_25:

(34, 18316), (Start: 53 @18382 has 213 MA's), (93, 18505), (95, 18511), (96, 18517), (116, 18580), (129, 18622), (155, 18700), (167, 18748), (178, 18772), (182, 18790), (184, 18796),

Gene: Usavi_25 Start: 18683, Stop: 19105, Start Num: 53

Candidate Starts for Usavi_25:

(34, 18617), (Start: 53 @18683 has 213 MA's), (93, 18806), (95, 18812), (96, 18818), (116, 18881), (129, 18923), (142, 18974), (155, 19001), (167, 19049), (178, 19073), (182, 19091), (184, 19097),

Gene: Vaishali24_24 Start: 18341, Stop: 18763, Start Num: 52

Candidate Starts for Vaishali24_24:

(Start: 52 @18341 has 55 MA's), (93, 18464), (95, 18470), (96, 18476), (116, 18539), (129, 18581), (155, 18659), (167, 18707), (178, 18731), (182, 18749), (184, 18755),

Gene: Valary_29 Start: 18503, Stop: 18946, Start Num: 62

Candidate Starts for Valary_29:

(Start: 62 @18503 has 90 MA's), (137, 18764), (188, 18920),

Gene: Valjean_25 Start: 18675, Stop: 19097, Start Num: 53

Candidate Starts for Valjean_25:

(34, 18609), (Start: 53 @18675 has 213 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: VanDeWege_29 Start: 18378, Stop: 18821, Start Num: 62

Candidate Starts for VanDeWege_29:

(Start: 62 @18378 has 90 MA's), (137, 18639), (188, 18795),

Gene: Vaticameos_25 Start: 18373, Stop: 18795, Start Num: 53

Candidate Starts for Vaticameos_25:

(34, 18307), (Start: 53 @18373 has 213 MA's), (93, 18496), (95, 18502), (96, 18508), (116, 18571), (129, 18613), (155, 18691), (167, 18739), (178, 18763), (182, 18781), (184, 18787),

Gene: Veritas_24 Start: 18242, Stop: 18664, Start Num: 52

Candidate Starts for Veritas_24:

(Start: 52 @18242 has 55 MA's), (81, 18314), (93, 18365), (95, 18371), (96, 18377), (116, 18440), (129, 18482), (155, 18560), (167, 18608), (178, 18632), (182, 18650), (184, 18656),

Gene: Verity_29 Start: 23097, Stop: 23528, Start Num: 62

Candidate Starts for Verity_29:

(43, 23070), (Start: 62 @23097 has 90 MA's), (91, 23181), (96, 23211), (97, 23226), (107, 23256), (118, 23277), (137, 23358), (139, 23364), (149, 23391), (166, 23436), (172, 23451), (187, 23499), (188, 23502),

Gene: ViaConlectus_30 Start: 21588, Stop: 22019, Start Num: 62

Candidate Starts for ViaConlectus_30:

(35, 21528), (43, 21561), (Start: 62 @21588 has 90 MA's), (97, 21717), (107, 21747), (137, 21849), (139, 21855), (143, 21870), (166, 21927), (172, 21942), (187, 21990), (188, 21993),

Gene: Viceroy_32 Start: 21635, Stop: 22048, Start Num: 47

Candidate Starts for Viceroy_32:

(33, 21578), (Start: 47 @21635 has 43 MA's), (67, 21671), (99, 21794), (142, 21911), (148, 21926),

Gene: Vincenzo_24 Start: 20089, Stop: 20502, Start Num: 58

Candidate Starts for Vincenzo_24:

(38, 20038), (Start: 58 @20089 has 34 MA's), (95, 20209), (96, 20215), (120, 20290), (129, 20320), (153, 20395), (160, 20413), (184, 20494),

Gene: VioletZ_23 Start: 19392, Stop: 19805, Start Num: 58

Candidate Starts for VioletZ_23:

(Start: 58 @19392 has 34 MA's), (93, 19506), (95, 19512), (96, 19518), (104, 19554), (120, 19593), (124, 19605), (129, 19623), (175, 19770), (184, 19797),

Gene: Virapocalypse_25 Start: 18666, Stop: 19088, Start Num: 53

Candidate Starts for Virapocalypse_25:

(34, 18600), (Start: 53 @18666 has 213 MA's), (93, 18789), (95, 18795), (96, 18801), (116, 18864), (129, 18906), (155, 18984), (167, 19032), (178, 19056), (182, 19074), (184, 19080),

Gene: Virgeve_24 Start: 18408, Stop: 18830, Start Num: 52

Candidate Starts for Virgeve_24:

(Start: 52 @18408 has 55 MA's), (81, 18480), (93, 18531), (95, 18537), (96, 18543), (116, 18606), (129, 18648), (155, 18726), (167, 18774), (178, 18798), (182, 18816), (184, 18822),

Gene: Vista_25 Start: 18680, Stop: 19102, Start Num: 53

Candidate Starts for Vista_25:

(34, 18614), (Start: 53 @18680 has 213 MA's), (93, 18803), (95, 18809), (96, 18815), (116, 18878), (129, 18920), (142, 18971), (155, 18998), (167, 19046), (178, 19070), (182, 19088), (184, 19094),

Gene: Vivaldi_25 Start: 18710, Stop: 19132, Start Num: 53

Candidate Starts for Vivaldi_25:

(34, 18644), (Start: 53 @18710 has 213 MA's), (93, 18833), (95, 18839), (96, 18845), (116, 18908), (129, 18950), (155, 19028), (167, 19076), (178, 19100), (182, 19118), (184, 19124),

Gene: Vivi2_32 Start: 23909, Stop: 24343, Start Num: 62

Candidate Starts for Vivi2_32:

(41, 23879), (Start: 62 @23909 has 90 MA's), (91, 23993), (107, 24068), (119, 24092), (137, 24170), (143, 24191), (172, 24263), (188, 24314),

Gene: Vortex_25 Start: 18390, Stop: 18812, Start Num: 53

Candidate Starts for Vortex_25:

(34, 18324), (Start: 53 @18390 has 213 MA's), (93, 18513), (95, 18519), (96, 18525), (116, 18588), (129, 18630), (155, 18708), (167, 18756), (178, 18780), (182, 18798), (184, 18804),

Gene: WaddleDee_81 Start: 48766, Stop: 49110, Start Num: 72

Candidate Starts for WaddleDee_81:

(Start: 63 @48730 has 6 MA's), (72, 48766), (96, 48853), (115, 48916), (124, 48943), (126, 48952), (160, 49048),

Gene: Waleliano_23 Start: 19331, Stop: 19744, Start Num: 58

Candidate Starts for Waleliano_23:

(Start: 58 @19331 has 34 MA's), (93, 19445), (95, 19451), (96, 19457), (104, 19493), (120, 19532), (124, 19544), (129, 19562), (155, 19640), (175, 19709), (178, 19712), (184, 19736),

Gene: Wallhey_24 Start: 18240, Stop: 18662, Start Num: 52

Candidate Starts for Wallhey_24:

(Start: 52 @18240 has 55 MA's), (93, 18363), (95, 18369), (96, 18375), (116, 18438), (129, 18480), (155, 18558), (167, 18606), (178, 18630), (182, 18648), (184, 18654),

Gene: Waterdiva_25 Start: 18675, Stop: 19097, Start Num: 53

Candidate Starts for Waterdiva_25:

(34, 18609), (Start: 53 @18675 has 213 MA's), (93, 18798), (95, 18804), (96, 18810), (116, 18873), (129, 18915), (155, 18993), (167, 19041), (178, 19065), (182, 19083), (184, 19089),

Gene: Wayne3_34 Start: 22632, Stop: 23036, Start Num: 47

Candidate Starts for Wayne3_34:

(33, 22575), (Start: 47 @22632 has 43 MA's), (67, 22668), (123, 22842), (129, 22863), (144, 22908), (148, 22917), (187, 23022), (189, 23031),

Gene: Weher20_25 Start: 18668, Stop: 19090, Start Num: 52

Candidate Starts for Weher20_25:

(Start: 52 @18668 has 55 MA's), (93, 18791), (95, 18797), (96, 18803), (116, 18866), (129, 18908), (155, 18986), (167, 19034), (178, 19058), (182, 19076), (184, 19082),

Gene: Wheelie_32 Start: 21950, Stop: 22354, Start Num: 47

Candidate Starts for Wheelie_32:

(33, 21893), (Start: 47 @21950 has 43 MA's), (67, 21986), (123, 22160), (129, 22181), (144, 22226), (148, 22235), (187, 22340), (189, 22349),

Gene: Wilca_32 Start: 20827, Stop: 21222, Start Num: 47

Candidate Starts for Wilca_32:

(Start: 47 @20827 has 43 MA's), (68, 20869), (73, 20878), (99, 20986), (157, 21127), (183, 21196), (187, 21214),

Gene: Windsor_24 Start: 18360, Stop: 18782, Start Num: 52

Candidate Starts for Windsor_24:

(Start: 52 @18360 has 55 MA's), (81, 18432), (93, 18483), (95, 18489), (96, 18495), (116, 18558), (129, 18600), (155, 18678), (167, 18726), (178, 18750), (182, 18768), (184, 18774),

Gene: Wizard_26 Start: 17704, Stop: 18147, Start Num: 62

Candidate Starts for Wizard_26:

(Start: 62 @17704 has 90 MA's), (137, 17965), (188, 18121),

Gene: Wooper_24 Start: 18613, Stop: 19023, Start Num: 55

Candidate Starts for Wooper_24:

(Start: 55 @18613 has 20 MA's), (101, 18775), (106, 18787), (155, 18931),

Gene: Xavier_24 Start: 18393, Stop: 18815, Start Num: 53

Candidate Starts for Xavier_24:

(34, 18327), (Start: 53 @18393 has 213 MA's), (93, 18516), (95, 18522), (96, 18528), (116, 18591), (129, 18633), (155, 18711), (167, 18759), (178, 18783), (182, 18801), (184, 18807),

Gene: Xincheng_22 Start: 18792, Stop: 19205, Start Num: 58

Candidate Starts for Xincheng_22:

(Start: 58 @18792 has 34 MA's), (93, 18906), (95, 18912), (96, 18918), (104, 18954), (120, 18993), (124, 19005), (129, 19023), (142, 19074), (155, 19101), (175, 19170), (178, 19173), (184, 19197),

Gene: Xkcd426_25 Start: 26648, Stop: 27025, Start Num: 80

Candidate Starts for Xkcd426_25:

(Start: 57 @26606 has 22 MA's), (Start: 80 @26648 has 4 MA's), (85, 26660), (104, 26747), (128, 26807), (140, 26867), (159, 26918), (168, 26960), (181, 26996),

Gene: YDN12_20 Start: 19174, Stop: 19551, Start Num: 80

Candidate Starts for YDN12_20:

(26, 19003), (Start: 80 @19174 has 4 MA's), (85, 19186), (90, 19207), (94, 19228), (104, 19273), (132, 19363), (140, 19393), (159, 19444), (162, 19459), (168, 19486), (170, 19489),

Gene: Yago84_22 Start: 17516, Stop: 17929, Start Num: 55

Candidate Starts for Yago84_22:

(Start: 55 @17516 has 20 MA's), (79, 17585), (96, 17651), (109, 17699), (141, 17807), (175, 17906),

Gene: Yahalom_26 Start: 19376, Stop: 19789, Start Num: 61

Candidate Starts for Yahalom_26:

(Start: 61 @19376 has 46 MA's), (95, 19496), (96, 19502), (109, 19550), (131, 19634), (175, 19760),

Gene: Yeshua_24 Start: 18590, Stop: 19000, Start Num: 55

Candidate Starts for Yeshua_24:

(Start: 55 @18590 has 20 MA's), (101, 18752), (106, 18764), (155, 18908),

Gene: Yinz_26 Start: 19402, Stop: 19815, Start Num: 61

Candidate Starts for Yinz_26:

(Start: 61 @19402 has 46 MA's), (86, 19477), (95, 19522), (96, 19528), (131, 19660), (175, 19786),

Gene: YorkOnyx_30 Start: 22083, Stop: 22517, Start Num: 50

Candidate Starts for YorkOnyx_30:

(Start: 50 @22083 has 8 MA's), (82, 22137), (91, 22167), (116, 22257), (118, 22263), (137, 22344), (143, 22365), (172, 22437), (188, 22488),

Gene: Yoshand_25 Start: 18682, Stop: 19104, Start Num: 53

Candidate Starts for Yoshand_25:

(34, 18616), (Start: 53 @18682 has 213 MA's), (93, 18805), (95, 18811), (96, 18817), (116, 18880), (129, 18922), (155, 19000), (167, 19048), (178, 19072), (182, 19090), (184, 19096),

Gene: YouGoGlencoco_25 Start: 18671, Stop: 19093, Start Num: 53

Candidate Starts for YouGoGlencoco_25:

(34, 18605), (Start: 53 @18671 has 213 MA's), (93, 18794), (95, 18800), (96, 18806), (116, 18869), (129, 18911), (155, 18989), (167, 19037), (178, 19061), (182, 19079), (184, 19085),

Gene: YungMoney_28 Start: 19070, Stop: 19513, Start Num: 62

Candidate Starts for YungMoney_28:

(Start: 62 @19070 has 90 MA's), (188, 19487),

Gene: Zagie_33 Start: 22073, Stop: 22486, Start Num: 47

Candidate Starts for Zagie_33:

(33, 22016), (Start: 47 @22073 has 43 MA's), (99, 22232), (142, 22349), (148, 22364),

Gene: Zaider_26 Start: 18907, Stop: 19329, Start Num: 53

Candidate Starts for Zaider_26:

(34, 18841), (Start: 53 @18907 has 213 MA's), (93, 19030), (95, 19036), (96, 19042), (116, 19105), (129, 19147), (155, 19225), (167, 19273), (178, 19297), (182, 19315), (184, 19321),

Gene: Zelda_25 Start: 18676, Stop: 19098, Start Num: 53

Candidate Starts for Zelda_25:

(34, 18610), (Start: 53 @18676 has 213 MA's), (93, 18799), (95, 18805), (96, 18811), (116, 18874), (129, 18916), (155, 18994), (167, 19042), (178, 19066), (182, 19084), (184, 19090),

Gene: Zemanar_24 Start: 19331, Stop: 19744, Start Num: 58

Candidate Starts for Zemanar_24:

(Start: 58 @19331 has 34 MA's), (93, 19445), (95, 19451), (96, 19457), (104, 19493), (120, 19532), (124, 19544), (129, 19562), (155, 19640), (175, 19709), (178, 19712), (184, 19736),

Gene: Zenteno07_29 Start: 19112, Stop: 19528, Start Num: 57

Candidate Starts for Zenteno07_29:

(Start: 57 @19112 has 22 MA's), (95, 19235), (99, 19265), (100, 19268), (155, 19424), (160, 19439), (184, 19520),

Gene: Zhafia_36 Start: 22428, Stop: 22832, Start Num: 47

Candidate Starts for Zhafia_36:

(33, 22371), (Start: 47 @22428 has 43 MA's), (67, 22464), (123, 22638), (129, 22659), (144, 22704), (148, 22713), (187, 22818), (189, 22827),

Gene: Zipp_29 Start: 22994, Stop: 23425, Start Num: 62

Candidate Starts for Zipp_29:

(43, 22967), (Start: 62 @22994 has 90 MA's), (96, 23108), (97, 23123), (107, 23153), (118, 23174), (137, 23255), (139, 23261), (149, 23288), (166, 23333), (172, 23348), (187, 23396), (188, 23399),

Gene: Zitch_31 Start: 20868, Stop: 21299, Start Num: 62

Candidate Starts for Zitch_31:

(43, 20841), (Start: 62 @20868 has 90 MA's), (91, 20952), (97, 20997), (107, 21027), (118, 21048), (137, 21129), (139, 21135), (143, 21150), (166, 21207), (172, 21222), (187, 21270), (188, 21273),

Gene: Zonia_25 Start: 18690, Stop: 19112, Start Num: 52

Candidate Starts for Zonia_25:

(Start: 52 @18690 has 55 MA's), (93, 18813), (95, 18819), (96, 18825), (116, 18888), (129, 18930), (155, 19008), (167, 19056), (178, 19080), (182, 19098), (184, 19104),

Gene: Zooman_79 Start: 48365, Stop: 48775, Start Num: 48

Candidate Starts for Zooman_79:

(Start: 48 @48365 has 2 MA's), (60, 48386), (72, 48425), (82, 48452), (86, 48461), (89, 48479), (105, 48551), (153, 48692), (161, 48713),