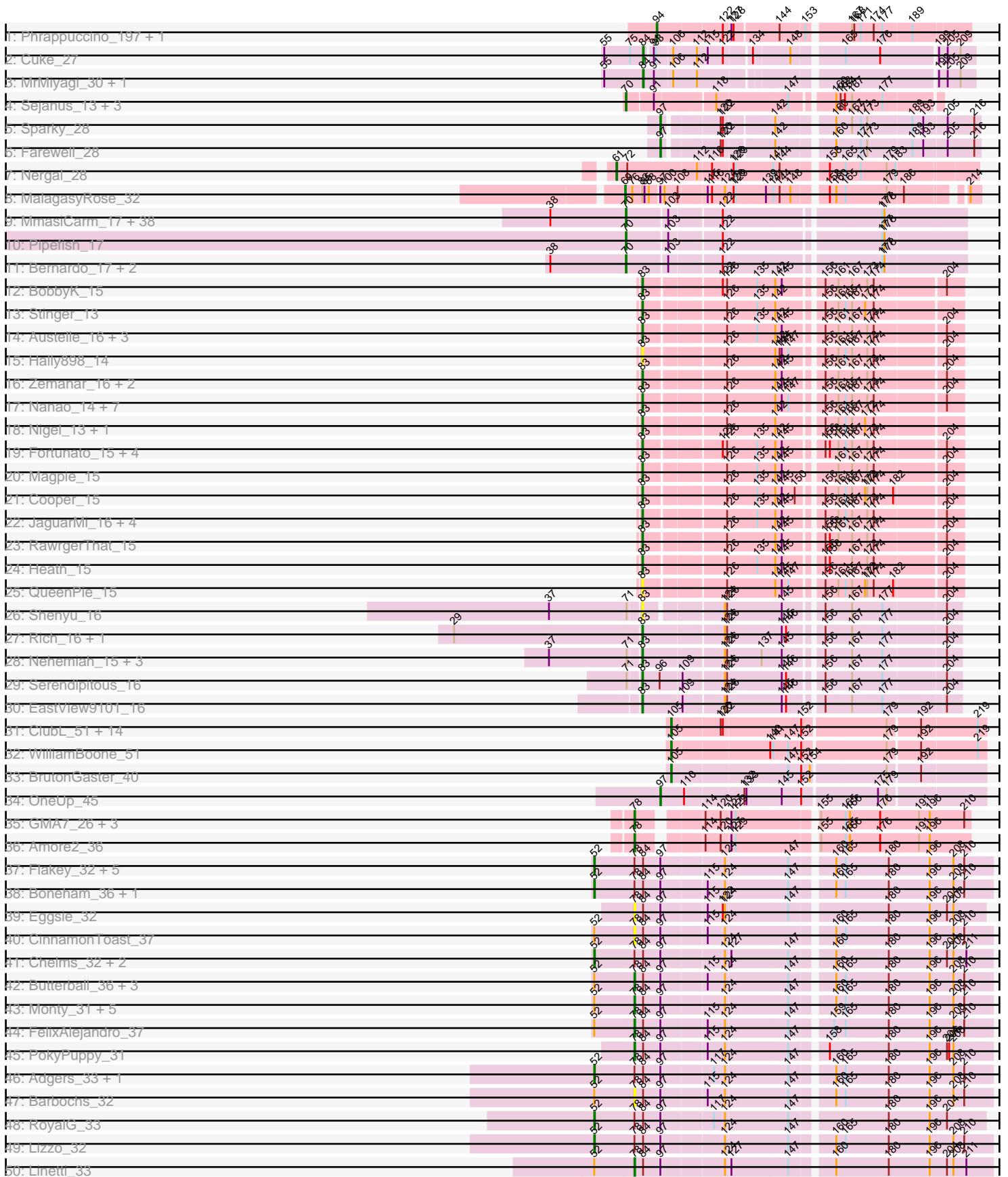
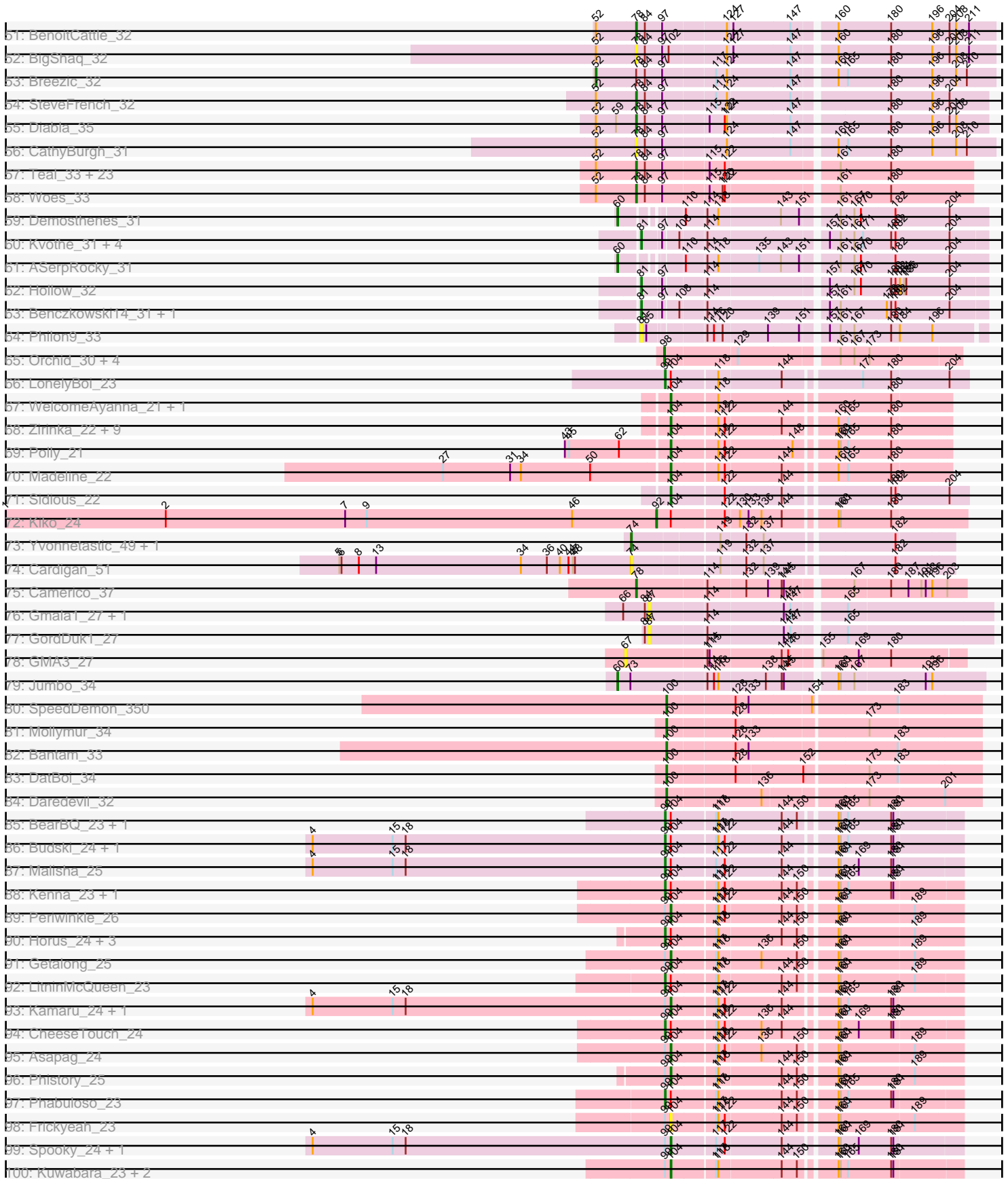


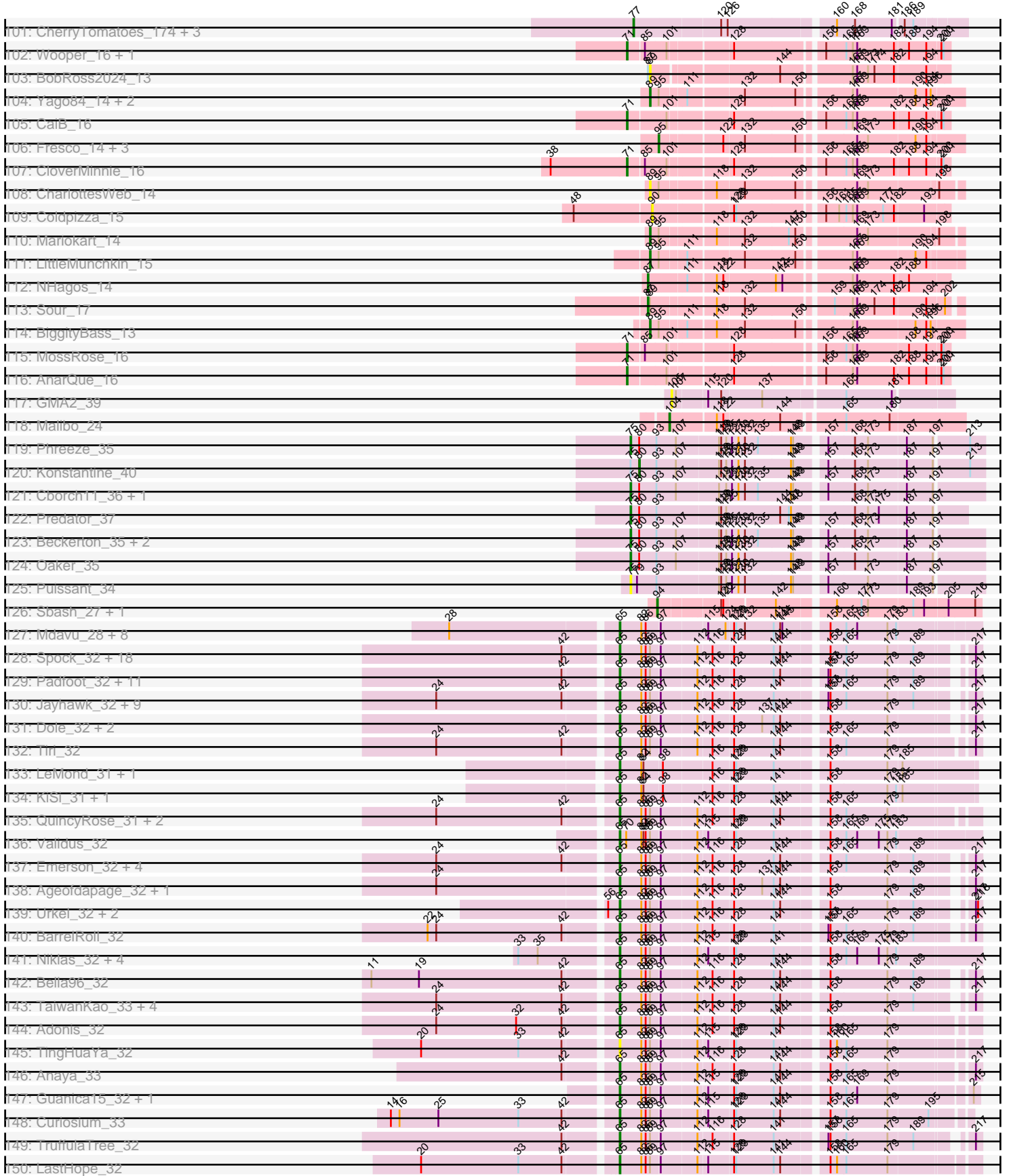
Pham 196182



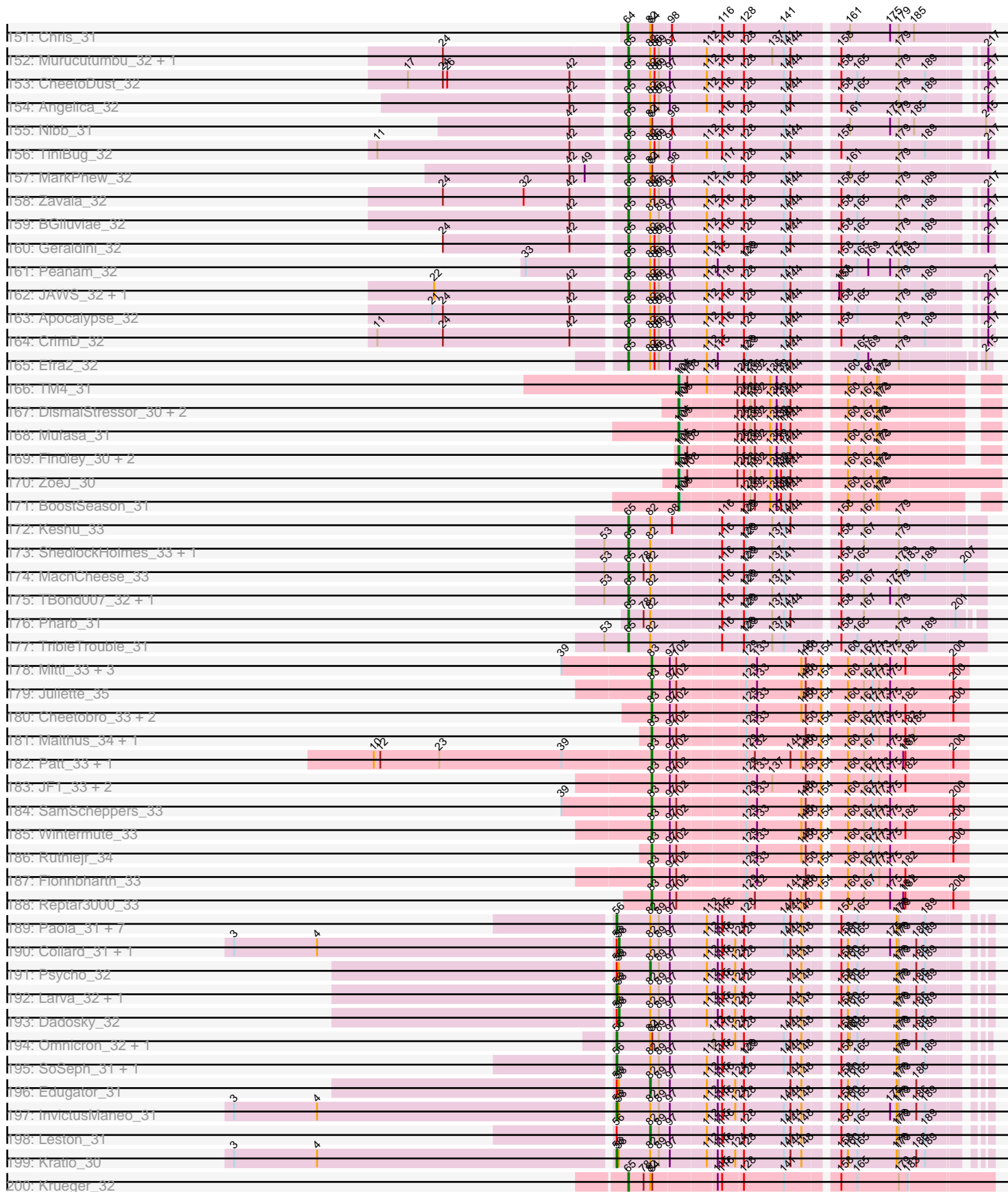
Pham 196182



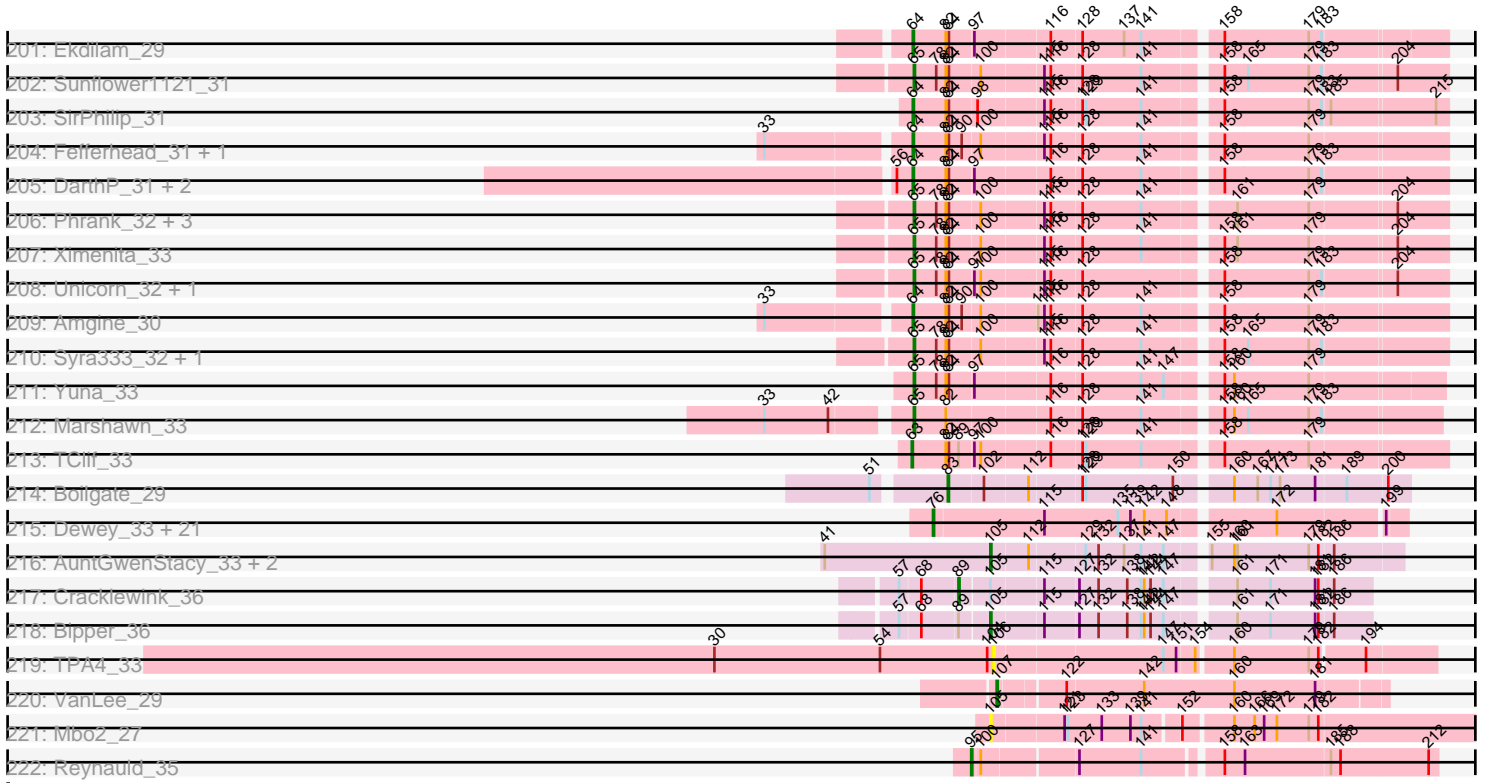
Pham 196182



Pham 196182



Pham 196182



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 196182 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196182 has 520 members, 53 are drafts.

Phages represented in each track:

- Track 1 : Phrappuccino_197, Settecandela_222
- Track 2 : Cuke_27
- Track 3 : MrMiyagi_30, Fowlmouth_30
- Track 4 : Sejanus_13, Mao1_12, Dori_13, Mask_13
- Track 5 : Sparky_28
- Track 6 : Farewell_28
- Track 7 : Nergal_28
- Track 8 : MalagasyRose_32
- Track 9 : MmasiCarm_17, Jackstina_16, Yinz_17, SynergyX_17, GlenHope_18, Audrey_17, Compostia_18, Neos5_17, Corofin_17, Briakila_17, Heathcliff_17, Baloo_17, Kronus_16, Halfpint_16, Daisy_17, Athena_18, RomaT_17, Nozo_17, ChaChing_17, Gervas_17, Philly_16, Rita1961_17, Morty007_17, Mortcellus_16, Casbah_16, RagingRooster_17, Kamiyu_17, Marley1013_17, OrangeOswald_17, Phlyer_17, Tydolla_17, LestyG_17, Chandler_17, Abinghost_17, Gadjet_18, Deenasa_17, Devonte_17, Obutu_17, Phayeta_17
- Track 10 : Pipefish_17
- Track 11 : Bernardo_17, Yahalom_17, Akoma_17
- Track 12 : BobbyK_15
- Track 13 : Stinger_13
- Track 14 : Austelle_16, Hydro_15, Fanaw_15, Hangman_15
- Track 15 : Hally898_14
- Track 16 : Zemanar_16, VioletZ_15, Waleliano_15
- Track 17 : Nanao_14, Lambano_14, ChrisnMich_14, Epah_14, Poster_14, Antihero_14, GinPorsche_14, Ahwei_14
- Track 18 : Nigel_13, JAMaL_15
- Track 19 : Fortunato_15, Apex_15, Mudslide_15, Frederick_15, Prince_15
- Track 20 : Magpie_15
- Track 21 : Cooper_15
- Track 22 : JaguarMi_16, Mithril_15, Lolalove_15, Xincheng_15, BrownCNA_16
- Track 23 : RawrgerThat_15
- Track 24 : Heath_15
- Track 25 : QueenPie_15
- Track 26 : Shenyu_16
- Track 27 : Rich_16, Bae_16
- Track 28 : Nehemiah_15, Phelemich_16, Mysterious_16, Reprobate_16
- Track 29 : Serendipitous_16
- Track 30 : EastView9101_16

- Track 31 : ClubL_51, Toniann_51, Aphelion_51, Bachita_53, Norvs_52, Lozinak_52, Abscondus_50, Smoothie_53, Geeche_50, Engineer_53, Miskis_53, Dusty_49, PhinkBoden_51, Cucurbita_53, Culver_51
- Track 32 : WilliamBoone_51
- Track 33 : BrutonGaster_40
- Track 34 : OneUp_45
- Track 35 : GMA7_26, GTE7_26, HayZem_35, Austin_36
- Track 36 : Amore2_36
- Track 37 : Flakey_32, Gorko_32, Sam12_32, GourdThymes_32, Ekhein_32, Hotorobo_32
- Track 38 : Boneham_36, BirksAndSocks_36
- Track 39 : Eggsie_32
- Track 40 : CinnamonToast_37
- Track 41 : Chelms_32, PierreThree_32, Dakiti_32
- Track 42 : Butterball_36, Jellybones_36, Msay19_37, Poland_37
- Track 43 : Monty_31, John316_36, Exiguo_32, RemRem_33, Beaver_36, Squibbles_31
- Track 44 : FelixAlejandro_37
- Track 45 : PokyPuppy_31
- Track 46 : Adgers_33, Sombrero_32
- Track 47 : Barbochs_32
- Track 48 : RoyalG_33
- Track 49 : Lizzo_32
- Track 50 : Linetti_33
- Track 51 : BenoitCattle_32
- Track 52 : BigShaq_32
- Track 53 : Breezic_32
- Track 54 : SteveFrench_32
- Track 55 : Diabla_35
- Track 56 : CathyBurgh_31
- Track 57 : Teal_33, Minos_34, Harambe_33, Anamika_33, Berries_33, MrWormie_33, Lidong_33, Guillaume_33, Lahirium_33, Shelley_33, Bianmat_33, Damp_33, Newt_34, Jams_33, Luker_34, Sticker17_33, Hail2Pitt_33, Hello_33, Charianelly_33, Jormungandr_33, Kaseim_34, Nimi13_33, Neovie_33, GalacticEye_33
- Track 58 : Woes_33
- Track 59 : Demosthenes_31
- Track 60 : Kvothe_31, Niagara_31, Teatealatte_31, Tredge_31, Teech_31
- Track 61 : ASerpRocky_31
- Track 62 : Hollow_32
- Track 63 : Benczkowski14_31, Katyusha_31
- Track 64 : Pilon9_33
- Track 65 : Orchid_30, Gibbles_29, PatrickStar_30, Kampe_30, RobinSparkles_33
- Track 66 : LonelyBoi_23
- Track 67 : WelcomeAyanna_21, ThankyouJordi_21
- Track 68 : Zirinka_22, Bialota_22, Nymphadora_22, Bosnia_22, Eviarto_22, BatStarr_22, TimTam_22, Ohgeesy_22, Herod_22, Hugley_22
- Track 69 : Polly_21
- Track 70 : Madeline_22
- Track 71 : Sidious_22
- Track 72 : Kiko_24
- Track 73 : Yvonnetastic_49, JonJames_51
- Track 74 : Cardigan_51

- Track 75 : Camerico_37
- Track 76 : Gmala1_27, GordTnk2_27
- Track 77 : GordDuk1_27
- Track 78 : GMA3_27
- Track 79 : Jumbo_34
- Track 80 : SpeedDemon_350
- Track 81 : Mollymur_34
- Track 82 : Bantam_33
- Track 83 : DatBoi_34
- Track 84 : Daredevil_32
- Track 85 : BearBQ_23, Birdsong_23
- Track 86 : Budski_24, Holliday_24
- Track 87 : Malisha_25
- Track 88 : Kenna_23, Lutum_24
- Track 89 : Periwinkle_26
- Track 90 : Horus_24, Crater_22, Leroy_24, Apricot_23
- Track 91 : Getalong_25
- Track 92 : LitninMcQueen_23
- Track 93 : Kamaru_24, Whitney_25
- Track 94 : CheeseTouch_24
- Track 95 : Asapag_24
- Track 96 : Phistory_25
- Track 97 : Phabuloso_23
- Track 98 : Frickyeah_23
- Track 99 : Spooky_24, Squiddly_26
- Track 100 : Kuwabara_23, MortyNRick_23, BENtherdunthat_24
- Track 101 : CherryTomatoes_174, Pupper_173, Skog_5, SCentae_172
- Track 102 : Wooper_16, MakoManhole_16
- Track 103 : BobRoss2024_13
- Track 104 : Yago84_14, Sisko_14, AnClar_14
- Track 105 : CaiB_16
- Track 106 : Fresco_14, Axumite_14, Shatter_14, Ligma_14
- Track 107 : CloverMinnie_16
- Track 108 : CharlottesWeb_14
- Track 109 : Coldpizza_15
- Track 110 : Mariokart_14
- Track 111 : LittleMunchkin_15
- Track 112 : NHagos_14
- Track 113 : Sour_17
- Track 114 : BiggityBass_13
- Track 115 : MossRose_16
- Track 116 : AnarQue_16
- Track 117 : GMA2_39
- Track 118 : Malibo_24
- Track 119 : Phreeze_35
- Track 120 : Konstantine_40
- Track 121 : Cborch11_36, Megatron06_37
- Track 122 : Predator_37
- Track 123 : Beckerton_35, Damien_35, Thumb_35
- Track 124 : Oaker_35
- Track 125 : Puissant_34
- Track 126 : Sbash_27, IdentityCrisis_27

- Track 127 : Mdavu_28, Enkosi_28, Amelie_28, Nikao_28, LilPharaoh_28, Binglebops_28, Torres_28, SgtBeansprout_28, Nutello_28
- Track 128 : Spock_32, Topper_32, Twitch_32, Llorens_32, Joy99_32, Dalmuri_32, Jeckyll_32, Peel_32, Belladonna_32, CREW_32, AlishaPH_32, Rosmarinus_32, Lunahalos_32, Sulley_32, Inky_32, Deby_32, Capricorn_32, Jarvi_32, YoureAdopted_31
- Track 129 : Padfoot_32, Asayake_32, CaseJules_32, Blizzard_32, Homura_32, Durfee_32, BEEST_32, BaghaKamala_32, Piatt_32, ShiaSurprise_32, Boiiii_32, Hyperbowlee_32
- Track 130 : Jayhawk_32, Slimphazie_32, ActinUp_32, HedwigODU_32, Veliki_32, Atiba_32, Adephagia_32, Tachez_32, Zabiza_32, Rapunzel97_32
- Track 131 : Dole_32, Devera_32, Illumine_32
- Track 132 : Tiri_32
- Track 133 : LeMond_31, Oscar_31
- Track 134 : KiSi_31, Scarlett_31
- Track 135 : QuincyRose_31, MeaningOfLife_32, Ganymede_33
- Track 136 : Validus_32
- Track 137 : Emerson_32, Padpat_32, Mynx_32, Beezoo_32, Pokerus_31
- Track 138 : Ageofdapage_32, Stinson_33
- Track 139 : Urkel_32, SamuelLPlaqson_32, DrHayes_32
- Track 140 : BarrelRoll_32
- Track 141 : Niklas_32, McMater_32, Richo_32, Dartin_32, Shaobing_32
- Track 142 : Bella96_32
- Track 143 : TaiwanKao_33, Prithvi_32, LindNT_32, TreyKay_32, Megsy_32
- Track 144 : Adonis_32
- Track 145 : TingHuaYa_32
- Track 146 : Anaya_33
- Track 147 : Guanica15_32, Yunkel11_32
- Track 148 : Curiosium_33
- Track 149 : TruffulaTree_32
- Track 150 : LastHope_32
- Track 151 : Chris_31
- Track 152 : Murucutumbu_32, LaterM_32
- Track 153 : CheetoDust_32
- Track 154 : Angelica_32
- Track 155 : Nibb_31
- Track 156 : TiniBug_32
- Track 157 : MarkPheW_32
- Track 158 : Zavala_32
- Track 159 : BGlluviae_32
- Track 160 : Geraldini_32
- Track 161 : Peanam_32
- Track 162 : JAWS_32, Ramen_32
- Track 163 : Apocalypse_32
- Track 164 : CrimD_32
- Track 165 : Efra2_32
- Track 166 : TM4_31
- Track 167 : DismalStressor_30, Marcoliusprime_30, DismalFunk_30
- Track 168 : Mufasa_31
- Track 169 : Findley_30, Strobilo_30, Milly_30
- Track 170 : ZoeJ_30
- Track 171 : BoostSeason_31
- Track 172 : Keshu_33

- Track 173 : ShedlockHolmes_33, Hurricane_33
- Track 174 : MacnCheese_33
- Track 175 : TBond007_32, Pixie_32
- Track 176 : Pharb_31
- Track 177 : TripleTrouble_31
- Track 178 : Mitti_33, Eponine_35, OmniCritical_33, Taquito_33
- Track 179 : Juliette_35
- Track 180 : Cheetobro_33, Chancellor_33, Slarp_33
- Track 181 : Malthus_34, Kraw_34
- Track 182 : Patt_33, MissDaisy_33
- Track 183 : JF1_33, Y2_33, Y10_33
- Track 184 : SamScheppers_33
- Track 185 : Wintermute_33
- Track 186 : Ruthiejr_34
- Track 187 : Fionnbharth_33
- Track 188 : Reptar3000_33
- Track 189 : Paola_31, Thyatira_31, Feyre_31, OkiRoe_31, Waterfoul_31, Gengar_31, Miryou_31, Guillsminger_31
- Track 190 : Collard_31, Agent47_31
- Track 191 : Psycho_32
- Track 192 : Larva_32, AlleyCat_32
- Track 193 : Dadosky_32
- Track 194 : Omnicron_32, Rando14_32
- Track 195 : SoSeph_31, Heftyboy_31
- Track 196 : Edugator_31
- Track 197 : InvictusManeo_31
- Track 198 : Leston_31
- Track 199 : Kratio_30
- Track 200 : Krueger_32
- Track 201 : Ekdilam_29
- Track 202 : Sunflower1121_31
- Track 203 : SirPhilip_31
- Track 204 : Fefferhead_31, Ellie_29
- Track 205 : DarthP_31, Amohnition_31, Hammy_31
- Track 206 : Phrank_32, Bryler_32, Tierra_32, Cain_32
- Track 207 : Ximenita_33
- Track 208 : Unicorn_32, PhelpsODU_32
- Track 209 : Amgine_30
- Track 210 : Syra333_32, Shadow1_31
- Track 211 : Yuna_33
- Track 212 : Marshawn_33
- Track 213 : TClif_33
- Track 214 : Boilgate_29
- Track 215 : Dewey_33, Forge_33, Hail_33, Kinbote_34, OBUpride_34, Luna22_33, Hadrien_34, HH92_33, Wishmaker_33, Amymech_34, Gancho_33, Webster2_34, Luke_34, Amochick_34, Giles_33, LilHazelnut_34, DeepSoil15_34, Gravailia_33, Ubuntu_34, Evanesce_33, Ein37_34, Daegal_35
- Track 216 : AuntGwenStacy_33, Hilltopfarm_33, Typha_33
- Track 217 : Cracklewink_36
- Track 218 : Bipper_36
- Track 219 : TPA4_33
- Track 220 : VanLee_29
- Track 221 : Mbo2_27

- Track 222 : Reynauld_35

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

The start number called the most often in the published annotations is 65, it was called in 123 of the 467 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_32, Adephegia_32, Adonis_32, Ageofdapage_32, AlishaPH_32, Amelie_28, Anaya_33, Angelica_32, Apocalypse_32, Asayake_32, Atiba_32, BEEST_32, BGIlluviae_32, BaghaKamala_32, BarrelRoll_32, Beezoo_32, Bella96_32, Belladonna_32, Biglebops_28, Blizzard_32, Boiiii_32, Bryler_32, CREW_32, Cain_32, Capricorn_32, CaseJules_32, CheetoDust_32, CrimD_32, Curiosium_33, Dalmuri_32, Dartin_32, Deby_32, Devera_32, Dole_32, DrHayes_32, Durfee_32, Efra2_32, Emerson_32, Enkosi_28, Ganymede_33, Geraldini_32, Guanica15_32, HedwigODU_32, Homura_32, Hurricane_33, Hyperbowlee_32, Illumine_32, Inky_32, JAWS_32, Jarvi_32, Jayhawk_32, Jeckyll_32, Joy99_32, Keshu_33, KiSi_31, Krueger_32, LastHope_32, LaterM_32, LeMond_31, LilPharaoh_28, LindNT_32, Llorens_32, Lunahalos_32, MacnCheese_33, MarkPhew_32, Marshawn_33, McMater_32, Mdavu_28, MeaningOfLife_32, Megsy_32, Murucutumbu_32, Mynx_32, Nibb_31, Nikao_28, Niklas_32, Nutello_28, Oscar_31, Padfoot_32, Padpat_32, Peanam_32, Peel_32, Pharb_31, PhelpsODU_32, Phrank_32, Piatt_32, Pixie_32, Pokerus_31, Prithvi_32, QuincyRose_31, Ramen_32, Rapunzel97_32, Richo_32, Rosmarinus_32, SamuelLPlaqson_32, Scarlett_31, SgtBeansprout_28, Shadow1_31, Shaobing_32, ShedlockHolmes_33, ShiaSurprise_32, Slimphazie_32, Spock_32, Stinson_33, Sulley_32, Sunflower1121_31, Syra333_32, TBond007_32, Tachez_32, TaiwanKao_33, Tierra_32, TingHuaYa_32, TiniBug_32, Tiri_32, Topper_32, Torres_28, TreyKay_32, TribbleTrouble_31, TruffulaTree_32, Twitch_32, Unicorn_32, Urkel_32, Validus_32, Veliki_32, Ximenita_33, YoureAdopted_31, Yuna_33, Yunkel11_32, Zabiza_32, Zavala_32,

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

-

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

- ASerpRocky_31, Abinghost_17, Abscondus_50, Adgers_33, Agent47_31, Ahwei_14, Akoma_17, AlleyCat_32, Amgine_30, Amochick_34, Amohnition_31, Amore2_36, Amymech_34, AnClar_14, Anamika_33, AnarQue_16, Antihero_14, Apex_15, Aphelion_51, Apricot_23, Asapag_24, Athena_18, Audrey_17, AuntGwenStacy_33, Austelle_16, Austin_36, Axumite_14, BENtherdunthat_24, Bachita_53, Bae_16, Baloo_17, Bantam_33, Barbochs_32, BatStarr_22, BearBQ_23, Beaver_36, Beckerton_35, Benczkowski14_31, BenoitCattle_32, Bernardo_17, Berries_33, Bialota_22, Bianmat_33, BigShaq_32, BiggityBass_13, Bipper_36, Birdsong_23, BirksAndSocks_36, BobRoss2024_13, BobbyK_15, Boilgate_29, Boneham_36, BoostSeason_31, Bosnia_22, Breezic_32, Briakila_17, BrownCNA_16, BrutonGaster_40, Budski_24, Butterball_36, CaiB_16, Camerico_37, Cardigan_51, Casbah_16, CathyBurgh_31, Cborch11_36, ChaChing_17, Chancellor_33, Chandler_17, Charianelly_33, CharlottesWeb_14, CheeseTouch_24, Cheetobro_33, Chelms_32, CherryTomatoes_174, Chris_31, ChrisnMich_14,

CinnamonToast_37, CloverMinnie_16, ClubL_51, Coldpizza_15, Collard_31, Compostia_18, Cooper_15, Corofin_17, Cracklewink_36, Crater_22, Cucurbita_53, Cuke_27, Culver_51, Dadosky_32, Daegal_35, Daisy_17, Dakiti_32, Damien_35, Damp_33, Daredevil_32, DarthP_31, DatBoi_34, Deenasa_17, DeepSoil15_34, Demosthenes_31, Devonte_17, Dewey_33, Diabla_35, DismalFunk_30, DismalStressor_30, Dori_13, Dusty_49, EastView9101_16, Edugator_31, Eggsie_32, Ein37_34, Ekdilam_29, Ekhein_32, Ellie_29, Engineer_53, Epah_14, Eponine_35, Evanesce_33, Eviarto_22, Exiguo_32, Fanaw_15, Farewell_28, Fefferhead_31, FelixAlejandro_37, Feyre_31, Findley_30, Fionnbharth_33, Flakey_32, Forge_33, Fortunato_15, Fowlmouth_30, Frederick_15, Fresco_14, Frickyeah_23, GMA2_39, GMA3_27, GMA7_26, GTE7_26, Gadget_18, GalacticEye_33, Gancho_33, Geeche_50, Gengar_31, Gervas_17, Getalong_25, Gibbles_29, Giles_33, GinPorsche_14, GlenHope_18, Gmala1_27, GordDuk1_27, GordTnk2_27, Gorko_32, GourdThymes_32, Gravallia_33, Guillaume_33, Guillsminger_31, HH92_33, Hadrien_34, Hail2Pitt_33, Hail_33, Halfpint_16, Hally898_14, Hammy_31, Hangman_15, Harambe_33, HayZem_35, Heath_15, Heathcliff_17, Heftyboy_31, Hello_33, Herod_22, Hilltopfarm_33, Holliday_24, Hollow_32, Horus_24, Hotorobo_32, Hugley_22, Hydro_15, IdentityCrisis_27, InvictusManeo_31, JAMaL_15, JF1_33, Jackstina_16, JaguarMi_16, Jams_33, Jellybones_36, John316_36, JonJames_51, Jormungandr_33, Juliette_35, Jumbo_34, Kamaru_24, Kamiyu_17, Kampe_30, Kaseim_34, Katyusha_31, Kenna_23, Kiko_24, Kinbote_34, Konstantine_40, Kratio_30, Kraw_34, Kronus_16, Kuwabara_23, Kvothe_31, Lahirium_33, Lambano_14, Larva_32, Leroy_24, Leston_31, LestyG_17, Lidong_33, Ligma_14, LilHazelNut_34, Linetti_33, LitninMcQueen_23, LittleMunchkin_15, Lizzo_32, Lolalove_15, LonelyBoi_23, Lozinak_52, Luke_34, Luker_34, Luna22_33, Lutum_24, Madeline_22, Magpie_15, MakoManhole_16, MalagasyRose_32, Malibo_24, Malisha_25, Malthus_34, Mao1_12, Marcoliusprime_30, Mariokart_14, Marley1013_17, Mask_13, Mbo2_27, Megatron06_37, Milly_30, Minos_34, Miryou_31, Miskis_53, MissDaisy_33, Mithril_15, Mitti_33, MmasiCarm_17, Mollymur_34, Monty_31, Mortcellus_16, Morty007_17, MortyNRick_23, MossRose_16, MrMiyagi_30, MrWormie_33, Msay19_37, Mudslide_15, Mufasa_31, Mysterious_16, NHagos_14, Nanao_14, Nehemiah_15, Neoevie_33, Neos5_17, Nergal_28, Newt_34, Niagara_31, Nigel_13, Nimi13_33, Norvs_52, Nozo_17, Nymphadora_22, OBUpride_34, Oaker_35, Obutu_17, Ohgeesy_22, OkiRoe_31, OmniCritical_33, Omnicron_32, OneUp_45, OrangeOswald_17, Orchid_30, Paola_31, PatrickStar_30, Patt_33, Periwinkle_26, Phabuloso_23, Phayeta_17, Phelemich_16, Philly_16, Philon9_33, PhinkBoden_51, Phistory_25, Phlyer_17, Phrappuccino_197, Phreeze_35, PierreThree_32, Pipefish_17, PokyPuppy_31, Poland_37, Polly_21, Poster_14, Predator_37, Prince_15, Psycho_32, Puissant_34, Pupper_173, QueenPie_15, RagingRooster_17, Rando14_32, RawrgerThat_15, RemRem_33, Reprobate_16, Reptar3000_33, Reynauld_35, Rich_16, Rita1961_17, RobinSparkles_33, RomaT_17, RoyalG_33, Ruthiejr_34, SCentae_172, Sam12_32, SamScheppers_33, Sbash_27, Sejanus_13, Serendipitous_16, Settecandela_222, Shatter_14, Shelley_33, Shenyu_16, Sidious_22, SirPhilip_31, Sisko_14, Skog_5, Slarp_33, Smoothie_53, SoSeph_31, Sombrero_32, Sour_17, Sparky_28, SpeedDemon_350, Spooky_24, Squibbles_31, Squiddly_26, SteveFrench_32, Sticker17_33, Stinger_13, Strobilo_30, SynergyX_17, TClif_33, TM4_31, TPA4_33, Taquito_33, Teal_33, Teatealatte_31, Teech_31, ThankyouJordi_21, Thumb_35, Thyatira_31, TimTam_22, Toniann_51, Tredge_31, Tydolla_17, Typha_33, Ubuntu_34, VanLee_29, VioletZ_15, Waleliano_15, Waterfoul_31, Webster2_34, WelcomeAyanna_21, Whitney_25, WilliamBoone_51, Wintermute_33, Wishmaker_33, Woes_33, Wooper_16, Xincheng_15, Y10_33, Y2_33, Yago84_14, Yahalom_17, Yinz_17, Yvonnetastic_49, Zemanar_16, Zirinka_22, ZoeJ_30,

Summary by start number:

Start 52:

- Found in 60 of 520 (11.5%) of genes in pham
- Manual Annotations of this start: 16 of 467
- Called 26.7% of time when present
- Phage (with cluster) where this start called: Adgers_33 (CS2), BirksAndSocks_36 (CS2), Boneham_36 (CS2), Breezic_32 (CS2), Chelms_32 (CS2), Dakiti_32 (CS2), Ekhein_32 (CS2), Flakey_32 (CS2), Gorko_32 (CS2), GourdThymes_32 (CS2), Hotorobo_32 (CS2), Lizzo_32 (CS2), PierreThree_32 (CS2), RoyalG_33 (CS2), Sam12_32 (CS2), Sombrero_32 (CS2),

Start 56:

- Found in 28 of 520 (5.4%) of genes in pham
- Manual Annotations of this start: 16 of 467
- Called 57.1% of time when present
- Phage (with cluster) where this start called: AlleyCat_32 (K5), Feyre_31 (K5), Gengar_31 (K5), Guillsminger_31 (K5), Heftyboy_31 (K5), InvictusManeo_31 (K5), Kratio_30 (K5), Larva_32 (K5), Miryou_31 (K5), OkiRoe_31 (K5), Omnicron_32 (K5), Paola_31 (K5), Rando14_32 (K5), SoSeph_31 (K5), Thyatira_31 (K5), Waterfoul_31 (K5),

Start 58:

- Found in 9 of 520 (1.7%) of genes in pham
- Manual Annotations of this start: 3 of 467
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Agent47_31 (K5), Collard_31 (K5), Dadosky_32 (K5),

Start 60:

- Found in 3 of 520 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_31 (CS4), Demosthenes_31 (CS4), Jumbo_34 (DF3),

Start 61:

- Found in 1 of 520 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nergal_28 (AG),

Start 63:

- Found in 1 of 520 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TClif_33 (K6),

Start 64:

- Found in 9 of 520 (1.7%) of genes in pham
- Manual Annotations of this start: 9 of 467
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Amgine_30 (K6), Amohnition_31 (K6), Chris_31 (K1), DarthP_31 (K6), Ekdilam_29 (K6), Ellie_29 (K6), Fefferhead_31 (K6), Hammy_31 (K6), SirPhilip_31 (K6),

Start 65:

- Found in 129 of 520 (24.8%) of genes in pham
- Manual Annotations of this start: 123 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_32 (K1), Adephagia_32 (K1), Adonis_32 (K1), Ageofdapage_32 (K1), AlishaPH_32 (K1), Amelie_28 (K1), Anaya_33 (K1), Angelica_32 (K1), Apocalypse_32 (K1), Asayake_32 (K1), Atiba_32 (K1), BEEST_32 (K1), BGlluviae_32 (K1), BaghaKamala_32 (K1), BarrelRoll_32 (K1), Beezoo_32 (K1), Bella96_32 (K1), Belladonna_32 (K1), Binglebops_28 (K1), Blizzard_32 (K1), Boiiii_32 (K1), Bryler_32 (K6), CREW_32 (K1), Cain_32 (K6), Capricorn_32 (K1), CaseJules_32 (K1), CheetoDust_32 (K1), CrimD_32 (K1), Curiosium_33 (K1), Dalmuri_32 (K1), Dartin_32 (K1), Deby_32 (K1), Devera_32 (K1), Dole_32 (K1), DrHayes_32 (K1), Durfee_32 (K1), Efra2_32 (K1), Emerson_32 (K1), Enkosi_28 (K1), Ganymede_33 (K1), Geraldini_32 (K1), Guanica15_32 (K1), HedwigODU_32 (K1), Homura_32 (K1), Hurricane_33 (K3), Hyperbowlee_32 (K1), Illumine_32 (K1), Inky_32 (K1), JAWS_32 (K1), Jarvi_32 (K1), Jayhawk_32 (K1), Jeckyll_32 (K1), Joy99_32 (K1), Keshu_33 (K3), KiSi_31 (K1), Krueger_32 (K6), LastHope_32 (K1), LaterM_32 (K1), LeMond_31 (K1), LilPharaoh_28 (K1), LindNT_32 (K1), Llorens_32 (K1), Lunahalos_32 (K1), MacnCheese_33 (K3), MarkPhew_32 (K1), Marshawn_33 (K6), McMater_32 (K1), Mdavu_28 (K1), MeaningOfLife_32 (K1), Megsy_32 (K1), Murucutumbu_32 (K1), Mynx_32 (K1), Nibb_31 (K1), Nikao_28 (K1), Niklas_32 (K1), Nutello_28 (K1), Oscar_31 (K1), Padfoot_32 (K1), Padpat_32 (K1), Peanam_32 (K1), Peel_32 (K1), Pharb_31 (K3), PhelpsODU_32 (K6), Phrank_32 (K6), Piatt_32 (K1), Pixie_32 (K3), Pokerus_31 (K1), Prithvi_32 (K1), QuincyRose_31 (K1), Ramen_32 (K1), Rapunzel97_32 (K1), Richo_32 (K1), Rosmarinus_32 (K1), SamuelLPlaqson_32 (K1), Scarlett_31 (K1), SgtBeansprout_28 (K1), Shadow1_31 (K6), Shaobing_32 (K1), ShedlockHolmes_33 (K3), ShiaSurprise_32 (K1), Slimphazie_32 (K1), Spock_32 (K1), Stinson_33 (K1), Sulley_32 (K1), Sunflower1121_31 (K6), Syra333_32 (K6), TBond007_32 (K3), Tachez_32 (K1), TaiwanKao_33 (K1), Tierra_32 (K6), TingHuaYa_32 (K1), TiniBug_32 (K1), Tiri_32 (K1), Topper_32 (K1), Torres_28 (K1), TreyKay_32 (K1), TripleTrouble_31 (K3), TruffulaTree_32 (K1), Twitch_32 (K1), Unicorn_32 (K6), Urkel_32 (K1), Validus_32 (K1), Veliki_32 (K1), Ximenita_33 (K6), YoureAdopted_31 (K1), Yuna_33 (K6), Yunkel11_32 (K1), Zabiza_32 (K1), Zavala_32 (K1),

Start 67:

- Found in 1 of 520 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA3_27 (DF2),

Start 69:

- Found in 1 of 520 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_32 (AG),

Start 70:

- Found in 48 of 520 (9.2%) of genes in pham

- Manual Annotations of this start: 47 of 467
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Abinghost_17 (B3), Akoma_17 (B3), Athena_18 (B3), Audrey_17 (B3), Baloo_17 (B3), Bernardo_17 (B3), Briakila_17 (B3), Casbah_16 (B3), ChaChing_17 (B3), Chandler_17 (B3), Compostia_18 (B3), Corofin_17 (B3), Daisy_17 (B3), Deenasa_17 (B3), Devonte_17 (B3), Dori_13 (AD), Gadget_18 (B3), Gervas_17 (B3), GlenHope_18 (B3), Halfpint_16 (B3), Heathcliff_17 (B3), Jackstina_16 (B3), Kamiyu_17 (B3), Kronus_16 (B3), LestyG_17 (B3), Mao1_12 (AD), Marley1013_17 (B3), Mask_13 (AD), MmasiCarm_17 (B3), Mortcellus_16 (B3), Morty007_17 (B3), Neos5_17 (B3), Nozo_17 (B3), Obutu_17 (B3), OrangeOswald_17 (B3), Phayeta_17 (B3), Philly_16 (B3), Phlyer_17 (B3), Pipefish_17 (B3), RagingRooster_17 (B3), Rita1961_17 (B3), RomaT_17 (B3), Sejanus_13 (AD), SynergyX_17 (B3), Tydolla_17 (B3), Yahalom_17 (B3), Yinz_17 (B3),

Start 71:

- Found in 12 of 520 (2.3%) of genes in pham
- Manual Annotations of this start: 6 of 467
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AnarQue_16 (DR), CaiB_16 (DR), CloverMinnie_16 (DR), MakoManhole_16 (DR), MossRose_16 (DR), Wooper_16 (DR),

Start 74:

- Found in 3 of 520 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_51 (DD), JonJames_51 (DD), Yvonnestic_49 (DD),

Start 75:

- Found in 11 of 520 (2.1%) of genes in pham
- Manual Annotations of this start: 8 of 467
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Beckerton_35 (H1), Cborch11_36 (H1), Damien_35 (H1), Megatron06_37 (H1), Oaker_35 (H1), Phreeze_35 (H1), Predator_37 (H1), Puissant_34 (H1), Thumb_35 (H1),

Start 76:

- Found in 23 of 520 (4.4%) of genes in pham
- Manual Annotations of this start: 22 of 467
- Called 95.7% of time when present
- Phage (with cluster) where this start called: Amochick_34 (Q), Amymech_34 (Q), Daegal_35 (Q), DeepSoil15_34 (Q), Dewey_33 (Q), Ein37_34 (Q), Evanesce_33 (Q), Forge_33 (Q), Gancho_33 (Q), Giles_33 (Q), Gravallia_33 (Q), HH92_33 (Q), Hadrien_34 (Q), Hail_33 (Q), Kinbote_34 (Q), LilHazelNut_34 (Q), Luke_34 (Q), Luna22_33 (Q), OBUpride_34 (Q), Ubuntu_34 (Q), Webster2_34 (Q), Wishmaker_33 (Q),

Start 77:

- Found in 4 of 520 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 467
- Called 100.0% of time when present

- Phage (with cluster) where this start called: CherryTomatoes_174 (DO), Pupper_173 (DO), SCentae_172 (DO), Skog_5 (DO),

Start 78:

- Found in 82 of 520 (15.8%) of genes in pham
- Manual Annotations of this start: 43 of 467
- Called 63.4% of time when present
- Phage (with cluster) where this start called: Amore2_36 (CS1), Anamika_33 (CS3), Austin_36 (CS1), Barbochs_32 (CS2), Beaver_36 (CS2), BenoitCattle_32 (CS2), Berries_33 (CS3), Bianmat_33 (CS3), BigShaq_32 (CS2), Butterball_36 (CS2), Camerico_37 (DF), CathyBurgh_31 (CS2), Charianelly_33 (CS3), CinnamonToast_37 (CS2), Damp_33 (CS3), Diabla_35 (CS2), Eggsie_32 (CS2), Exiguo_32 (CS2), FelixAlejandro_37 (CS2), GMA7_26 (CS1), GTE7_26 (CS1), GalacticEye_33 (CS3), Guillaume_33 (CS3), Hail2Pitt_33 (CS3), Harambe_33 (CS3), HayZem_35 (CS1), Hello_33 (CS3), Jams_33 (CS3), Jellybones_36 (CS2), John316_36 (CS2), Jormungandr_33 (CS3), Kaseim_34 (CS3), Lahirium_33 (CS3), Lidong_33 (CS3), Linetti_33 (CS2), Luker_34 (CS3), Minos_34 (CS3), Monty_31 (CS2), MrWormie_33 (CS3), Msay19_37 (CS2), Neoevie_33 (CS3), Newt_34 (CS3), Nimi13_33 (CS3), PokyPuppy_31 (CS2), Poland_37 (CS2), RemRem_33 (CS2), Shelley_33 (CS3), Squibbles_31 (CS2), SteveFrench_32 (CS2), Sticker17_33 (CS3), Teal_33 (CS3), Woes_33 (CS3),

Start 80:

- Found in 9 of 520 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 467
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Konstantine_40 (H1),

Start 81:

- Found in 9 of 520 (1.7%) of genes in pham
- Manual Annotations of this start: 7 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Benczkowski14_31 (CS4), Hollow_32 (CS4), Katyusha_31 (CS4), Kvothe_31 (CS4), Niagara_31 (CS4), Philon9_33 (CS4), Teatealatte_31 (CS4), Teech_31 (CS4), Tredge_31 (CS4),

Start 82:

- Found in 161 of 520 (31.0%) of genes in pham
- Manual Annotations of this start: 3 of 467
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Edugator_31 (K5), Leston_31 (K5), Psycho_32 (K5),

Start 83:

- Found in 66 of 520 (12.7%) of genes in pham
- Manual Annotations of this start: 49 of 467
- Called 98.5% of time when present
- Phage (with cluster) where this start called: Ahwei_14 (B4), Antihero_14 (B4), Apex_15 (B4), Austelle_16 (B4), Bae_16 (B5), BobbyK_15 (B4), Boilgate_29 (K8), BrownCNA_16 (B4), Chancellor_33 (K4), Cheetobro_33 (K4), ChrisnMich_14 (B4), Cooper_15 (B4), EastView9101_16 (B5), Epah_14 (B4), Eponine_35 (K4), Fanaw_15 (B4), Fionnbharth_33 (K4), Fortunato_15 (B4), Frederick_15 (B4), GinPorsche_14 (B4), Hally898_14 (B4), Hangman_15 (B4), Heath_15 (B4), Hydro_15 (B4),

JAMaL_15 (B4), JF1_33 (K4), JaguarMi_16 (B4), Juliette_35 (K4), Kraw_34 (K4), Lambano_14 (B4), Lolalove_15 (B4), Magpie_15 (B4), Malthus_34 (K4), MissDaisy_33 (K4), Mithril_15 (B4), Mitti_33 (K4), Mudslide_15 (B4), Mysterious_16 (B5), Nanao_14 (B4), Nehemiah_15 (B5), Nigel_13 (B4), OmniCritical_33 (K4), Patt_33 (K4), Phelemich_16 (B5), Poster_14 (B4), Prince_15 (B4), QueenPie_15 (B4), RawrgerThat_15 (B4), Reprobate_16 (B5), Reptar3000_33 (K4), Rich_16 (B5), Ruthiejr_34 (K4), SamScheppers_33 (K4), Serendipitous_16 (B5), Shenyu_16 (B5), Slarp_33 (K4), Stinger_13 (B4), Taquito_33 (K4), VioletZ_15 (B4), Waleliano_15 (B4), Wintermute_33 (K4), Xincheng_15 (B4), Y10_33 (K4), Y2_33 (K4), Zemanar_16 (B4),

Start 84:

- Found in 99 of 520 (19.0%) of genes in pham
- Manual Annotations of this start: 3 of 467
- Called 3.0% of time when present
- Phage (with cluster) where this start called: Cuke_27 (AC), Fowlmouth_30 (AC), MrMiyagi_30 (AC),

Start 87:

- Found in 6 of 520 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 467
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Gmala1_27 (DF1), GordDuk1_27 (DF1), GordTnk2_27 (DF1), NHagos_14 (DR), Sour_17 (DR),

Start 89:

- Found in 127 of 520 (24.4%) of genes in pham
- Manual Annotations of this start: 7 of 467
- Called 7.1% of time when present
- Phage (with cluster) where this start called: AnClar_14 (DR), BiggityBass_13 (DR), BobRoss2024_13 (DR), CharlottesWeb_14 (DR), Cracklewink_36 (Y), LittleMunchkin_15 (DR), Mariokart_14 (DR), Sisko_14 (DR), Yago84_14 (DR),

Start 90:

- Found in 4 of 520 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Coldpizza_15 (DR),

Start 92:

- Found in 1 of 520 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kiko_24 (DB),

Start 94:

- Found in 4 of 520 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 467
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IdentityCrisis_27 (singleton), Phrappuccino_197 (AA), Sbash_27 (I2), Settecandela_222 (AA),

Start 95:

- Found in 12 of 520 (2.3%) of genes in pham
- Manual Annotations of this start: 5 of 467
- Called 41.7% of time when present
- Phage (with cluster) where this start called: Axumite_14 (DR), Fresco_14 (DR), Ligma_14 (DR), Reynauld_35 (singleton), Shatter_14 (DR),

Start 97:

- Found in 226 of 520 (43.5%) of genes in pham
- Manual Annotations of this start: 3 of 467
- Called 1.3% of time when present
- Phage (with cluster) where this start called: Farewell_28 (AF), OneUp_45 (CQ2), Sparky_28 (AF),

Start 98:

- Found in 14 of 520 (2.7%) of genes in pham
- Manual Annotations of this start: 5 of 467
- Called 35.7% of time when present
- Phage (with cluster) where this start called: Gibbles_29 (CX), Kampe_30 (CX), Orchid_30 (CX), PatrickStar_30 (CX), RobinSparkles_33 (CX),

Start 99:

- Found in 27 of 520 (5.2%) of genes in pham
- Manual Annotations of this start: 15 of 467
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Apricot_23 (DN3), BearBQ_23 (DN), Birdsong_23 (DN), Budski_24 (DN), CheeseTouch_24 (DN1), Crater_22 (DN3), Holliday_24 (DN1), Horus_24 (DN1), Kenna_23 (DN1), Leroy_24 (DN1), LitninMcQueen_23 (DN1), LonelyBoi_23 (CY), Lutum_24 (DN1), Malisha_25 (DN), Phabuloso_23 (DN1),

Start 100:

- Found in 21 of 520 (4.0%) of genes in pham
- Manual Annotations of this start: 5 of 467
- Called 23.8% of time when present
- Phage (with cluster) where this start called: Bantam_33 (DL), Daredevil_32 (DL), DatBoi_34 (DL), Mollymur_34 (DL), SpeedDemon_350 (DL),

Start 104:

- Found in 55 of 520 (10.6%) of genes in pham
- Manual Annotations of this start: 35 of 467
- Called 69.1% of time when present
- Phage (with cluster) where this start called: Asapag_24 (DN1), BENtherdunthat_24 (DN1), BatStarr_22 (CZ1), Bialota_22 (CZ1), BoostSeason_31 (K2), Bosnia_22 (CZ1), DismalFunk_30 (K2), DismalStressor_30 (K2), Eviarto_22 (CZ1), Findley_30 (K2), Frickyeah_23 (DN1), Getalong_25 (DN1), Herod_22 (CZ1), Hugley_22 (CZ1), Kamaru_24 (DN1), Kuwabara_23 (DN4), Madeline_22 (CZ1), Malibo_24 (DW), Marcoliusprime_30 (K2), Milly_30 (K2), MortyNRick_23 (DN), Mufasa_31 (K2), Nymphadora_22 (CZ1), Ohgeesy_22 (CZ), Periwinkle_26 (DN1), Phistory_25 (DN1), Polly_21 (CZ1), Sidious_22 (CZ7), Spooky_24 (DN2), Squiddly_26 (DN2), Strobilo_30 (K2), TM4_31 (K2), ThankyouJordi_21 (CZ1), TimTam_22 (CZ1), WelcomeAyanna_21 (CZ1), Whitney_25 (DN1), Zirinka_22 (CZ1), ZoeJ_30 (K2),

Start 105:

- Found in 34 of 520 (6.5%) of genes in pham
- Manual Annotations of this start: 16 of 467
- Called 67.6% of time when present
- Phage (with cluster) where this start called: Abscondus_50 (CQ1), Aphelion_51 (CQ1), AuntGwenStacy_33 (Y), Bachita_53 (CQ1), Bipper_36 (Y), BrutonGaster_40 (CQ2), ClubL_51 (CQ1), Cucurbita_53 (CQ1), Culver_51 (CQ1), Dusty_49 (CQ1), Engineer_53 (CQ1), GMA2_39 (DS), Geeche_50 (CQ1), Hilltopfarm_33 (Y), Lozinak_52 (CQ1), Mbo2_27 (singleton), Miskis_53 (CQ1), Norvs_52 (CQ1), PhinkBoden_51 (CQ1), Smoothie_53 (CQ1), Toniann_51 (CQ1), Typha_33 (Y), WilliamBoone_51 (CQ1),

Start 106:

- Found in 4 of 520 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: TPA4_33 (singleton),

Start 107:

- Found in 10 of 520 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 467
- Called 10.0% of time when present
- Phage (with cluster) where this start called: VanLee_29 (singleton),

Summary by clusters:

There are 47 clusters represented in this pham: DN, DO, singleton, DF, DD, CZ1, DB, DL, K3, K2, K1, K6, K5, K4, DW, K8, DR, DS, I2, DF1, DF3, DF2, DN4, DN1, DN3, DN2, CS4, CQ1, CS1, CS3, CS2, AA, AC, AD, AG, AF, CZ7, Q, CZ, CY, CX, CQ2, Y, H1, B4, B5, B3,

Info for manual annotations of cluster AA:

- Start number 94 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AC:

- Start number 84 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster AD:

- Start number 70 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster AF:

- Start number 97 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:

- Start number 61 was manually annotated 1 time for cluster AG.
- Start number 69 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster B3:

- Start number 70 was manually annotated 43 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 83 was manually annotated 23 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 83 was manually annotated 6 times for cluster B5.

Info for manual annotations of cluster CQ1:

- Start number 105 was manually annotated 12 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 97 was manually annotated 1 time for cluster CQ2.
- Start number 105 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CS1:

- Start number 78 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 52 was manually annotated 16 times for cluster CS2.
- Start number 78 was manually annotated 15 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 78 was manually annotated 24 times for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 60 was manually annotated 2 times for cluster CS4.
- Start number 81 was manually annotated 7 times for cluster CS4.

Info for manual annotations of cluster CX:

- Start number 98 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster CY:

- Start number 99 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CZ:

- Start number 104 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 104 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster CZ7:

- Start number 104 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DB:

- Start number 92 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DD:

- Start number 74 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DF:

- Start number 78 was manually annotated 1 time for cluster DF.

Info for manual annotations of cluster DF3:

- Start number 60 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DL:

- Start number 100 was manually annotated 5 times for cluster DL.

Info for manual annotations of cluster DN:

- Start number 99 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 99 was manually annotated 8 times for cluster DN1.
- Start number 104 was manually annotated 7 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 104 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 99 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 104 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DO:

- Start number 77 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DR:

- Start number 71 was manually annotated 6 times for cluster DR.
- Start number 87 was manually annotated 2 times for cluster DR.
- Start number 89 was manually annotated 6 times for cluster DR.
- Start number 95 was manually annotated 4 times for cluster DR.

Info for manual annotations of cluster DW:

- Start number 104 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster H1:

- Start number 75 was manually annotated 8 times for cluster H1.
- Start number 80 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster I2:

- Start number 94 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster K1:

- Start number 64 was manually annotated 1 time for cluster K1.
- Start number 65 was manually annotated 102 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 104 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 65 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 83 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 56 was manually annotated 16 times for cluster K5.

- Start number 58 was manually annotated 3 times for cluster K5.
- Start number 82 was manually annotated 3 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 63 was manually annotated 1 time for cluster K6.
- Start number 64 was manually annotated 8 times for cluster K6.
- Start number 65 was manually annotated 13 times for cluster K6.

Info for manual annotations of cluster K8:

- Start number 83 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster Q:

- Start number 76 was manually annotated 22 times for cluster Q.

Info for manual annotations of cluster Y:

- Start number 89 was manually annotated 1 time for cluster Y.
- Start number 105 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: ASerpRocky_31 Start: 39045, Stop: 39497, Start Num: 60

Candidate Starts for ASerpRocky_31:

(Start: 60 @39045 has 3 MA's), (110, 39105), (114, 39132), (118, 39147), (135, 39201), (143, 39231), (151, 39255), (161, 39297), (167, 39315), (170, 39324), (182, 39369), (204, 39444),

Gene: Abinghost_17 Start: 14566, Stop: 15000, Start Num: 70

Candidate Starts for Abinghost_17:

(38, 14461), (Start: 70 @14566 has 47 MA's), (103, 14620), (122, 14686), (177, 14887), (178, 14890),

Gene: Abscondus_50 Start: 32639, Stop: 33046, Start Num: 105

Candidate Starts for Abscondus_50:

(Start: 105 @32639 has 16 MA's), (120, 32702), (122, 32705), (152, 32807), (179, 32918), (192, 32960), (219, 33035),

Gene: ActinUp_32 Start: 27346, Stop: 27786, Start Num: 65

Candidate Starts for ActinUp_32:

(24, 27109), (42, 27283), (Start: 65 @27346 has 123 MA's), (Start: 82 @27376 has 3 MA's), (86, 27382), (Start: 89 @27388 has 7 MA's), (Start: 97 @27400 has 3 MA's), (112, 27448), (116, 27466), (128, 27493), (141, 27547), (157, 27607), (158, 27610), (165, 27631), (179, 27688), (189, 27721), (217, 27778),

Gene: Adephagia_32 Start: 27343, Stop: 27783, Start Num: 65

Candidate Starts for Adephagia_32:

(24, 27106), (42, 27280), (Start: 65 @27343 has 123 MA's), (Start: 82 @27373 has 3 MA's), (86, 27379), (Start: 89 @27385 has 7 MA's), (Start: 97 @27397 has 3 MA's), (112, 27445), (116, 27463), (128, 27490), (141, 27544), (157, 27604), (158, 27607), (165, 27628), (179, 27685), (189, 27718), (217, 27775),

Gene: Adgers_33 Start: 37508, Stop: 38029, Start Num: 52

Candidate Starts for Adgers_33:

(Start: 52 @37508 has 16 MA's), (Start: 78 @37562 has 43 MA's), (Start: 84 @37574 has 3 MA's), (Start: 97 @37595 has 3 MA's), (117, 37664), (124, 37679), (147, 37763), (160, 37814), (165, 37826), (180, 37886), (196, 37943), (208, 37976), (210, 37991),

Gene: Adonis_32 Start: 27349, Stop: 27798, Start Num: 65

Candidate Starts for Adonis_32:

(24, 27112), (32, 27223), (42, 27286), (Start: 65 @27349 has 123 MA's), (Start: 82 @27379 has 3 MA's), (86, 27385), (Start: 89 @27391 has 7 MA's), (Start: 97 @27403 has 3 MA's), (112, 27451), (116, 27469), (128, 27496), (141, 27550), (144, 27559), (158, 27613), (179, 27691),

Gene: Agent47_31 Start: 27988, Stop: 28437, Start Num: 58

Candidate Starts for Agent47_31:

(3, 27472), (4, 27586), (Start: 56 @27985 has 16 MA's), (Start: 58 @27988 has 3 MA's), (Start: 82 @28030 has 3 MA's), (Start: 89 @28042 has 7 MA's), (Start: 97 @28054 has 3 MA's), (112, 28102), (115, 28114), (116, 28120), (124, 28138), (128, 28147), (141, 28201), (144, 28210), (148, 28225), (158, 28264), (160, 28273), (165, 28285), (175, 28330), (178, 28339), (179, 28342), (186, 28363), (189, 28375),

Gene: Ageofdapage_32 Start: 27286, Stop: 27726, Start Num: 65

Candidate Starts for Ageofdapage_32:

(24, 27049), (Start: 65 @27286 has 123 MA's), (Start: 82 @27316 has 3 MA's), (86, 27322), (Start: 89 @27328 has 7 MA's), (Start: 97 @27340 has 3 MA's), (112, 27388), (116, 27406), (128, 27433), (137, 27472), (141, 27487), (144, 27496), (158, 27550), (179, 27628), (189, 27661), (217, 27718),

Gene: Ahwei_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for Ahwei_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: Akoma_17 Start: 14566, Stop: 15000, Start Num: 70

Candidate Starts for Akoma_17:

(38, 14461), (Start: 70 @14566 has 47 MA's), (103, 14620), (122, 14686), (177, 14887), (178, 14890),

Gene: AlishaPH_32 Start: 27336, Stop: 27776, Start Num: 65

Candidate Starts for AlishaPH_32:

(42, 27273), (Start: 65 @27336 has 123 MA's), (Start: 82 @27366 has 3 MA's), (86, 27372), (Start: 89 @27378 has 7 MA's), (Start: 97 @27390 has 3 MA's), (112, 27438), (116, 27456), (128, 27483), (141, 27537), (144, 27546), (158, 27600), (165, 27621), (179, 27678), (189, 27711), (217, 27768),

Gene: AlleyCat_32 Start: 27916, Stop: 28368, Start Num: 56

Candidate Starts for AlleyCat_32:

(Start: 56 @27916 has 16 MA's), (Start: 58 @27919 has 3 MA's), (Start: 82 @27961 has 3 MA's), (Start: 89 @27973 has 7 MA's), (Start: 97 @27985 has 3 MA's), (112, 28033), (115, 28045), (116, 28051), (124, 28069), (128, 28078), (144, 28141), (148, 28156), (158, 28195), (160, 28204), (165, 28216), (178, 28270), (179, 28273), (186, 28294), (189, 28306),

Gene: Amelie_28 Start: 26747, Stop: 27205, Start Num: 65

Candidate Starts for Amelie_28:

(28, 26528), (Start: 65 @26747 has 123 MA's), (Start: 82 @26777 has 3 MA's), (86, 26783), (Start: 97 @26801 has 3 MA's), (115, 26861), (124, 26885), (128, 26894), (129, 26897), (132, 26909), (141, 26948), (144, 26957), (145, 26960), (158, 27011), (165, 27032), (169, 27047), (179, 27089), (183, 27101),

Gene: Amgine_30 Start: 27287, Stop: 27751, Start Num: 64

Candidate Starts for Amgine_30:

(33, 27164), (Start: 64 @27287 has 9 MA's), (Start: 82 @27317 has 3 MA's), (Start: 84 @27320 has 3 MA's), (90, 27332), (Start: 100 @27347 has 5 MA's), (113, 27395), (115, 27401), (116, 27407), (128, 27434), (141, 27488), (158, 27551), (179, 27629),

Gene: Amochick_34 Start: 29602, Stop: 30012, Start Num: 76

Candidate Starts for Amochick_34:

(Start: 76 @29602 has 22 MA's), (115, 29704), (135, 29770), (139, 29782), (142, 29794), (148, 29815), (172, 29902), (199, 29995),

Gene: Amohnition_31 Start: 27721, Stop: 28185, Start Num: 64

Candidate Starts for Amohnition_31:

(Start: 56 @27706 has 16 MA's), (Start: 64 @27721 has 9 MA's), (Start: 82 @27751 has 3 MA's), (Start: 84 @27754 has 3 MA's), (Start: 97 @27775 has 3 MA's), (116, 27841), (128, 27868), (141, 27922), (158, 27985), (179, 28063), (183, 28075),

Gene: Amore2_36 Start: 38215, Stop: 38634, Start Num: 78

Candidate Starts for Amore2_36:

(Start: 78 @38215 has 43 MA's), (114, 38287), (120, 38308), (127, 38320), (129, 38326), (155, 38428), (165, 38461), (166, 38467), (176, 38509), (191, 38563), (196, 38578),

Gene: Amymech_34 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Amymech_34:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: AnClar_14 Start: 13769, Stop: 14164, Start Num: 89

Candidate Starts for AnClar_14:

(Start: 89 @13769 has 7 MA's), (Start: 95 @13781 has 5 MA's), (111, 13811), (132, 13883), (150, 13952), (167, 14015), (169, 14021), (190, 14099), (194, 14114), (196, 14120),

Gene: Anamika_33 Start: 39971, Stop: 40408, Start Num: 78

Candidate Starts for Anamika_33:

(Start: 52 @39917 has 16 MA's), (Start: 78 @39971 has 43 MA's), (Start: 84 @39983 has 3 MA's), (Start: 97 @40004 has 3 MA's), (115, 40064), (122, 40085), (161, 40226), (180, 40295),

Gene: AnarQue_16 Start: 14378, Stop: 14779, Start Num: 71

Candidate Starts for AnarQue_16:

(Start: 71 @14378 has 6 MA's), (101, 14426), (128, 14504), (156, 14615), (167, 14651), (169, 14657), (182, 14708), (188, 14726), (194, 14750), (200, 14768), (201, 14771),

Gene: Anaya_33 Start: 27362, Stop: 27811, Start Num: 65

Candidate Starts for Anaya_33:

(42, 27299), (Start: 65 @27362 has 123 MA's), (Start: 82 @27392 has 3 MA's), (86, 27398), (Start: 89 @27404 has 7 MA's), (Start: 97 @27416 has 3 MA's), (112, 27464), (116, 27482), (128, 27509), (141, 27563), (144, 27572), (158, 27626), (165, 27647), (179, 27704), (217, 27803),

Gene: Angelica_32 Start: 27293, Stop: 27733, Start Num: 65

Candidate Starts for Angelica_32:

(42, 27230), (Start: 65 @27293 has 123 MA's), (Start: 82 @27323 has 3 MA's), (86, 27329), (Start: 89 @27335 has 7 MA's), (Start: 97 @27347 has 3 MA's), (112, 27395), (116, 27413), (128, 27440), (141, 27494), (144, 27503), (158, 27557), (165, 27578), (179, 27635), (189, 27668), (217, 27725),

Gene: Antihero_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for Antihero_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: Apex_15 Start: 15157, Stop: 15558, Start Num: 83

Candidate Starts for Apex_15:

(Start: 83 @15157 has 49 MA's), (122, 15253), (126, 15259), (135, 15298), (142, 15322), (145, 15331), (156, 15376), (158, 15382), (161, 15394), (165, 15403), (167, 15412), (173, 15433), (174, 15442), (204, 15535),

Gene: Aphelion_51 Start: 32908, Stop: 33315, Start Num: 105

Candidate Starts for Aphelion_51:

(Start: 105 @32908 has 16 MA's), (120, 32971), (122, 32974), (152, 33076), (179, 33187), (192, 33229), (219, 33304),

Gene: Apocalypse_32 Start: 27314, Stop: 27754, Start Num: 65

Candidate Starts for Apocalypse_32:

(21, 27062), (24, 27077), (42, 27251), (Start: 65 @27314 has 123 MA's), (Start: 82 @27344 has 3 MA's), (86, 27350), (Start: 89 @27356 has 7 MA's), (Start: 97 @27368 has 3 MA's), (112, 27416), (116, 27434), (128, 27461), (141, 27515), (144, 27524), (158, 27578), (165, 27599), (179, 27656), (189, 27689), (217, 27746),

Gene: Apricot_23 Start: 19749, Stop: 20129, Start Num: 99

Candidate Starts for Apricot_23:

(Start: 99 @19749 has 15 MA's), (Start: 104 @19755 has 35 MA's), (117, 19812), (118, 19815), (144, 19899), (150, 19920), (160, 19962), (161, 19965), (189, 20064),

Gene: Asapag_24 Start: 20197, Stop: 20571, Start Num: 104

Candidate Starts for Asapag_24:

(Start: 99 @20191 has 15 MA's), (Start: 104 @20197 has 35 MA's), (117, 20254), (118, 20257), (122, 20266), (136, 20314), (150, 20362), (160, 20404), (161, 20407), (189, 20506),

Gene: Asayake_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Asayake_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Athena_18 Start: 15329, Stop: 15763, Start Num: 70

Candidate Starts for Athena_18:

(38, 15224), (Start: 70 @15329 has 47 MA's), (103, 15383), (122, 15449), (177, 15650), (178, 15653),

Gene: Atiba_32 Start: 27306, Stop: 27746, Start Num: 65

Candidate Starts for Atiba_32:

(24, 27069), (42, 27243), (Start: 65 @27306 has 123 MA's), (Start: 82 @27336 has 3 MA's), (86, 27342), (Start: 89 @27348 has 7 MA's), (Start: 97 @27360 has 3 MA's), (112, 27408), (116, 27426), (128, 27453), (141, 27507), (157, 27567), (158, 27570), (165, 27591), (179, 27648), (189, 27681), (217, 27738),

Gene: Audrey_17 Start: 14566, Stop: 15000, Start Num: 70

Candidate Starts for Audrey_17:

(38, 14461), (Start: 70 @14566 has 47 MA's), (103, 14620), (122, 14686), (177, 14887), (178, 14890),

Gene: AuntGwenStacy_33 Start: 30335, Stop: 30691, Start Num: 105

Candidate Starts for AuntGwenStacy_33:

(41, 30185), (Start: 105 @30335 has 16 MA's), (112, 30368), (129, 30416), (132, 30428), (137, 30452), (141, 30467), (147, 30488), (155, 30518), (160, 30539), (161, 30542), (179, 30608), (182, 30617), (186, 30629),

Gene: Austelle_16 Start: 15613, Stop: 16014, Start Num: 83

Candidate Starts for Austelle_16:

(Start: 83 @15613 has 49 MA's), (126, 15715), (135, 15754), (142, 15778), (145, 15787), (156, 15832), (161, 15850), (167, 15868), (173, 15889), (174, 15898), (204, 15991),

Gene: Austin_36 Start: 38215, Stop: 38634, Start Num: 78

Candidate Starts for Austin_36:

(Start: 78 @38215 has 43 MA's), (114, 38287), (120, 38308), (127, 38320), (129, 38326), (155, 38428), (165, 38461), (166, 38467), (176, 38509), (191, 38563), (196, 38578), (210, 38626),

Gene: Axumite_14 Start: 12949, Stop: 13329, Start Num: 95

Candidate Starts for Axumite_14:

(Start: 95 @12949 has 5 MA's), (122, 13024), (132, 13051), (150, 13120), (169, 13189), (173, 13204), (190, 13267), (194, 13282),

Gene: BEEST_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for BEEST_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: BENtherdunthat_24 Start: 20197, Stop: 20568, Start Num: 104

Candidate Starts for BENtherdunthat_24:

(Start: 99 @20191 has 15 MA's), (Start: 104 @20197 has 35 MA's), (117, 20254), (118, 20257), (144, 20341), (150, 20362), (160, 20404), (161, 20407), (165, 20416), (180, 20476), (181, 20479),

Gene: BGlluviae_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for BGlluviae_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Bachita_53 Start: 33341, Stop: 33748, Start Num: 105

Candidate Starts for Bachita_53:

(Start: 105 @33341 has 16 MA's), (120, 33404), (122, 33407), (152, 33509), (179, 33620), (192, 33662), (219, 33737),

Gene: Bae_16 Start: 14990, Stop: 15397, Start Num: 83

Candidate Starts for Bae_16:

(29, 14732), (Start: 83 @14990 has 49 MA's), (124, 15095), (126, 15098), (145, 15170), (146, 15176), (156, 15215), (167, 15251), (177, 15293), (204, 15377),

Gene: BaghaKamala_32 Start: 27306, Stop: 27746, Start Num: 65

Candidate Starts for BaghaKamala_32:

(42, 27243), (Start: 65 @27306 has 123 MA's), (Start: 82 @27336 has 3 MA's), (86, 27342), (Start: 89 @27348 has 7 MA's), (Start: 97 @27360 has 3 MA's), (112, 27408), (116, 27426), (128, 27453), (141, 27507), (144, 27516), (157, 27567), (158, 27570), (165, 27591), (179, 27648), (189, 27681), (217, 27738),

Gene: Baloo_17 Start: 14566, Stop: 14997, Start Num: 70

Candidate Starts for Baloo_17:

(38, 14461), (Start: 70 @14566 has 47 MA's), (103, 14620), (122, 14686), (177, 14887), (178, 14890),

Gene: Bantam_33 Start: 30576, Stop: 30989, Start Num: 100

Candidate Starts for Bantam_33:

(Start: 100 @30576 has 5 MA's), (128, 30666), (133, 30684), (183, 30879),

Gene: Barbochs_32 Start: 37400, Stop: 37867, Start Num: 78

Candidate Starts for Barbochs_32:

(Start: 52 @37346 has 16 MA's), (Start: 78 @37400 has 43 MA's), (Start: 84 @37412 has 3 MA's), (Start: 97 @37433 has 3 MA's), (115, 37493), (124, 37517), (147, 37601), (160, 37652), (165, 37664), (180, 37724), (196, 37781), (208, 37814), (210, 37829),

Gene: BarrelRoll_32 Start: 27329, Stop: 27769, Start Num: 65

Candidate Starts for BarrelRoll_32:

(22, 27080), (24, 27092), (42, 27266), (Start: 65 @27329 has 123 MA's), (Start: 82 @27359 has 3 MA's), (86, 27365), (Start: 89 @27371 has 7 MA's), (Start: 97 @27383 has 3 MA's), (112, 27431), (116, 27449), (128, 27476), (141, 27530), (157, 27590), (158, 27593), (165, 27614), (179, 27671), (189, 27704), (217, 27761),

Gene: BatStarr_22 Start: 21074, Stop: 21430, Start Num: 104

Candidate Starts for BatStarr_22:

(Start: 104 @21074 has 35 MA's), (118, 21134), (122, 21143), (144, 21218), (160, 21281), (165, 21293), (180, 21353),

Gene: BearBQ_23 Start: 21031, Stop: 21408, Start Num: 99

Candidate Starts for BearBQ_23:

(Start: 99 @21031 has 15 MA's), (Start: 104 @21037 has 35 MA's), (117, 21094), (118, 21097), (144, 21181), (150, 21202), (160, 21244), (161, 21247), (165, 21256), (180, 21316), (181, 21319),

Gene: Beaver_36 Start: 39448, Stop: 39915, Start Num: 78

Candidate Starts for Beaver_36:

(Start: 52 @39394 has 16 MA's), (Start: 78 @39448 has 43 MA's), (Start: 84 @39460 has 3 MA's), (Start: 97 @39481 has 3 MA's), (124, 39565), (147, 39649), (160, 39700), (165, 39712), (180, 39772), (196, 39829), (208, 39862), (210, 39877),

Gene: Beckerton_35 Start: 32917, Stop: 33378, Start Num: 75

Candidate Starts for Beckerton_35:

(Start: 75 @32917 has 8 MA's), (Start: 80 @32929 has 1 MA's), (93, 32953), (Start: 107 @32980 has 1 MA's), (119, 33037), (120, 33040), (125, 33046), (127, 33052), (130, 33061), (132, 33070), (135, 33088), (148, 33133), (149, 33136), (157, 33172), (168, 33208), (173, 33226), (187, 33277), (197, 33313),

Gene: Beezoo_32 Start: 27354, Stop: 27794, Start Num: 65

Candidate Starts for Beezoo_32:

(24, 27117), (42, 27291), (Start: 65 @27354 has 123 MA's), (Start: 82 @27384 has 3 MA's), (86, 27390), (Start: 89 @27396 has 7 MA's), (Start: 97 @27408 has 3 MA's), (112, 27456), (116, 27474), (128, 27501), (141, 27555), (144, 27564), (158, 27618), (165, 27639), (179, 27696), (189, 27729), (217, 27786),

Gene: Bella96_32 Start: 27247, Stop: 27687, Start Num: 65

Candidate Starts for Bella96_32:

(11, 26920), (19, 26986), (42, 27184), (Start: 65 @27247 has 123 MA's), (Start: 82 @27277 has 3 MA's), (86, 27283), (Start: 89 @27289 has 7 MA's), (Start: 97 @27301 has 3 MA's), (112, 27349), (116, 27367), (128, 27394), (141, 27448), (144, 27457), (158, 27511), (179, 27589), (189, 27622), (217, 27679),

Gene: Belladonna_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Belladonna_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Benczkowski14_31 Start: 39098, Stop: 39532, Start Num: 81

Candidate Starts for Benczkowski14_31:

(Start: 81 @39098 has 7 MA's), (Start: 97 @39119 has 3 MA's), (108, 39137), (114, 39170), (157, 39320), (161, 39335), (178, 39395), (180, 39401), (182, 39407), (204, 39482),

Gene: BenoitCattle_32 Start: 37503, Stop: 37970, Start Num: 78

Candidate Starts for BenoitCattle_32:

(Start: 52 @37449 has 16 MA's), (Start: 78 @37503 has 43 MA's), (Start: 84 @37515 has 3 MA's), (Start: 97 @37536 has 3 MA's), (124, 37620), (127, 37626), (147, 37704), (160, 37755), (180, 37827), (196, 37884), (204, 37908), (208, 37917), (211, 37935),

Gene: Bernardo_17 Start: 14565, Stop: 14999, Start Num: 70

Candidate Starts for Bernardo_17:

(38, 14460), (Start: 70 @14565 has 47 MA's), (103, 14619), (122, 14685), (177, 14886), (178, 14889),

Gene: Berries_33 Start: 39941, Stop: 40378, Start Num: 78

Candidate Starts for Berries_33:

(Start: 52 @39887 has 16 MA's), (Start: 78 @39941 has 43 MA's), (Start: 84 @39953 has 3 MA's), (Start: 97 @39974 has 3 MA's), (115, 40034), (122, 40055), (161, 40196), (180, 40265),

Gene: Bialota_22 Start: 21086, Stop: 21442, Start Num: 104

Candidate Starts for Bialota_22:

(Start: 104 @21086 has 35 MA's), (118, 21146), (122, 21155), (144, 21230), (160, 21293), (165, 21305), (180, 21365),

Gene: Bianmat_33 Start: 39981, Stop: 40418, Start Num: 78

Candidate Starts for Bianmat_33:

(Start: 52 @39927 has 16 MA's), (Start: 78 @39981 has 43 MA's), (Start: 84 @39993 has 3 MA's), (Start: 97 @40014 has 3 MA's), (115, 40074), (122, 40095), (161, 40236), (180, 40305),

Gene: BigShaq_32 Start: 37508, Stop: 37975, Start Num: 78

Candidate Starts for BigShaq_32:

(Start: 52 @37454 has 16 MA's), (Start: 78 @37508 has 43 MA's), (Start: 84 @37520 has 3 MA's), (Start: 97 @37541 has 3 MA's), (102, 37550), (124, 37625), (127, 37631), (147, 37709), (160, 37760), (180, 37832), (196, 37889), (204, 37913), (208, 37922), (211, 37940),

Gene: BiggityBass_13 Start: 12863, Stop: 13258, Start Num: 89

Candidate Starts for BiggityBass_13:

(Start: 89 @12863 has 7 MA's), (Start: 95 @12875 has 5 MA's), (111, 12905), (118, 12941), (132, 12977), (150, 13046), (167, 13109), (169, 13115), (190, 13193), (194, 13208), (196, 13214),

Gene: Biglebops_28 Start: 26747, Stop: 27205, Start Num: 65

Candidate Starts for Biglebops_28:

(28, 26528), (Start: 65 @26747 has 123 MA's), (Start: 82 @26777 has 3 MA's), (86, 26783), (Start: 97 @26801 has 3 MA's), (115, 26861), (124, 26885), (128, 26894), (129, 26897), (132, 26909), (141, 26948), (144, 26957), (145, 26960), (158, 27011), (165, 27032), (169, 27047), (179, 27089), (183, 27101),

Gene: Bipper_36 Start: 31123, Stop: 31452, Start Num: 105

Candidate Starts for Bipper_36:

(57, 31051), (68, 31069), (Start: 89 @31099 has 7 MA's), (Start: 105 @31123 has 16 MA's), (115, 31168), (127, 31198), (132, 31216), (138, 31243), (141, 31255), (142, 31258), (144, 31264), (147, 31276), (161, 31330), (171, 31360), (181, 31402), (182, 31405), (186, 31417),

Gene: Birdsong_23 Start: 19924, Stop: 20301, Start Num: 99

Candidate Starts for Birdsong_23:

(Start: 99 @19924 has 15 MA's), (Start: 104 @19930 has 35 MA's), (117, 19987), (118, 19990), (144, 20074), (150, 20095), (160, 20137), (161, 20140), (165, 20149), (180, 20209), (181, 20212),

Gene: BirksAndSocks_36 Start: 39372, Stop: 39893, Start Num: 52

Candidate Starts for BirksAndSocks_36:

(Start: 52 @39372 has 16 MA's), (Start: 78 @39426 has 43 MA's), (Start: 84 @39438 has 3 MA's), (Start: 97 @39459 has 3 MA's), (115, 39519), (124, 39543), (147, 39627), (160, 39678), (165, 39690), (180, 39750), (196, 39807), (208, 39840), (210, 39855),

Gene: Blizzard_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Blizzard_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: BobRoss2024_13 Start: 12784, Stop: 13155, Start Num: 89

Candidate Starts for BobRoss2024_13:

(Start: 87 @12781 has 2 MA's), (Start: 89 @12784 has 7 MA's), (144, 12943), (167, 13027), (169, 13033), (173, 13048), (174, 13057), (182, 13084), (194, 13126),

Gene: BobbyK_15 Start: 14976, Stop: 15377, Start Num: 83

Candidate Starts for BobbyK_15:

(Start: 83 @14976 has 49 MA's), (122, 15072), (126, 15078), (135, 15117), (142, 15141), (145, 15150), (156, 15195), (161, 15213), (167, 15231), (173, 15252), (174, 15261), (204, 15354),

Gene: Boiiii_32 Start: 27379, Stop: 27819, Start Num: 65

Candidate Starts for Boiiii_32:

(42, 27316), (Start: 65 @27379 has 123 MA's), (Start: 82 @27409 has 3 MA's), (86, 27415), (Start: 89 @27421 has 7 MA's), (Start: 97 @27433 has 3 MA's), (112, 27481), (116, 27499), (128, 27526), (141, 27580), (144, 27589), (157, 27640), (158, 27643), (165, 27664), (179, 27721), (189, 27754), (217, 27811),

Gene: Boilgate_29 Start: 29197, Stop: 29595, Start Num: 83

Candidate Starts for Boilgate_29:

(51, 29137), (Start: 83 @29197 has 49 MA's), (102, 29227), (112, 29266), (128, 29311), (129, 29314), (150, 29395), (160, 29437), (167, 29458), (171, 29470), (173, 29479), (181, 29512), (189, 29539), (200, 29575),

Gene: Boneham_36 Start: 39371, Stop: 39892, Start Num: 52

Candidate Starts for Boneham_36:

(Start: 52 @39371 has 16 MA's), (Start: 78 @39425 has 43 MA's), (Start: 84 @39437 has 3 MA's), (Start: 97 @39458 has 3 MA's), (115, 39518), (124, 39542), (147, 39626), (160, 39677), (165, 39689), (180, 39749), (196, 39806), (208, 39839), (210, 39854),

Gene: BoostSeason_31 Start: 26116, Stop: 26502, Start Num: 104

Candidate Starts for BoostSeason_31:

(Start: 104 @26116 has 35 MA's), (Start: 105 @26119 has 16 MA's), (128, 26197), (131, 26206), (132, 26212), (136, 26233), (139, 26242), (140, 26248), (141, 26251), (144, 26260), (160, 26323), (167, 26344), (172, 26362), (173, 26365),

Gene: Bosnia_22 Start: 21074, Stop: 21430, Start Num: 104

Candidate Starts for Bosnia_22:

(Start: 104 @21074 has 35 MA's), (118, 21134), (122, 21143), (144, 21218), (160, 21281), (165, 21293), (180, 21353),

Gene: Breezic_32 Start: 37360, Stop: 37881, Start Num: 52

Candidate Starts for Breezic_32:

(Start: 52 @37360 has 16 MA's), (Start: 78 @37414 has 43 MA's), (Start: 84 @37426 has 3 MA's), (Start: 97 @37447 has 3 MA's), (117, 37516), (124, 37531), (147, 37615), (160, 37666), (165, 37678), (180, 37738), (196, 37795), (208, 37828), (210, 37843),

Gene: Briakila_17 Start: 15331, Stop: 15765, Start Num: 70

Candidate Starts for Briakila_17:

(38, 15226), (Start: 70 @15331 has 47 MA's), (103, 15385), (122, 15451), (177, 15652), (178, 15655),

Gene: BrownCNA_16 Start: 15230, Stop: 15631, Start Num: 83

Candidate Starts for BrownCNA_16:

(Start: 83 @15230 has 49 MA's), (126, 15332), (135, 15371), (142, 15395), (145, 15404), (156, 15449), (161, 15467), (165, 15476), (167, 15485), (173, 15506), (174, 15515), (204, 15608),

Gene: BrutonGaster_40 Start: 30025, Stop: 30432, Start Num: 105

Candidate Starts for BrutonGaster_40:

(Start: 105 @30025 has 16 MA's), (147, 30178), (152, 30193), (154, 30205), (179, 30304), (192, 30346),

Gene: Bryler_32 Start: 26627, Stop: 27091, Start Num: 65

Candidate Starts for Bryler_32:

(Start: 65 @26627 has 123 MA's), (Start: 78 @26648 has 43 MA's), (Start: 82 @26657 has 3 MA's), (Start: 84 @26660 has 3 MA's), (Start: 100 @26687 has 5 MA's), (115, 26741), (116, 26747), (128, 26774), (141, 26828), (161, 26903), (179, 26969), (204, 27044),

Gene: Budski_24 Start: 20296, Stop: 20676, Start Num: 99

Candidate Starts for Budski_24:

(4, 19807), (15, 19918), (18, 19936), (Start: 99 @20296 has 15 MA's), (Start: 104 @20302 has 35 MA's), (117, 20359), (118, 20362), (122, 20371), (144, 20446), (160, 20509), (161, 20512), (165, 20521), (180, 20581), (181, 20584),

Gene: Butterball_36 Start: 39425, Stop: 39892, Start Num: 78

Candidate Starts for Butterball_36:

(Start: 52 @39371 has 16 MA's), (Start: 78 @39425 has 43 MA's), (Start: 84 @39437 has 3 MA's), (Start: 97 @39458 has 3 MA's), (115, 39518), (124, 39542), (147, 39626), (160, 39677), (165, 39689), (180, 39749), (196, 39806), (208, 39839), (210, 39854),

Gene: CREW_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for CREW_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: CaiB_16 Start: 14363, Stop: 14764, Start Num: 71

Candidate Starts for CaiB_16:

(Start: 71 @14363 has 6 MA's), (101, 14411), (128, 14489), (156, 14600), (165, 14627), (167, 14636), (169, 14642), (182, 14693), (188, 14711), (194, 14735), (200, 14753), (201, 14756),

Gene: Cain_32 Start: 26615, Stop: 27079, Start Num: 65

Candidate Starts for Cain_32:

(Start: 65 @26615 has 123 MA's), (Start: 78 @26636 has 43 MA's), (Start: 82 @26645 has 3 MA's), (Start: 84 @26648 has 3 MA's), (Start: 100 @26675 has 5 MA's), (115, 26729), (116, 26735), (128, 26762), (141, 26816), (161, 26891), (179, 26957), (204, 27032),

Gene: Camerico_37 Start: 41920, Stop: 42348, Start Num: 78

Candidate Starts for Camerico_37:

(Start: 78 @41920 has 43 MA's), (114, 42013), (132, 42064), (139, 42094), (144, 42112), (145, 42115), (167, 42196), (180, 42244), (187, 42268), (191, 42286), (193, 42292), (196, 42301), (203, 42322),

Gene: Capricorn_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Capricorn_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Cardigan_51 Start: 36197, Stop: 36607, Start Num: 74

Candidate Starts for Cardigan_51:

(5, 35792), (6, 35795), (8, 35819), (13, 35843), (34, 36044), (36, 36080), (40, 36098), (44, 36110), (47, 36116), (48, 36119), (Start: 74 @36197 has 2 MA's), (119, 36308), (132, 36341), (137, 36365), (182, 36530),

Gene: Casbah_16 Start: 14418, Stop: 14852, Start Num: 70

Candidate Starts for Casbah_16:

(38, 14313), (Start: 70 @14418 has 47 MA's), (103, 14472), (122, 14538), (177, 14739), (178, 14742),

Gene: CaseJules_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for CaseJules_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141,

27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: CathyBurgh_31 Start: 38268, Stop: 38735, Start Num: 78

Candidate Starts for CathyBurgh_31:

(Start: 52 @38214 has 16 MA's), (Start: 78 @38268 has 43 MA's), (Start: 84 @38280 has 3 MA's), (Start: 97 @38301 has 3 MA's), (124, 38385), (147, 38469), (160, 38520), (165, 38532), (180, 38592), (196, 38649), (208, 38682), (210, 38697),

Gene: Cborch11_36 Start: 32382, Stop: 32843, Start Num: 75

Candidate Starts for Cborch11_36:

(Start: 75 @32382 has 8 MA's), (Start: 80 @32394 has 1 MA's), (93, 32418), (Start: 107 @32445 has 1 MA's), (119, 32502), (125, 32511), (127, 32517), (130, 32526), (132, 32535), (135, 32553), (148, 32598), (149, 32601), (157, 32637), (168, 32673), (173, 32691), (187, 32742), (197, 32778),

Gene: ChaChing_17 Start: 14581, Stop: 14964, Start Num: 70

Candidate Starts for ChaChing_17:

(38, 14476), (Start: 70 @14581 has 47 MA's), (103, 14635), (122, 14701), (177, 14902), (178, 14905),

Gene: Chancellor_33 Start: 28471, Stop: 28869, Start Num: 83

Candidate Starts for Chancellor_33:

(Start: 83 @28471 has 49 MA's), (Start: 97 @28492 has 3 MA's), (102, 28501), (129, 28588), (133, 28603), (148, 28663), (150, 28669), (154, 28687), (160, 28711), (167, 28732), (171, 28744), (173, 28753), (175, 28768), (182, 28789), (200, 28849),

Gene: Chandler_17 Start: 15340, Stop: 15774, Start Num: 70

Candidate Starts for Chandler_17:

(38, 15235), (Start: 70 @15340 has 47 MA's), (103, 15394), (122, 15460), (177, 15661), (178, 15664),

Gene: Charianelly_33 Start: 39691, Stop: 40128, Start Num: 78

Candidate Starts for Charianelly_33:

(Start: 52 @39637 has 16 MA's), (Start: 78 @39691 has 43 MA's), (Start: 84 @39703 has 3 MA's), (Start: 97 @39724 has 3 MA's), (115, 39784), (122, 39805), (161, 39946), (180, 40015),

Gene: CharlottesWeb_14 Start: 12853, Stop: 13239, Start Num: 89

Candidate Starts for CharlottesWeb_14:

(Start: 89 @12853 has 7 MA's), (Start: 95 @12865 has 5 MA's), (118, 12931), (132, 12967), (150, 13036), (169, 13105), (173, 13120), (198, 13210),

Gene: CheeseTouch_24 Start: 20185, Stop: 20562, Start Num: 99

Candidate Starts for CheeseTouch_24:

(Start: 99 @20185 has 15 MA's), (Start: 104 @20191 has 35 MA's), (117, 20248), (118, 20251), (122, 20260), (136, 20308), (144, 20335), (160, 20398), (161, 20401), (169, 20425), (180, 20470), (181, 20473),

Gene: CheetoDust_32 Start: 27354, Stop: 27794, Start Num: 65

Candidate Starts for CheetoDust_32:

(17, 27069), (24, 27117), (26, 27123), (42, 27291), (Start: 65 @27354 has 123 MA's), (Start: 82 @27384 has 3 MA's), (86, 27390), (Start: 89 @27396 has 7 MA's), (Start: 97 @27408 has 3 MA's), (112, 27456), (116, 27474), (128, 27501), (141, 27555), (144, 27564), (158, 27618), (165, 27639), (179, 27696), (189, 27729), (217, 27786),

Gene: Cheetobro_33 Start: 28468, Stop: 28866, Start Num: 83

Candidate Starts for Cheetobro_33:

(Start: 83 @28468 has 49 MA's), (Start: 97 @28489 has 3 MA's), (102, 28498), (129, 28585), (133, 28600), (148, 28660), (150, 28666), (154, 28684), (160, 28708), (167, 28729), (171, 28741), (173, 28750), (175, 28765), (182, 28786), (200, 28846),

Gene: Chelms_32 Start: 37457, Stop: 37978, Start Num: 52

Candidate Starts for Chelms_32:

(Start: 52 @37457 has 16 MA's), (Start: 78 @37511 has 43 MA's), (Start: 84 @37523 has 3 MA's), (Start: 97 @37544 has 3 MA's), (124, 37628), (127, 37634), (147, 37712), (160, 37763), (180, 37835), (196, 37892), (204, 37916), (208, 37925), (211, 37943),

Gene: CherryTomatoes_174 Start: 126292, Stop: 126711, Start Num: 77

Candidate Starts for CherryTomatoes_174:

(Start: 77 @126292 has 4 MA's), (120, 126406), (126, 126415), (160, 126547), (168, 126571), (181, 126622), (186, 126634), (189, 126646),

Gene: Chris_31 Start: 26496, Stop: 26951, Start Num: 64

Candidate Starts for Chris_31:

(Start: 64 @26496 has 9 MA's), (Start: 82 @26526 has 3 MA's), (Start: 84 @26529 has 3 MA's), (Start: 98 @26553 has 5 MA's), (116, 26616), (128, 26643), (141, 26697), (161, 26772), (175, 26826), (179, 26838), (185, 26856),

Gene: ChrisnMich_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for ChrisnMich_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: CinnamonToast_37 Start: 39479, Stop: 39946, Start Num: 78

Candidate Starts for CinnamonToast_37:

(Start: 52 @39425 has 16 MA's), (Start: 78 @39479 has 43 MA's), (Start: 84 @39491 has 3 MA's), (Start: 97 @39512 has 3 MA's), (115, 39572), (124, 39596), (160, 39731), (165, 39743), (180, 39803), (196, 39860), (208, 39893), (210, 39908),

Gene: CloverMinnie_16 Start: 14303, Stop: 14704, Start Num: 71

Candidate Starts for CloverMinnie_16:

(38, 14198), (Start: 71 @14303 has 6 MA's), (85, 14324), (101, 14351), (128, 14429), (156, 14540), (165, 14567), (167, 14576), (169, 14582), (182, 14633), (188, 14651), (194, 14675), (200, 14693), (201, 14696),

Gene: ClubL_51 Start: 32830, Stop: 33237, Start Num: 105

Candidate Starts for ClubL_51:

(Start: 105 @32830 has 16 MA's), (120, 32893), (122, 32896), (152, 32998), (179, 33109), (192, 33151), (219, 33226),

Gene: Coldpizza_15 Start: 14928, Stop: 15302, Start Num: 90

Candidate Starts for Coldpizza_15:

(48, 14823), (90, 14928), (128, 15027), (129, 15030), (156, 15138), (161, 15156), (165, 15165), (167, 15174), (169, 15180), (177, 15216), (182, 15231), (193, 15270),

Gene: Collard_31 Start: 27949, Stop: 28398, Start Num: 58

Candidate Starts for Collard_31:

(3, 27433), (4, 27547), (Start: 56 @27946 has 16 MA's), (Start: 58 @27949 has 3 MA's), (Start: 82 @27991 has 3 MA's), (Start: 89 @28003 has 7 MA's), (Start: 97 @28015 has 3 MA's), (112, 28063),

(115, 28075), (116, 28081), (124, 28099), (128, 28108), (141, 28162), (144, 28171), (148, 28186), (158, 28225), (160, 28234), (165, 28246), (175, 28291), (178, 28300), (179, 28303), (186, 28324), (189, 28336),

Gene: Compostia_18 Start: 14999, Stop: 15433, Start Num: 70

Candidate Starts for Compostia_18:

(38, 14894), (Start: 70 @14999 has 47 MA's), (103, 15053), (122, 15119), (177, 15320), (178, 15323),

Gene: Cooper_15 Start: 14020, Stop: 14421, Start Num: 83

Candidate Starts for Cooper_15:

(Start: 83 @14020 has 49 MA's), (126, 14122), (135, 14161), (142, 14185), (145, 14194), (150, 14212), (156, 14239), (161, 14257), (165, 14266), (167, 14275), (172, 14293), (173, 14296), (174, 14305), (182, 14332), (204, 14398),

Gene: Corofin_17 Start: 14591, Stop: 15025, Start Num: 70

Candidate Starts for Corofin_17:

(38, 14486), (Start: 70 @14591 has 47 MA's), (103, 14645), (122, 14711), (177, 14912), (178, 14915),

Gene: Cracklewink_36 Start: 31099, Stop: 31452, Start Num: 89

Candidate Starts for Cracklewink_36:

(57, 31051), (68, 31069), (Start: 89 @31099 has 7 MA's), (Start: 105 @31123 has 16 MA's), (115, 31168), (127, 31198), (132, 31216), (138, 31243), (141, 31255), (142, 31258), (144, 31264), (147, 31276), (161, 31330), (171, 31360), (181, 31402), (182, 31405), (186, 31417),

Gene: Crater_22 Start: 19749, Stop: 20129, Start Num: 99

Candidate Starts for Crater_22:

(Start: 99 @19749 has 15 MA's), (Start: 104 @19755 has 35 MA's), (117, 19812), (118, 19815), (144, 19899), (150, 19920), (160, 19962), (161, 19965), (189, 20064),

Gene: CrimD_32 Start: 27314, Stop: 27754, Start Num: 65

Candidate Starts for CrimD_32:

(11, 26987), (24, 27077), (42, 27251), (Start: 65 @27314 has 123 MA's), (Start: 82 @27344 has 3 MA's), (86, 27350), (Start: 89 @27356 has 7 MA's), (Start: 97 @27368 has 3 MA's), (112, 27416), (116, 27434), (128, 27461), (141, 27515), (144, 27524), (158, 27578), (179, 27656), (189, 27689), (217, 27746),

Gene: Cucurbita_53 Start: 34200, Stop: 34607, Start Num: 105

Candidate Starts for Cucurbita_53:

(Start: 105 @34200 has 16 MA's), (120, 34263), (122, 34266), (152, 34368), (179, 34479), (192, 34521), (219, 34596),

Gene: Cuke_27 Start: 25711, Stop: 26124, Start Num: 84

Candidate Starts for Cuke_27:

(55, 25657), (Start: 75 @25693 has 8 MA's), (Start: 84 @25711 has 3 MA's), (91, 25720), (93, 25723), (106, 25744), (112, 25777), (115, 25792), (122, 25813), (134, 25846), (148, 25891), (165, 25951), (176, 25999), (199, 26074), (205, 26086), (209, 26104),

Gene: Culver_51 Start: 32639, Stop: 33046, Start Num: 105

Candidate Starts for Culver_51:

(Start: 105 @32639 has 16 MA's), (120, 32702), (122, 32705), (152, 32807), (179, 32918), (192, 32960), (219, 33035),

Gene: Curiosium_33 Start: 27140, Stop: 27580, Start Num: 65

Candidate Starts for Curiosium_33:

(14, 26840), (16, 26852), (25, 26906), (33, 27017), (42, 27077), (Start: 65 @27140 has 123 MA's), (Start: 82 @27170 has 3 MA's), (86, 27176), (Start: 89 @27182 has 7 MA's), (Start: 97 @27194 has 3 MA's), (112, 27242), (115, 27254), (128, 27287), (129, 27290), (141, 27341), (144, 27350), (158, 27404), (165, 27425), (179, 27482), (195, 27536),

Gene: Dadosky_32 Start: 27920, Stop: 28369, Start Num: 58

Candidate Starts for Dadosky_32:

(Start: 56 @27917 has 16 MA's), (Start: 58 @27920 has 3 MA's), (Start: 82 @27962 has 3 MA's), (Start: 89 @27974 has 7 MA's), (Start: 97 @27986 has 3 MA's), (112, 28034), (115, 28046), (116, 28052), (124, 28070), (128, 28079), (144, 28142), (148, 28157), (158, 28196), (160, 28205), (165, 28217), (178, 28271), (179, 28274), (186, 28295), (189, 28307),

Gene: Daegal_35 Start: 29890, Stop: 30300, Start Num: 76

Candidate Starts for Daegal_35:

(Start: 76 @29890 has 22 MA's), (115, 29992), (135, 30058), (139, 30070), (142, 30082), (148, 30103), (172, 30190), (199, 30283),

Gene: Daisy_17 Start: 14587, Stop: 15021, Start Num: 70

Candidate Starts for Daisy_17:

(38, 14482), (Start: 70 @14587 has 47 MA's), (103, 14641), (122, 14707), (177, 14908), (178, 14911),

Gene: Dakiti_32 Start: 38325, Stop: 38846, Start Num: 52

Candidate Starts for Dakiti_32:

(Start: 52 @38325 has 16 MA's), (Start: 78 @38379 has 43 MA's), (Start: 84 @38391 has 3 MA's), (Start: 97 @38412 has 3 MA's), (124, 38496), (127, 38502), (147, 38580), (160, 38631), (180, 38703), (196, 38760), (204, 38784), (208, 38793), (211, 38811),

Gene: Dalmuri_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Dalmuri_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Damien_35 Start: 32383, Stop: 32844, Start Num: 75

Candidate Starts for Damien_35:

(Start: 75 @32383 has 8 MA's), (Start: 80 @32395 has 1 MA's), (93, 32419), (Start: 107 @32446 has 1 MA's), (119, 32503), (120, 32506), (125, 32512), (127, 32518), (130, 32527), (132, 32536), (135, 32554), (148, 32599), (149, 32602), (157, 32638), (168, 32674), (173, 32692), (187, 32743), (197, 32779),

Gene: Damp_33 Start: 38855, Stop: 39292, Start Num: 78

Candidate Starts for Damp_33:

(Start: 52 @38801 has 16 MA's), (Start: 78 @38855 has 43 MA's), (Start: 84 @38867 has 3 MA's), (Start: 97 @38888 has 3 MA's), (115, 38948), (122, 38969), (161, 39110), (180, 39179),

Gene: Daredevil_32 Start: 29087, Stop: 29497, Start Num: 100

Candidate Starts for Daredevil_32:

(Start: 100 @29087 has 5 MA's), (136, 29213), (173, 29348), (201, 29447),

Gene: DarthP_31 Start: 27643, Stop: 28107, Start Num: 64

Candidate Starts for DarthP_31:

(Start: 56 @27628 has 16 MA's), (Start: 64 @27643 has 9 MA's), (Start: 82 @27673 has 3 MA's), (Start: 84 @27676 has 3 MA's), (Start: 97 @27697 has 3 MA's), (116, 27763), (128, 27790), (141, 27844), (158, 27907), (179, 27985), (183, 27997),

Gene: Dartin_32 Start: 26622, Stop: 27086, Start Num: 65

Candidate Starts for Dartin_32:

(33, 26496), (35, 26523), (Start: 65 @26622 has 123 MA's), (Start: 82 @26652 has 3 MA's), (86, 26658), (Start: 89 @26664 has 7 MA's), (Start: 97 @26676 has 3 MA's), (112, 26724), (115, 26736), (128, 26769), (129, 26772), (141, 26823), (158, 26886), (165, 26907), (169, 26922), (175, 26952), (179, 26964), (183, 26976),

Gene: DatBoi_34 Start: 31309, Stop: 31719, Start Num: 100

Candidate Starts for DatBoi_34:

(Start: 100 @31309 has 5 MA's), (128, 31399), (152, 31486), (173, 31570), (183, 31609),

Gene: Deby_32 Start: 27311, Stop: 27751, Start Num: 65

Candidate Starts for Deby_32:

(42, 27248), (Start: 65 @27311 has 123 MA's), (Start: 82 @27341 has 3 MA's), (86, 27347), (Start: 89 @27353 has 7 MA's), (Start: 97 @27365 has 3 MA's), (112, 27413), (116, 27431), (128, 27458), (141, 27512), (144, 27521), (158, 27575), (165, 27596), (179, 27653), (189, 27686), (217, 27743),

Gene: Deenasa_17 Start: 15329, Stop: 15763, Start Num: 70

Candidate Starts for Deenasa_17:

(38, 15224), (Start: 70 @15329 has 47 MA's), (103, 15383), (122, 15449), (177, 15650), (178, 15653),

Gene: DeepSoil15_34 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for DeepSoil15_34:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Demosthenes_31 Start: 39018, Stop: 39470, Start Num: 60

Candidate Starts for Demosthenes_31:

(Start: 60 @39018 has 3 MA's), (110, 39078), (114, 39105), (118, 39120), (143, 39204), (151, 39228), (161, 39270), (167, 39288), (170, 39297), (182, 39342), (204, 39417),

Gene: Devera_32 Start: 27351, Stop: 27791, Start Num: 65

Candidate Starts for Devera_32:

(Start: 65 @27351 has 123 MA's), (Start: 82 @27381 has 3 MA's), (86, 27387), (Start: 89 @27393 has 7 MA's), (Start: 97 @27405 has 3 MA's), (112, 27453), (116, 27471), (128, 27498), (137, 27537), (141, 27552), (144, 27561), (158, 27615), (179, 27693), (217, 27783),

Gene: Devonte_17 Start: 14566, Stop: 15000, Start Num: 70

Candidate Starts for Devonte_17:

(38, 14461), (Start: 70 @14566 has 47 MA's), (103, 14620), (122, 14686), (177, 14887), (178, 14890),

Gene: Dewey_33 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Dewey_33:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Diabla_35 Start: 39281, Stop: 39739, Start Num: 78

Candidate Starts for Diabla_35:

(Start: 52 @39227 has 16 MA's), (59, 39254), (Start: 78 @39281 has 43 MA's), (Start: 84 @39293 has 3 MA's), (Start: 97 @39314 has 3 MA's), (115, 39374), (122, 39395), (124, 39398), (147, 39482), (180, 39605), (196, 39662), (204, 39686), (208, 39695),

Gene: DismalFunk_30 Start: 26028, Stop: 26414, Start Num: 104

Candidate Starts for DismalFunk_30:

(Start: 104 @26028 has 35 MA's), (Start: 105 @26031 has 16 MA's), (126, 26103), (128, 26109), (131, 26118), (132, 26124), (136, 26145), (139, 26154), (141, 26163), (144, 26172), (160, 26235), (167, 26256), (172, 26274), (173, 26277),

Gene: DismalStressor_30 Start: 26028, Stop: 26414, Start Num: 104

Candidate Starts for DismalStressor_30:

(Start: 104 @26028 has 35 MA's), (Start: 105 @26031 has 16 MA's), (126, 26103), (128, 26109), (131, 26118), (132, 26124), (136, 26145), (139, 26154), (141, 26163), (144, 26172), (160, 26235), (167, 26256), (172, 26274), (173, 26277),

Gene: Dole_32 Start: 27353, Stop: 27793, Start Num: 65

Candidate Starts for Dole_32:

(Start: 65 @27353 has 123 MA's), (Start: 82 @27383 has 3 MA's), (86, 27389), (Start: 89 @27395 has 7 MA's), (Start: 97 @27407 has 3 MA's), (112, 27455), (116, 27473), (128, 27500), (137, 27539), (141, 27554), (144, 27563), (158, 27617), (179, 27695), (217, 27785),

Gene: Dori_13 Start: 11588, Stop: 11983, Start Num: 70

Candidate Starts for Dori_13:

(Start: 70 @11588 has 47 MA's), (91, 11621), (118, 11699), (147, 11795), (160, 11846), (162, 11852), (164, 11858), (167, 11867), (177, 11909),

Gene: DrHayes_32 Start: 27266, Stop: 27706, Start Num: 65

Candidate Starts for DrHayes_32:

(Start: 56 @27251 has 16 MA's), (Start: 65 @27266 has 123 MA's), (Start: 82 @27296 has 3 MA's), (86, 27302), (Start: 89 @27308 has 7 MA's), (Start: 97 @27320 has 3 MA's), (112, 27368), (116, 27386), (128, 27413), (141, 27467), (144, 27476), (158, 27530), (179, 27608), (189, 27641), (217, 27698), (218, 27701),

Gene: Durfee_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Durfee_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Dusty_49 Start: 32639, Stop: 33046, Start Num: 105

Candidate Starts for Dusty_49:

(Start: 105 @32639 has 16 MA's), (120, 32702), (122, 32705), (152, 32807), (179, 32918), (192, 32960), (219, 33035),

Gene: EastView9101_16 Start: 14852, Stop: 15256, Start Num: 83

Candidate Starts for EastView9101_16:

(Start: 83 @14852 has 49 MA's), (109, 14903), (124, 14957), (126, 14960), (145, 15032), (146, 15038), (156, 15077), (167, 15113), (177, 15155), (204, 15236),

Gene: Edugator_31 Start: 27961, Stop: 28368, Start Num: 82

Candidate Starts for Edugator_31:

(Start: 56 @27916 has 16 MA's), (Start: 58 @27919 has 3 MA's), (Start: 82 @27961 has 3 MA's), (Start: 89 @27973 has 7 MA's), (Start: 97 @27985 has 3 MA's), (112, 28033), (115, 28045), (116, 28051), (124, 28069), (128, 28078), (144, 28141), (148, 28156), (158, 28195), (160, 28204), (165, 28216), (178, 28270), (179, 28273), (186, 28294),

Gene: Efra2_32 Start: 26582, Stop: 27031, Start Num: 65

Candidate Starts for Efra2_32:

(Start: 65 @26582 has 123 MA's), (Start: 82 @26612 has 3 MA's), (86, 26618), (Start: 89 @26624 has 7 MA's), (Start: 97 @26636 has 3 MA's), (112, 26684), (115, 26696), (128, 26729), (129, 26732), (141, 26783), (144, 26792), (165, 26867), (169, 26882), (179, 26924), (215, 27023),

Gene: Eggsie_32 Start: 37550, Stop: 38008, Start Num: 78

Candidate Starts for Eggsie_32:

(Start: 78 @37550 has 43 MA's), (Start: 84 @37562 has 3 MA's), (Start: 97 @37583 has 3 MA's), (115, 37643), (122, 37664), (124, 37667), (147, 37751), (180, 37874), (196, 37931), (204, 37955), (208, 37964),

Gene: Ein37_34 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Ein37_34:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Ekdilam_29 Start: 27401, Stop: 27862, Start Num: 64

Candidate Starts for Ekdilam_29:

(Start: 64 @27401 has 9 MA's), (Start: 82 @27431 has 3 MA's), (Start: 84 @27434 has 3 MA's), (Start: 97 @27455 has 3 MA's), (116, 27521), (128, 27548), (137, 27587), (141, 27602), (158, 27665), (179, 27743), (183, 27755),

Gene: Ekhein_32 Start: 37342, Stop: 37863, Start Num: 52

Candidate Starts for Ekhein_32:

(Start: 52 @37342 has 16 MA's), (Start: 78 @37396 has 43 MA's), (Start: 84 @37408 has 3 MA's), (Start: 97 @37429 has 3 MA's), (124, 37513), (147, 37597), (160, 37648), (165, 37660), (180, 37720), (196, 37777), (208, 37810), (210, 37825),

Gene: Ellie_29 Start: 27400, Stop: 27864, Start Num: 64

Candidate Starts for Ellie_29:

(33, 27277), (Start: 64 @27400 has 9 MA's), (Start: 82 @27430 has 3 MA's), (Start: 84 @27433 has 3 MA's), (90, 27445), (Start: 100 @27460 has 5 MA's), (115, 27514), (116, 27520), (128, 27547), (141, 27601), (158, 27664), (179, 27742),

Gene: Emerson_32 Start: 27337, Stop: 27777, Start Num: 65

Candidate Starts for Emerson_32:

(24, 27100), (42, 27274), (Start: 65 @27337 has 123 MA's), (Start: 82 @27367 has 3 MA's), (86, 27373), (Start: 89 @27379 has 7 MA's), (Start: 97 @27391 has 3 MA's), (112, 27439), (116, 27457), (128, 27484), (141, 27538), (144, 27547), (158, 27601), (165, 27622), (179, 27679), (189, 27712), (217, 27769),

Gene: Engineer_53 Start: 33314, Stop: 33721, Start Num: 105

Candidate Starts for Engineer_53:

(Start: 105 @33314 has 16 MA's), (120, 33377), (122, 33380), (152, 33482), (179, 33593), (192, 33635), (219, 33710),

Gene: Enkosi_28 Start: 26747, Stop: 27205, Start Num: 65

Candidate Starts for Enkosi_28:

(28, 26528), (Start: 65 @26747 has 123 MA's), (Start: 82 @26777 has 3 MA's), (86, 26783), (Start: 97 @26801 has 3 MA's), (115, 26861), (124, 26885), (128, 26894), (129, 26897), (132, 26909), (141, 26948), (144, 26957), (145, 26960), (158, 27011), (165, 27032), (169, 27047), (179, 27089), (183, 27101),

Gene: Epah_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for Epah_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: Eponine_35 Start: 29224, Stop: 29622, Start Num: 83

Candidate Starts for Eponine_35:

(39, 29104), (Start: 83 @29224 has 49 MA's), (Start: 97 @29245 has 3 MA's), (102, 29254), (129, 29341), (133, 29356), (148, 29416), (150, 29422), (154, 29440), (160, 29464), (167, 29485), (171, 29497), (173, 29506), (175, 29521), (182, 29542), (200, 29602),

Gene: Evanesce_33 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Evanesce_33:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Eviarto_22 Start: 21074, Stop: 21430, Start Num: 104

Candidate Starts for Eviarto_22:

(Start: 104 @21074 has 35 MA's), (118, 21134), (122, 21143), (144, 21218), (160, 21281), (165, 21293), (180, 21353),

Gene: Exiguo_32 Start: 37408, Stop: 37875, Start Num: 78

Candidate Starts for Exiguo_32:

(Start: 52 @37354 has 16 MA's), (Start: 78 @37408 has 43 MA's), (Start: 84 @37420 has 3 MA's), (Start: 97 @37441 has 3 MA's), (124, 37525), (147, 37609), (160, 37660), (165, 37672), (180, 37732), (196, 37789), (208, 37822), (210, 37837),

Gene: Fanaw_15 Start: 15006, Stop: 15407, Start Num: 83

Candidate Starts for Fanaw_15:

(Start: 83 @15006 has 49 MA's), (126, 15108), (135, 15147), (142, 15171), (145, 15180), (156, 15225), (161, 15243), (167, 15261), (173, 15282), (174, 15291), (204, 15384),

Gene: Farewell_28 Start: 26686, Stop: 27078, Start Num: 97

Candidate Starts for Farewell_28:

(Start: 97 @26686 has 3 MA's), (120, 26752), (122, 26755), (142, 26818), (160, 26887), (171, 26920), (173, 26929), (189, 26989), (193, 27004), (205, 27034), (216, 27070),

Gene: Fefferhead_31 Start: 27600, Stop: 28064, Start Num: 64

Candidate Starts for Fefferhead_31:

(33, 27477), (Start: 64 @27600 has 9 MA's), (Start: 82 @27630 has 3 MA's), (Start: 84 @27633 has 3 MA's), (90, 27645), (Start: 100 @27660 has 5 MA's), (115, 27714), (116, 27720), (128, 27747), (141, 27801), (158, 27864), (179, 27942),

Gene: FelixAlejandro_37 Start: 39623, Stop: 40090, Start Num: 78

Candidate Starts for FelixAlejandro_37:

(Start: 52 @39569 has 16 MA's), (Start: 78 @39623 has 43 MA's), (Start: 84 @39635 has 3 MA's), (Start: 97 @39656 has 3 MA's), (115, 39716), (124, 39740), (147, 39824), (159, 39872), (165, 39887),

(180, 39947), (196, 40004), (208, 40037), (210, 40052),

Gene: Feyre_31 Start: 27833, Stop: 28285, Start Num: 56

Candidate Starts for Feyre_31:

(Start: 56 @27833 has 16 MA's), (Start: 82 @27878 has 3 MA's), (Start: 89 @27890 has 7 MA's), (Start: 97 @27902 has 3 MA's), (112, 27950), (115, 27962), (116, 27968), (128, 27995), (141, 28049), (144, 28058), (148, 28073), (158, 28112), (165, 28133), (178, 28187), (179, 28190), (189, 28223),

Gene: Findley_30 Start: 26020, Stop: 26406, Start Num: 104

Candidate Starts for Findley_30:

(Start: 104 @26020 has 35 MA's), (Start: 105 @26023 has 16 MA's), (108, 26032), (126, 26095), (128, 26101), (131, 26110), (132, 26116), (136, 26137), (139, 26146), (141, 26155), (144, 26164), (160, 26227), (167, 26248), (172, 26266), (173, 26269),

Gene: Fionnbharth_33 Start: 28459, Stop: 28857, Start Num: 83

Candidate Starts for Fionnbharth_33:

(Start: 83 @28459 has 49 MA's), (Start: 97 @28480 has 3 MA's), (102, 28489), (129, 28576), (133, 28591), (150, 28657), (154, 28675), (160, 28699), (167, 28720), (171, 28732), (173, 28741), (175, 28756), (182, 28777),

Gene: Flakey_32 Start: 38218, Stop: 38739, Start Num: 52

Candidate Starts for Flakey_32:

(Start: 52 @38218 has 16 MA's), (Start: 78 @38272 has 43 MA's), (Start: 84 @38284 has 3 MA's), (Start: 97 @38305 has 3 MA's), (124, 38389), (147, 38473), (160, 38524), (165, 38536), (180, 38596), (196, 38653), (208, 38686), (210, 38701),

Gene: Forge_33 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Forge_33:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Fortunato_15 Start: 14970, Stop: 15371, Start Num: 83

Candidate Starts for Fortunato_15:

(Start: 83 @14970 has 49 MA's), (122, 15066), (126, 15072), (135, 15111), (142, 15135), (145, 15144), (156, 15189), (158, 15195), (161, 15207), (165, 15216), (167, 15225), (173, 15246), (174, 15255), (204, 15348),

Gene: Fowlmouth_30 Start: 29190, Stop: 29609, Start Num: 84

Candidate Starts for Fowlmouth_30:

(55, 29136), (Start: 84 @29190 has 3 MA's), (91, 29205), (106, 29229), (112, 29262), (199, 29559), (205, 29571), (209, 29589),

Gene: Frederick_15 Start: 14979, Stop: 15380, Start Num: 83

Candidate Starts for Frederick_15:

(Start: 83 @14979 has 49 MA's), (122, 15075), (126, 15081), (135, 15120), (142, 15144), (145, 15153), (156, 15198), (158, 15204), (161, 15216), (165, 15225), (167, 15234), (173, 15255), (174, 15264), (204, 15357),

Gene: Fresco_14 Start: 12949, Stop: 13329, Start Num: 95

Candidate Starts for Fresco_14:

(Start: 95 @12949 has 5 MA's), (122, 13024), (132, 13051), (150, 13120), (169, 13189), (173, 13204), (190, 13267), (194, 13282),

Gene: Frickyeah_23 Start: 19960, Stop: 20334, Start Num: 104

Candidate Starts for Frickyeah_23:

(Start: 99 @19954 has 15 MA's), (Start: 104 @19960 has 35 MA's), (117, 20017), (118, 20020), (122, 20029), (144, 20104), (150, 20125), (160, 20167), (161, 20170), (189, 20269),

Gene: GMA2_39 Start: 41812, Stop: 42174, Start Num: 105

Candidate Starts for GMA2_39:

(Start: 105 @41812 has 16 MA's), (Start: 107 @41818 has 1 MA's), (115, 41857), (120, 41875), (137, 41929), (165, 42034), (181, 42097),

Gene: GMA3_27 Start: 36415, Stop: 36849, Start Num: 67

Candidate Starts for GMA3_27:

(67, 36415), (114, 36520), (115, 36523), (144, 36619), (146, 36628), (155, 36661), (169, 36709), (180, 36751),

Gene: GMA7_26 Start: 32429, Stop: 32848, Start Num: 78

Candidate Starts for GMA7_26:

(Start: 78 @32429 has 43 MA's), (114, 32501), (120, 32522), (127, 32534), (129, 32540), (155, 32642), (165, 32675), (166, 32681), (176, 32723), (191, 32777), (196, 32792), (210, 32840),

Gene: GTE7_26 Start: 32460, Stop: 32879, Start Num: 78

Candidate Starts for GTE7_26:

(Start: 78 @32460 has 43 MA's), (114, 32532), (120, 32553), (127, 32565), (129, 32571), (155, 32673), (165, 32706), (166, 32712), (176, 32754), (191, 32808), (196, 32823), (210, 32871),

Gene: Gadget_18 Start: 14570, Stop: 15004, Start Num: 70

Candidate Starts for Gadget_18:

(38, 14465), (Start: 70 @14570 has 47 MA's), (103, 14624), (122, 14690), (177, 14891), (178, 14894),

Gene: GalacticEye_33 Start: 39653, Stop: 40090, Start Num: 78

Candidate Starts for GalacticEye_33:

(Start: 52 @39599 has 16 MA's), (Start: 78 @39653 has 43 MA's), (Start: 84 @39665 has 3 MA's), (Start: 97 @39686 has 3 MA's), (115, 39746), (122, 39767), (161, 39908), (180, 39977),

Gene: Gancho_33 Start: 29319, Stop: 29729, Start Num: 76

Candidate Starts for Gancho_33:

(Start: 76 @29319 has 22 MA's), (115, 29421), (135, 29487), (139, 29499), (142, 29511), (148, 29532), (172, 29619), (199, 29712),

Gene: Ganymede_33 Start: 27357, Stop: 27806, Start Num: 65

Candidate Starts for Ganymede_33:

(24, 27120), (42, 27294), (Start: 65 @27357 has 123 MA's), (Start: 82 @27387 has 3 MA's), (86, 27393), (Start: 89 @27399 has 7 MA's), (Start: 97 @27411 has 3 MA's), (112, 27459), (116, 27477), (128, 27504), (141, 27558), (144, 27567), (158, 27621), (165, 27642), (179, 27699),

Gene: Geeche_50 Start: 32730, Stop: 33137, Start Num: 105

Candidate Starts for Geeche_50:

(Start: 105 @32730 has 16 MA's), (120, 32793), (122, 32796), (152, 32898), (179, 33009), (192, 33051), (219, 33126),

Gene: Gengar_31 Start: 27943, Stop: 28395, Start Num: 56

Candidate Starts for Gengar_31:

(Start: 56 @27943 has 16 MA's), (Start: 82 @27988 has 3 MA's), (Start: 89 @28000 has 7 MA's), (Start: 97 @28012 has 3 MA's), (112, 28060), (115, 28072), (116, 28078), (128, 28105), (141, 28159), (144, 28168), (148, 28183), (158, 28222), (165, 28243), (178, 28297), (179, 28300), (189, 28333),

Gene: Geraldini_32 Start: 27354, Stop: 27794, Start Num: 65

Candidate Starts for Geraldini_32:

(24, 27117), (42, 27291), (Start: 65 @27354 has 123 MA's), (Start: 82 @27384 has 3 MA's), (86, 27390), (Start: 89 @27396 has 7 MA's), (Start: 97 @27408 has 3 MA's), (112, 27456), (116, 27474), (128, 27501), (141, 27555), (144, 27564), (158, 27618), (165, 27639), (179, 27696), (189, 27729), (217, 27786),

Gene: Gervas_17 Start: 14549, Stop: 14983, Start Num: 70

Candidate Starts for Gervas_17:

(38, 14444), (Start: 70 @14549 has 47 MA's), (103, 14603), (122, 14669), (177, 14870), (178, 14873),

Gene: Getalong_25 Start: 20997, Stop: 21371, Start Num: 104

Candidate Starts for Getalong_25:

(Start: 99 @20991 has 15 MA's), (Start: 104 @20997 has 35 MA's), (117, 21054), (118, 21057), (136, 21114), (150, 21162), (160, 21204), (161, 21207), (189, 21306),

Gene: Gibbles_29 Start: 35291, Stop: 35674, Start Num: 98

Candidate Starts for Gibbles_29:

(Start: 98 @35291 has 5 MA's), (129, 35387), (161, 35513), (167, 35531), (173, 35552),

Gene: Giles_33 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Giles_33:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: GinPorsche_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for GinPorsche_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: GlenHope_18 Start: 14556, Stop: 14990, Start Num: 70

Candidate Starts for GlenHope_18:

(38, 14451), (Start: 70 @14556 has 47 MA's), (103, 14610), (122, 14676), (177, 14877), (178, 14880),

Gene: Gmala1_27 Start: 34646, Stop: 35092, Start Num: 87

Candidate Starts for Gmala1_27:

(66, 34610), (Start: 84 @34640 has 3 MA's), (Start: 87 @34646 has 2 MA's), (114, 34721), (145, 34823), (147, 34832), (165, 34895),

Gene: GordDuk1_27 Start: 34584, Stop: 35030, Start Num: 87

Candidate Starts for GordDuk1_27:

(Start: 84 @34578 has 3 MA's), (Start: 87 @34584 has 2 MA's), (114, 34659), (145, 34761), (147, 34770), (165, 34833),

Gene: GordTnk2_27 Start: 34553, Stop: 34999, Start Num: 87

Candidate Starts for GordTnk2_27:

(66, 34517), (Start: 84 @34547 has 3 MA's), (Start: 87 @34553 has 2 MA's), (114, 34628), (145, 34730), (147, 34739), (165, 34802),

Gene: Gorko_32 Start: 37346, Stop: 37867, Start Num: 52

Candidate Starts for Gorko_32:

(Start: 52 @37346 has 16 MA's), (Start: 78 @37400 has 43 MA's), (Start: 84 @37412 has 3 MA's), (Start: 97 @37433 has 3 MA's), (124, 37517), (147, 37601), (160, 37652), (165, 37664), (180, 37724), (196, 37781), (208, 37814), (210, 37829),

Gene: GourdThymes_32 Start: 38220, Stop: 38741, Start Num: 52

Candidate Starts for GourdThymes_32:

(Start: 52 @38220 has 16 MA's), (Start: 78 @38274 has 43 MA's), (Start: 84 @38286 has 3 MA's), (Start: 97 @38307 has 3 MA's), (124, 38391), (147, 38475), (160, 38526), (165, 38538), (180, 38598), (196, 38655), (208, 38688), (210, 38703),

Gene: Gravaillia_33 Start: 29325, Stop: 29735, Start Num: 76

Candidate Starts for Gravaillia_33:

(Start: 76 @29325 has 22 MA's), (115, 29427), (135, 29493), (139, 29505), (142, 29517), (148, 29538), (172, 29625), (199, 29718),

Gene: Guanica15_32 Start: 26599, Stop: 27048, Start Num: 65

Candidate Starts for Guanica15_32:

(Start: 65 @26599 has 123 MA's), (Start: 82 @26629 has 3 MA's), (86, 26635), (Start: 89 @26641 has 7 MA's), (Start: 97 @26653 has 3 MA's), (112, 26701), (115, 26713), (128, 26746), (129, 26749), (141, 26800), (144, 26809), (158, 26863), (165, 26884), (169, 26899), (179, 26941), (215, 27040),

Gene: Guillaume_33 Start: 39703, Stop: 40140, Start Num: 78

Candidate Starts for Guillaume_33:

(Start: 52 @39649 has 16 MA's), (Start: 78 @39703 has 43 MA's), (Start: 84 @39715 has 3 MA's), (Start: 97 @39736 has 3 MA's), (115, 39796), (122, 39817), (161, 39958), (180, 40027),

Gene: Guillsminger_31 Start: 27915, Stop: 28367, Start Num: 56

Candidate Starts for Guillsminger_31:

(Start: 56 @27915 has 16 MA's), (Start: 82 @27960 has 3 MA's), (Start: 89 @27972 has 7 MA's), (Start: 97 @27984 has 3 MA's), (112, 28032), (115, 28044), (116, 28050), (128, 28077), (141, 28131), (144, 28140), (148, 28155), (158, 28194), (165, 28215), (178, 28269), (179, 28272), (189, 28305),

Gene: HH92_33 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for HH92_33:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Hadrien_34 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Hadrien_34:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Hail_33 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Hail_33:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Hail2Pitt_33 Start: 40180, Stop: 40617, Start Num: 78

Candidate Starts for Hail2Pitt_33:

(Start: 52 @40126 has 16 MA's), (Start: 78 @40180 has 43 MA's), (Start: 84 @40192 has 3 MA's), (Start: 97 @40213 has 3 MA's), (115, 40273), (122, 40294), (161, 40435), (180, 40504),

Gene: Halfpint_16 Start: 14391, Stop: 14825, Start Num: 70

Candidate Starts for Halfpint_16:

(38, 14286), (Start: 70 @14391 has 47 MA's), (103, 14445), (122, 14511), (177, 14712), (178, 14715),

Gene: Hally898_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for Hally898_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (144, 14083), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: Hammy_31 Start: 27634, Stop: 28098, Start Num: 64

Candidate Starts for Hammy_31:

(Start: 56 @27619 has 16 MA's), (Start: 64 @27634 has 9 MA's), (Start: 82 @27664 has 3 MA's), (Start: 84 @27667 has 3 MA's), (Start: 97 @27688 has 3 MA's), (116, 27754), (128, 27781), (141, 27835), (158, 27898), (179, 27976), (183, 27988),

Gene: Hangman_15 Start: 14979, Stop: 15380, Start Num: 83

Candidate Starts for Hangman_15:

(Start: 83 @14979 has 49 MA's), (126, 15081), (135, 15120), (142, 15144), (145, 15153), (156, 15198), (161, 15216), (167, 15234), (173, 15255), (174, 15264), (204, 15357),

Gene: Harambe_33 Start: 39970, Stop: 40407, Start Num: 78

Candidate Starts for Harambe_33:

(Start: 52 @39916 has 16 MA's), (Start: 78 @39970 has 43 MA's), (Start: 84 @39982 has 3 MA's), (Start: 97 @40003 has 3 MA's), (115, 40063), (122, 40084), (161, 40225), (180, 40294),

Gene: HayZem_35 Start: 38212, Stop: 38631, Start Num: 78

Candidate Starts for HayZem_35:

(Start: 78 @38212 has 43 MA's), (114, 38284), (120, 38305), (127, 38317), (129, 38323), (155, 38425), (165, 38458), (166, 38464), (176, 38506), (191, 38560), (196, 38575), (210, 38623),

Gene: Heath_15 Start: 14976, Stop: 15377, Start Num: 83

Candidate Starts for Heath_15:

(Start: 83 @14976 has 49 MA's), (126, 15078), (135, 15117), (142, 15141), (145, 15150), (156, 15195), (158, 15201), (167, 15231), (173, 15252), (174, 15261), (204, 15354),

Gene: Heathcliff_17 Start: 14528, Stop: 14962, Start Num: 70

Candidate Starts for Heathcliff_17:

(38, 14423), (Start: 70 @14528 has 47 MA's), (103, 14582), (122, 14648), (177, 14849), (178, 14852),

Gene: HedwigODU_32 Start: 27346, Stop: 27786, Start Num: 65

Candidate Starts for HedwigODU_32:

(24, 27109), (42, 27283), (Start: 65 @27346 has 123 MA's), (Start: 82 @27376 has 3 MA's), (86, 27382), (Start: 89 @27388 has 7 MA's), (Start: 97 @27400 has 3 MA's), (112, 27448), (116, 27466), (128, 27493), (141, 27547), (157, 27607), (158, 27610), (165, 27631), (179, 27688), (189, 27721), (217, 27778),

Gene: Heftyboy_31 Start: 28061, Stop: 28513, Start Num: 56

Candidate Starts for Heftyboy_31:

(Start: 56 @28061 has 16 MA's), (Start: 82 @28106 has 3 MA's), (Start: 89 @28118 has 7 MA's), (Start: 97 @28130 has 3 MA's), (112, 28178), (115, 28190), (116, 28196), (128, 28223), (129, 28226), (141, 28277), (144, 28286), (148, 28301), (158, 28340), (165, 28361), (178, 28415), (179, 28418),

(189, 28451),

Gene: Hello_33 Start: 39932, Stop: 40369, Start Num: 78

Candidate Starts for Hello_33:

(Start: 52 @39878 has 16 MA's), (Start: 78 @39932 has 43 MA's), (Start: 84 @39944 has 3 MA's), (Start: 97 @39965 has 3 MA's), (115, 40025), (122, 40046), (161, 40187), (180, 40256),

Gene: Herod_22 Start: 21074, Stop: 21430, Start Num: 104

Candidate Starts for Herod_22:

(Start: 104 @21074 has 35 MA's), (118, 21134), (122, 21143), (144, 21218), (160, 21281), (165, 21293), (180, 21353),

Gene: Hilltopfarm_33 Start: 30365, Stop: 30721, Start Num: 105

Candidate Starts for Hilltopfarm_33:

(41, 30215), (Start: 105 @30365 has 16 MA's), (112, 30398), (129, 30446), (132, 30458), (137, 30482), (141, 30497), (147, 30518), (155, 30548), (160, 30569), (161, 30572), (179, 30638), (182, 30647), (186, 30659),

Gene: Holliday_24 Start: 20296, Stop: 20676, Start Num: 99

Candidate Starts for Holliday_24:

(4, 19807), (15, 19918), (18, 19936), (Start: 99 @20296 has 15 MA's), (Start: 104 @20302 has 35 MA's), (117, 20359), (118, 20362), (122, 20371), (144, 20446), (160, 20509), (161, 20512), (165, 20521), (180, 20581), (181, 20584),

Gene: Hollow_32 Start: 39444, Stop: 39878, Start Num: 81

Candidate Starts for Hollow_32:

(Start: 81 @39444 has 7 MA's), (Start: 97 @39465 has 3 MA's), (114, 39516), (157, 39666), (167, 39699), (170, 39708), (180, 39747), (182, 39753), (184, 39759), (185, 39765), (186, 39768), (204, 39828),

Gene: Homura_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Homura_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Horus_24 Start: 20213, Stop: 20593, Start Num: 99

Candidate Starts for Horus_24:

(Start: 99 @20213 has 15 MA's), (Start: 104 @20219 has 35 MA's), (117, 20276), (118, 20279), (144, 20363), (150, 20384), (160, 20426), (161, 20429), (189, 20528),

Gene: Hotorobo_32 Start: 38225, Stop: 38746, Start Num: 52

Candidate Starts for Hotorobo_32:

(Start: 52 @38225 has 16 MA's), (Start: 78 @38279 has 43 MA's), (Start: 84 @38291 has 3 MA's), (Start: 97 @38312 has 3 MA's), (124, 38396), (147, 38480), (160, 38531), (165, 38543), (180, 38603), (196, 38660), (208, 38693), (210, 38708),

Gene: Hugley_22 Start: 21074, Stop: 21430, Start Num: 104

Candidate Starts for Hugley_22:

(Start: 104 @21074 has 35 MA's), (118, 21134), (122, 21143), (144, 21218), (160, 21281), (165, 21293), (180, 21353),

Gene: Hurricane_33 Start: 28195, Stop: 28641, Start Num: 65

Candidate Starts for Hurricane_33:

(53, 28162), (Start: 65 @28195 has 123 MA's), (Start: 82 @28225 has 3 MA's), (116, 28315), (128, 28342), (129, 28345), (137, 28381), (141, 28396), (158, 28459), (167, 28489), (179, 28537),

Gene: Hydro_15 Start: 14976, Stop: 15377, Start Num: 83

Candidate Starts for Hydro_15:

(Start: 83 @14976 has 49 MA's), (126, 15078), (135, 15117), (142, 15141), (145, 15150), (156, 15195), (161, 15213), (167, 15231), (173, 15252), (174, 15261), (204, 15354),

Gene: Hyperbowlee_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Hyperbowlee_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: IdentityCrisis_27 Start: 23066, Stop: 23467, Start Num: 94

Candidate Starts for IdentityCrisis_27:

(Start: 94 @23066 has 4 MA's), (120, 23141), (122, 23144), (142, 23207), (160, 23276), (171, 23309), (173, 23318), (189, 23378), (193, 23393), (205, 23423), (216, 23459),

Gene: Illumine_32 Start: 27353, Stop: 27793, Start Num: 65

Candidate Starts for Illumine_32:

(Start: 65 @27353 has 123 MA's), (Start: 82 @27383 has 3 MA's), (86, 27389), (Start: 89 @27395 has 7 MA's), (Start: 97 @27407 has 3 MA's), (112, 27455), (116, 27473), (128, 27500), (137, 27539), (141, 27554), (144, 27563), (158, 27617), (179, 27695), (217, 27785),

Gene: Inky_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Inky_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: InvictusManeo_31 Start: 27989, Stop: 28441, Start Num: 56

Candidate Starts for InvictusManeo_31:

(3, 27476), (4, 27590), (Start: 56 @27989 has 16 MA's), (Start: 58 @27992 has 3 MA's), (Start: 82 @28034 has 3 MA's), (Start: 89 @28046 has 7 MA's), (Start: 97 @28058 has 3 MA's), (112, 28106), (115, 28118), (116, 28124), (124, 28142), (128, 28151), (141, 28205), (144, 28214), (148, 28229), (158, 28268), (160, 28277), (165, 28289), (175, 28334), (178, 28343), (179, 28346), (186, 28367), (189, 28379),

Gene: JAMaL_15 Start: 15160, Stop: 15561, Start Num: 83

Candidate Starts for JAMaL_15:

(Start: 83 @15160 has 49 MA's), (126, 15262), (142, 15325), (156, 15379), (161, 15397), (165, 15406), (167, 15415), (172, 15433), (174, 15445),

Gene: JAWS_32 Start: 27331, Stop: 27771, Start Num: 65

Candidate Starts for JAWS_32:

(22, 27082), (42, 27268), (Start: 65 @27331 has 123 MA's), (Start: 82 @27361 has 3 MA's), (86, 27367), (Start: 89 @27373 has 7 MA's), (Start: 97 @27385 has 3 MA's), (112, 27433), (116, 27451), (128, 27478), (141, 27532), (144, 27541), (157, 27592), (158, 27595), (179, 27673), (189, 27706), (217, 27763),

Gene: JF1_33 Start: 28458, Stop: 28856, Start Num: 83

Candidate Starts for JF1_33:

(Start: 83 @28458 has 49 MA's), (Start: 97 @28479 has 3 MA's), (102, 28488), (129, 28575), (133, 28590), (137, 28611), (150, 28656), (154, 28674), (160, 28698), (167, 28719), (171, 28731), (173, 28740), (175, 28755), (182, 28776),

Gene: Jackstina_16 Start: 14492, Stop: 14926, Start Num: 70

Candidate Starts for Jackstina_16:

(38, 14387), (Start: 70 @14492 has 47 MA's), (103, 14546), (122, 14612), (177, 14813), (178, 14816),

Gene: JaguarMi_16 Start: 14806, Stop: 15207, Start Num: 83

Candidate Starts for JaguarMi_16:

(Start: 83 @14806 has 49 MA's), (126, 14908), (135, 14947), (142, 14971), (145, 14980), (156, 15025), (161, 15043), (165, 15052), (167, 15061), (173, 15082), (174, 15091), (204, 15184),

Gene: Jams_33 Start: 39141, Stop: 39578, Start Num: 78

Candidate Starts for Jams_33:

(Start: 52 @39087 has 16 MA's), (Start: 78 @39141 has 43 MA's), (Start: 84 @39153 has 3 MA's), (Start: 97 @39174 has 3 MA's), (115, 39234), (122, 39255), (161, 39396), (180, 39465),

Gene: Jarvi_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Jarvi_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Jayhawk_32 Start: 27344, Stop: 27784, Start Num: 65

Candidate Starts for Jayhawk_32:

(24, 27107), (42, 27281), (Start: 65 @27344 has 123 MA's), (Start: 82 @27374 has 3 MA's), (86, 27380), (Start: 89 @27386 has 7 MA's), (Start: 97 @27398 has 3 MA's), (112, 27446), (116, 27464), (128, 27491), (141, 27545), (157, 27605), (158, 27608), (165, 27629), (179, 27686), (189, 27719), (217, 27776),

Gene: Jeckyll_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Jeckyll_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Jellybones_36 Start: 39484, Stop: 39951, Start Num: 78

Candidate Starts for Jellybones_36:

(Start: 52 @39430 has 16 MA's), (Start: 78 @39484 has 43 MA's), (Start: 84 @39496 has 3 MA's), (Start: 97 @39517 has 3 MA's), (115, 39577), (124, 39601), (147, 39685), (160, 39736), (165, 39748), (180, 39808), (196, 39865), (208, 39898), (210, 39913),

Gene: John316_36 Start: 39437, Stop: 39904, Start Num: 78

Candidate Starts for John316_36:

(Start: 52 @39383 has 16 MA's), (Start: 78 @39437 has 43 MA's), (Start: 84 @39449 has 3 MA's), (Start: 97 @39470 has 3 MA's), (124, 39554), (147, 39638), (160, 39689), (165, 39701), (180, 39761), (196, 39818), (208, 39851), (210, 39866),

Gene: JonJames_51 Start: 37099, Stop: 37509, Start Num: 74

Candidate Starts for JonJames_51:

(Start: 74 @37099 has 2 MA's), (119, 37210), (132, 37243), (137, 37267), (182, 37432),

Gene: Jormungandr_33 Start: 39685, Stop: 40122, Start Num: 78

Candidate Starts for Jormungandr_33:

(Start: 52 @39631 has 16 MA's), (Start: 78 @39685 has 43 MA's), (Start: 84 @39697 has 3 MA's),
(Start: 97 @39718 has 3 MA's), (115, 39778), (122, 39799), (161, 39940), (180, 40009),

Gene: Joy99_32 Start: 27306, Stop: 27746, Start Num: 65

Candidate Starts for Joy99_32:

(42, 27243), (Start: 65 @27306 has 123 MA's), (Start: 82 @27336 has 3 MA's), (86, 27342), (Start: 89
@27348 has 7 MA's), (Start: 97 @27360 has 3 MA's), (112, 27408), (116, 27426), (128, 27453), (141,
27507), (144, 27516), (158, 27570), (165, 27591), (179, 27648), (189, 27681), (217, 27738),

Gene: Juliette_35 Start: 28617, Stop: 29015, Start Num: 83

Candidate Starts for Juliette_35:

(Start: 83 @28617 has 49 MA's), (Start: 97 @28638 has 3 MA's), (102, 28647), (129, 28734), (133,
28749), (148, 28809), (150, 28815), (154, 28833), (160, 28857), (167, 28878), (171, 28890), (173,
28899), (175, 28914), (200, 28995),

Gene: Jumbo_34 Start: 40874, Stop: 41350, Start Num: 60

Candidate Starts for Jumbo_34:

(Start: 60 @40874 has 3 MA's), (73, 40892), (114, 40991), (116, 41000), (118, 41006), (138, 41069),
(144, 41090), (145, 41093), (160, 41153), (161, 41156), (167, 41174), (193, 41270), (196, 41279),

Gene: Kamaru_24 Start: 20302, Stop: 20676, Start Num: 104

Candidate Starts for Kamaru_24:

(4, 19807), (15, 19918), (18, 19936), (Start: 99 @20296 has 15 MA's), (Start: 104 @20302 has 35
MA's), (117, 20359), (118, 20362), (122, 20371), (144, 20446), (160, 20509), (161, 20512), (165,
20521), (180, 20581), (181, 20584),

Gene: Kamiyu_17 Start: 14537, Stop: 14971, Start Num: 70

Candidate Starts for Kamiyu_17:

(38, 14432), (Start: 70 @14537 has 47 MA's), (103, 14591), (122, 14657), (177, 14858), (178, 14861),

Gene: Kampe_30 Start: 35152, Stop: 35535, Start Num: 98

Candidate Starts for Kampe_30:

(Start: 98 @35152 has 5 MA's), (129, 35248), (161, 35374), (167, 35392), (173, 35413),

Gene: Kaseim_34 Start: 39126, Stop: 39563, Start Num: 78

Candidate Starts for Kaseim_34:

(Start: 52 @39072 has 16 MA's), (Start: 78 @39126 has 43 MA's), (Start: 84 @39138 has 3 MA's),
(Start: 97 @39159 has 3 MA's), (115, 39219), (122, 39240), (161, 39381), (180, 39450),

Gene: Katyusha_31 Start: 39098, Stop: 39532, Start Num: 81

Candidate Starts for Katyusha_31:

(Start: 81 @39098 has 7 MA's), (Start: 97 @39119 has 3 MA's), (108, 39137), (114, 39170), (157,
39320), (161, 39335), (178, 39395), (180, 39401), (182, 39407), (204, 39482),

Gene: Kenna_23 Start: 20192, Stop: 20569, Start Num: 99

Candidate Starts for Kenna_23:

(Start: 99 @20192 has 15 MA's), (Start: 104 @20198 has 35 MA's), (117, 20255), (118, 20258), (122,
20267), (144, 20342), (150, 20363), (160, 20405), (161, 20408), (165, 20417), (180, 20477), (181,

20480),

Gene: Keshu_33 Start: 28183, Stop: 28629, Start Num: 65

Candidate Starts for Keshu_33:

(Start: 65 @28183 has 123 MA's), (Start: 82 @28213 has 3 MA's), (Start: 98 @28240 has 5 MA's), (116, 28303), (128, 28330), (129, 28333), (137, 28369), (141, 28384), (144, 28393), (158, 28447), (167, 28477), (179, 28525),

Gene: KiSi_31 Start: 26374, Stop: 26829, Start Num: 65

Candidate Starts for KiSi_31:

(Start: 65 @26374 has 123 MA's), (Start: 82 @26404 has 3 MA's), (Start: 84 @26407 has 3 MA's), (Start: 98 @26431 has 5 MA's), (116, 26494), (128, 26521), (129, 26524), (141, 26575), (158, 26638), (179, 26716), (183, 26728), (185, 26734),

Gene: Kiko_24 Start: 20229, Stop: 20624, Start Num: 92

Candidate Starts for Kiko_24:

(1, 19326), (2, 19548), (7, 19797), (9, 19827), (46, 20112), (Start: 92 @20229 has 1 MA's), (Start: 104 @20247 has 35 MA's), (122, 20316), (130, 20334), (133, 20346), (136, 20364), (144, 20391), (160, 20454), (161, 20457), (180, 20526),

Gene: Kinbote_34 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Kinbote_34:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Konstantine_40 Start: 33596, Stop: 34045, Start Num: 80

Candidate Starts for Konstantine_40:

(Start: 75 @33584 has 8 MA's), (Start: 80 @33596 has 1 MA's), (93, 33620), (Start: 107 @33647 has 1 MA's), (119, 33704), (120, 33707), (125, 33713), (127, 33719), (130, 33728), (132, 33737), (148, 33800), (149, 33803), (157, 33839), (168, 33875), (173, 33893), (187, 33944), (197, 33980), (213, 34025),

Gene: Kratio_30 Start: 27620, Stop: 28072, Start Num: 56

Candidate Starts for Kratio_30:

(3, 27107), (4, 27221), (Start: 56 @27620 has 16 MA's), (Start: 58 @27623 has 3 MA's), (Start: 82 @27665 has 3 MA's), (Start: 89 @27677 has 7 MA's), (Start: 97 @27689 has 3 MA's), (112, 27737), (115, 27749), (116, 27755), (124, 27773), (128, 27782), (141, 27836), (144, 27845), (148, 27860), (158, 27899), (160, 27908), (165, 27920), (178, 27974), (179, 27977), (186, 27998), (189, 28010),

Gene: Kraw_34 Start: 28383, Stop: 28781, Start Num: 83

Candidate Starts for Kraw_34:

(Start: 83 @28383 has 49 MA's), (Start: 97 @28404 has 3 MA's), (102, 28413), (129, 28500), (133, 28515), (150, 28581), (154, 28599), (160, 28623), (167, 28644), (171, 28656), (173, 28665), (175, 28680), (182, 28701), (185, 28710),

Gene: Kronus_16 Start: 15149, Stop: 15583, Start Num: 70

Candidate Starts for Kronus_16:

(38, 15044), (Start: 70 @15149 has 47 MA's), (103, 15203), (122, 15269), (177, 15470), (178, 15473),

Gene: Krueger_32 Start: 26494, Stop: 26958, Start Num: 65

Candidate Starts for Krueger_32:

(Start: 65 @26494 has 123 MA's), (Start: 78 @26515 has 43 MA's), (Start: 82 @26524 has 3 MA's), (Start: 84 @26527 has 3 MA's), (115, 26608), (116, 26614), (128, 26641), (141, 26695), (158, 26758),

(165, 26779), (179, 26836), (183, 26848),

Gene: Kuwabara_23 Start: 19624, Stop: 19995, Start Num: 104

Candidate Starts for Kuwabara_23:

(Start: 99 @19618 has 15 MA's), (Start: 104 @19624 has 35 MA's), (117, 19681), (118, 19684), (144, 19768), (150, 19789), (160, 19831), (161, 19834), (165, 19843), (180, 19903), (181, 19906),

Gene: Kvothe_31 Start: 38997, Stop: 39431, Start Num: 81

Candidate Starts for Kvothe_31:

(Start: 81 @38997 has 7 MA's), (Start: 97 @39018 has 3 MA's), (108, 39036), (114, 39069), (157, 39219), (161, 39234), (167, 39252), (171, 39264), (180, 39300), (182, 39306), (204, 39381),

Gene: Lahirium_33 Start: 40207, Stop: 40644, Start Num: 78

Candidate Starts for Lahirium_33:

(Start: 52 @40153 has 16 MA's), (Start: 78 @40207 has 43 MA's), (Start: 84 @40219 has 3 MA's), (Start: 97 @40240 has 3 MA's), (115, 40300), (122, 40321), (161, 40462), (180, 40531),

Gene: Lambano_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for Lambano_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: Larva_32 Start: 27784, Stop: 28236, Start Num: 56

Candidate Starts for Larva_32:

(Start: 56 @27784 has 16 MA's), (Start: 58 @27787 has 3 MA's), (Start: 82 @27829 has 3 MA's), (Start: 89 @27841 has 7 MA's), (Start: 97 @27853 has 3 MA's), (112, 27901), (115, 27913), (116, 27919), (124, 27937), (128, 27946), (144, 28009), (148, 28024), (158, 28063), (160, 28072), (165, 28084), (178, 28138), (179, 28141), (186, 28162), (189, 28174),

Gene: LastHope_32 Start: 26463, Stop: 26915, Start Num: 65

Candidate Starts for LastHope_32:

(20, 26205), (33, 26340), (42, 26400), (Start: 65 @26463 has 123 MA's), (Start: 82 @26493 has 3 MA's), (86, 26499), (Start: 89 @26505 has 7 MA's), (Start: 97 @26517 has 3 MA's), (112, 26565), (115, 26577), (128, 26610), (129, 26613), (141, 26664), (144, 26673), (158, 26727), (160, 26736), (165, 26748), (179, 26805),

Gene: LaterM_32 Start: 27270, Stop: 27710, Start Num: 65

Candidate Starts for LaterM_32:

(24, 27033), (Start: 65 @27270 has 123 MA's), (Start: 82 @27300 has 3 MA's), (86, 27306), (Start: 89 @27312 has 7 MA's), (Start: 97 @27324 has 3 MA's), (112, 27372), (116, 27390), (128, 27417), (137, 27456), (141, 27471), (144, 27480), (158, 27534), (179, 27612), (217, 27702),

Gene: LeMond_31 Start: 26445, Stop: 26900, Start Num: 65

Candidate Starts for LeMond_31:

(Start: 65 @26445 has 123 MA's), (Start: 82 @26475 has 3 MA's), (Start: 84 @26478 has 3 MA's), (Start: 98 @26502 has 5 MA's), (116, 26565), (128, 26592), (129, 26595), (141, 26646), (158, 26709), (179, 26787), (185, 26805),

Gene: Leroy_24 Start: 20214, Stop: 20594, Start Num: 99

Candidate Starts for Leroy_24:

(Start: 99 @20214 has 15 MA's), (Start: 104 @20220 has 35 MA's), (117, 20277), (118, 20280), (144, 20364), (150, 20385), (160, 20427), (161, 20430), (189, 20529),

Gene: Leston_31 Start: 28090, Stop: 28497, Start Num: 82

Candidate Starts for Leston_31:

(Start: 56 @28045 has 16 MA's), (Start: 82 @28090 has 3 MA's), (Start: 89 @28102 has 7 MA's), (Start: 97 @28114 has 3 MA's), (112, 28162), (115, 28174), (116, 28180), (128, 28207), (141, 28261), (144, 28270), (148, 28285), (158, 28324), (165, 28345), (178, 28399), (179, 28402), (189, 28435),

Gene: LestyG_17 Start: 14570, Stop: 15004, Start Num: 70

Candidate Starts for LestyG_17:

(38, 14465), (Start: 70 @14570 has 47 MA's), (103, 14624), (122, 14690), (177, 14891), (178, 14894),

Gene: Lidong_33 Start: 39941, Stop: 40378, Start Num: 78

Candidate Starts for Lidong_33:

(Start: 52 @39887 has 16 MA's), (Start: 78 @39941 has 43 MA's), (Start: 84 @39953 has 3 MA's), (Start: 97 @39974 has 3 MA's), (115, 40034), (122, 40055), (161, 40196), (180, 40265),

Gene: Ligma_14 Start: 12949, Stop: 13329, Start Num: 95

Candidate Starts for Ligma_14:

(Start: 95 @12949 has 5 MA's), (122, 13024), (132, 13051), (150, 13120), (169, 13189), (173, 13204), (190, 13267), (194, 13282),

Gene: LilHazelnut_34 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for LilHazelnut_34:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: LilPharaoh_28 Start: 26747, Stop: 27205, Start Num: 65

Candidate Starts for LilPharaoh_28:

(28, 26528), (Start: 65 @26747 has 123 MA's), (Start: 82 @26777 has 3 MA's), (86, 26783), (Start: 97 @26801 has 3 MA's), (115, 26861), (124, 26885), (128, 26894), (129, 26897), (132, 26909), (141, 26948), (144, 26957), (145, 26960), (158, 27011), (165, 27032), (169, 27047), (179, 27089), (183, 27101),

Gene: LindNT_32 Start: 27310, Stop: 27750, Start Num: 65

Candidate Starts for LindNT_32:

(24, 27073), (42, 27247), (Start: 65 @27310 has 123 MA's), (Start: 82 @27340 has 3 MA's), (86, 27346), (Start: 89 @27352 has 7 MA's), (Start: 97 @27364 has 3 MA's), (112, 27412), (116, 27430), (128, 27457), (141, 27511), (144, 27520), (158, 27574), (179, 27652), (189, 27685), (217, 27742),

Gene: Linetti_33 Start: 38505, Stop: 38972, Start Num: 78

Candidate Starts for Linetti_33:

(Start: 52 @38451 has 16 MA's), (Start: 78 @38505 has 43 MA's), (Start: 84 @38517 has 3 MA's), (Start: 97 @38538 has 3 MA's), (124, 38622), (127, 38628), (147, 38706), (160, 38757), (180, 38829), (196, 38886), (204, 38910), (208, 38919), (211, 38937),

Gene: LitninMcQueen_23 Start: 19948, Stop: 20325, Start Num: 99

Candidate Starts for LitninMcQueen_23:

(Start: 99 @19948 has 15 MA's), (Start: 104 @19954 has 35 MA's), (117, 20011), (118, 20014), (144, 20098), (150, 20119), (160, 20161), (161, 20164), (189, 20263),

Gene: LittleMunchkin_15 Start: 14381, Stop: 14770, Start Num: 89

Candidate Starts for LittleMunchkin_15:

(Start: 89 @14381 has 7 MA's), (Start: 95 @14393 has 5 MA's), (111, 14423), (132, 14495), (150, 14564), (167, 14627), (169, 14633), (190, 14711), (194, 14726),

Gene: Lizzo_32 Start: 38214, Stop: 38735, Start Num: 52

Candidate Starts for Lizzo_32:

(Start: 52 @38214 has 16 MA's), (Start: 78 @38268 has 43 MA's), (Start: 84 @38280 has 3 MA's), (Start: 97 @38301 has 3 MA's), (124, 38385), (147, 38469), (160, 38520), (165, 38532), (180, 38592), (196, 38649), (208, 38682), (210, 38697),

Gene: Llorens_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Llorens_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Lolalove_15 Start: 14976, Stop: 15377, Start Num: 83

Candidate Starts for Lolalove_15:

(Start: 83 @14976 has 49 MA's), (126, 15078), (135, 15117), (142, 15141), (145, 15150), (156, 15195), (161, 15213), (165, 15222), (167, 15231), (173, 15252), (174, 15261), (204, 15354),

Gene: LonelyBoi_23 Start: 20872, Stop: 21258, Start Num: 99

Candidate Starts for LonelyBoi_23:

(Start: 99 @20872 has 15 MA's), (Start: 104 @20878 has 35 MA's), (118, 20938), (144, 21022), (171, 21118), (180, 21157), (204, 21232),

Gene: Lozinak_52 Start: 33369, Stop: 33776, Start Num: 105

Candidate Starts for Lozinak_52:

(Start: 105 @33369 has 16 MA's), (120, 33432), (122, 33435), (152, 33537), (179, 33648), (192, 33690), (219, 33765),

Gene: Luke_34 Start: 29551, Stop: 29961, Start Num: 76

Candidate Starts for Luke_34:

(Start: 76 @29551 has 22 MA's), (115, 29653), (135, 29719), (139, 29731), (142, 29743), (148, 29764), (172, 29851), (199, 29944),

Gene: Luker_34 Start: 40160, Stop: 40597, Start Num: 78

Candidate Starts for Luker_34:

(Start: 52 @40106 has 16 MA's), (Start: 78 @40160 has 43 MA's), (Start: 84 @40172 has 3 MA's), (Start: 97 @40193 has 3 MA's), (115, 40253), (122, 40274), (161, 40415), (180, 40484),

Gene: Luna22_33 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Luna22_33:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Lunahalos_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Lunahalos_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Lutum_24 Start: 20192, Stop: 20569, Start Num: 99

Candidate Starts for Lutum_24:

(Start: 99 @20192 has 15 MA's), (Start: 104 @20198 has 35 MA's), (117, 20255), (118, 20258), (122, 20267), (144, 20342), (150, 20363), (160, 20405), (161, 20408), (165, 20417), (180, 20477), (181,

20480),

Gene: MacnCheese_33 Start: 28230, Stop: 28682, Start Num: 65

Candidate Starts for MacnCheese_33:

(53, 28197), (Start: 65 @28230 has 123 MA's), (Start: 78 @28251 has 43 MA's), (Start: 82 @28260 has 3 MA's), (116, 28350), (128, 28377), (129, 28380), (137, 28416), (141, 28431), (158, 28494), (165, 28515), (179, 28572), (183, 28584), (189, 28605), (207, 28653),

Gene: Madeline_22 Start: 21372, Stop: 21728, Start Num: 104

Candidate Starts for Madeline_22:

(27, 21066), (31, 21159), (34, 21174), (50, 21270), (Start: 104 @21372 has 35 MA's), (118, 21432), (122, 21441), (144, 21516), (160, 21579), (165, 21591), (180, 21651),

Gene: Magpie_15 Start: 15161, Stop: 15562, Start Num: 83

Candidate Starts for Magpie_15:

(Start: 83 @15161 has 49 MA's), (126, 15263), (135, 15302), (142, 15326), (145, 15335), (161, 15398), (167, 15416), (173, 15437), (174, 15446), (204, 15539),

Gene: MakoManhole_16 Start: 14381, Stop: 14782, Start Num: 71

Candidate Starts for MakoManhole_16:

(Start: 71 @14381 has 6 MA's), (85, 14402), (101, 14429), (128, 14507), (156, 14618), (165, 14645), (167, 14654), (169, 14660), (182, 14711), (188, 14729), (194, 14753), (200, 14771), (201, 14774),

Gene: MalagasyRose_32 Start: 26704, Stop: 27135, Start Num: 69

Candidate Starts for MalagasyRose_32:

(Start: 69 @26704 has 1 MA's), (Start: 76 @26713 has 22 MA's), (Start: 83 @26725 has 49 MA's), (85, 26728), (88, 26734), (Start: 97 @26746 has 3 MA's), (Start: 100 @26752 has 5 MA's), (108, 26770), (115, 26806), (116, 26812), (124, 26830), (128, 26839), (129, 26842), (139, 26884), (141, 26893), (144, 26902), (148, 26917), (158, 26956), (160, 26965), (165, 26977), (179, 27034), (186, 27055), (214, 27121),

Gene: Malibo_24 Start: 20256, Stop: 20633, Start Num: 104

Candidate Starts for Malibo_24:

(Start: 104 @20256 has 35 MA's), (118, 20316), (122, 20325), (144, 20400), (165, 20475), (180, 20535),

Gene: Malisha_25 Start: 22077, Stop: 22454, Start Num: 99

Candidate Starts for Malisha_25:

(4, 21588), (15, 21699), (18, 21717), (Start: 99 @22077 has 15 MA's), (Start: 104 @22083 has 35 MA's), (117, 22140), (122, 22152), (144, 22227), (160, 22290), (161, 22293), (169, 22317), (180, 22362), (181, 22365),

Gene: Malthus_34 Start: 28383, Stop: 28781, Start Num: 83

Candidate Starts for Malthus_34:

(Start: 83 @28383 has 49 MA's), (Start: 97 @28404 has 3 MA's), (102, 28413), (129, 28500), (133, 28515), (150, 28581), (154, 28599), (160, 28623), (167, 28644), (171, 28656), (173, 28665), (175, 28680), (182, 28701), (185, 28710),

Gene: Mao1_12 Start: 11984, Stop: 12379, Start Num: 70

Candidate Starts for Mao1_12:

(Start: 70 @11984 has 47 MA's), (91, 12017), (118, 12095), (147, 12191), (160, 12242), (162, 12248), (164, 12254), (167, 12263), (177, 12305),

Gene: Marcoliusprime_30 Start: 26028, Stop: 26414, Start Num: 104

Candidate Starts for Marcoliusprime_30:

(Start: 104 @26028 has 35 MA's), (Start: 105 @26031 has 16 MA's), (126, 26103), (128, 26109), (131, 26118), (132, 26124), (136, 26145), (139, 26154), (141, 26163), (144, 26172), (160, 26235), (167, 26256), (172, 26274), (173, 26277),

Gene: Mariokart_14 Start: 12852, Stop: 13238, Start Num: 89

Candidate Starts for Mariokart_14:

(Start: 89 @12852 has 7 MA's), (Start: 95 @12864 has 5 MA's), (118, 12930), (132, 12966), (147, 13026), (150, 13035), (169, 13104), (173, 13119), (198, 13209),

Gene: MarkPhew_32 Start: 26343, Stop: 26798, Start Num: 65

Candidate Starts for MarkPhew_32:

(42, 26280), (49, 26298), (Start: 65 @26343 has 123 MA's), (Start: 82 @26373 has 3 MA's), (Start: 84 @26376 has 3 MA's), (Start: 98 @26400 has 5 MA's), (117, 26466), (128, 26490), (141, 26544), (161, 26619), (179, 26685),

Gene: Marley1013_17 Start: 15350, Stop: 15784, Start Num: 70

Candidate Starts for Marley1013_17:

(38, 15245), (Start: 70 @15350 has 47 MA's), (103, 15404), (122, 15470), (177, 15671), (178, 15674),

Gene: Marshawn_33 Start: 27023, Stop: 27481, Start Num: 65

Candidate Starts for Marshawn_33:

(33, 26900), (42, 26960), (Start: 65 @27023 has 123 MA's), (Start: 82 @27053 has 3 MA's), (116, 27143), (128, 27170), (141, 27224), (158, 27287), (160, 27296), (165, 27308), (179, 27365), (183, 27377),

Gene: Mask_13 Start: 11985, Stop: 12380, Start Num: 70

Candidate Starts for Mask_13:

(Start: 70 @11985 has 47 MA's), (91, 12018), (118, 12096), (147, 12192), (160, 12243), (162, 12249), (164, 12255), (167, 12264), (177, 12306),

Gene: Mbo2_27 Start: 28891, Stop: 29355, Start Num: 105

Candidate Starts for Mbo2_27:

(Start: 105 @28891 has 16 MA's), (121, 28954), (123, 28957), (133, 28987), (139, 29014), (141, 29023), (152, 29053), (160, 29095), (166, 29113), (169, 29122), (172, 29134), (179, 29164), (182, 29173),

Gene: McMater_32 Start: 26622, Stop: 27086, Start Num: 65

Candidate Starts for McMater_32:

(33, 26496), (35, 26523), (Start: 65 @26622 has 123 MA's), (Start: 82 @26652 has 3 MA's), (86, 26658), (Start: 89 @26664 has 7 MA's), (Start: 97 @26676 has 3 MA's), (112, 26724), (115, 26736), (128, 26769), (129, 26772), (141, 26823), (158, 26886), (165, 26907), (169, 26922), (175, 26952), (179, 26964), (183, 26976),

Gene: Mdavu_28 Start: 26735, Stop: 27193, Start Num: 65

Candidate Starts for Mdavu_28:

(28, 26516), (Start: 65 @26735 has 123 MA's), (Start: 82 @26765 has 3 MA's), (86, 26771), (Start: 97 @26789 has 3 MA's), (115, 26849), (124, 26873), (128, 26882), (129, 26885), (132, 26897), (141, 26936), (144, 26945), (145, 26948), (158, 26999), (165, 27020), (169, 27035), (179, 27077), (183, 27089),

Gene: MeaningOfLife_32 Start: 27313, Stop: 27762, Start Num: 65

Candidate Starts for MeaningOfLife_32:

(24, 27076), (42, 27250), (Start: 65 @27313 has 123 MA's), (Start: 82 @27343 has 3 MA's), (86, 27349), (Start: 89 @27355 has 7 MA's), (Start: 97 @27367 has 3 MA's), (112, 27415), (116, 27433), (128, 27460), (141, 27514), (144, 27523), (158, 27577), (165, 27598), (179, 27655),

Gene: Megatron06_37 Start: 32916, Stop: 33377, Start Num: 75

Candidate Starts for Megatron06_37:

(Start: 75 @32916 has 8 MA's), (Start: 80 @32928 has 1 MA's), (93, 32952), (Start: 107 @32979 has 1 MA's), (119, 33036), (125, 33045), (127, 33051), (130, 33060), (132, 33069), (135, 33087), (148, 33132), (149, 33135), (157, 33171), (168, 33207), (173, 33225), (187, 33276), (197, 33312),

Gene: Megsy_32 Start: 27313, Stop: 27753, Start Num: 65

Candidate Starts for Megsy_32:

(24, 27076), (42, 27250), (Start: 65 @27313 has 123 MA's), (Start: 82 @27343 has 3 MA's), (86, 27349), (Start: 89 @27355 has 7 MA's), (Start: 97 @27367 has 3 MA's), (112, 27415), (116, 27433), (128, 27460), (141, 27514), (144, 27523), (158, 27577), (179, 27655), (189, 27688), (217, 27745),

Gene: Milly_30 Start: 26001, Stop: 26387, Start Num: 104

Candidate Starts for Milly_30:

(Start: 104 @26001 has 35 MA's), (Start: 105 @26004 has 16 MA's), (108, 26013), (126, 26076), (128, 26082), (131, 26091), (132, 26097), (136, 26118), (139, 26127), (141, 26136), (144, 26145), (160, 26208), (167, 26229), (172, 26247), (173, 26250),

Gene: Minos_34 Start: 39683, Stop: 40120, Start Num: 78

Candidate Starts for Minos_34:

(Start: 52 @39629 has 16 MA's), (Start: 78 @39683 has 43 MA's), (Start: 84 @39695 has 3 MA's), (Start: 97 @39716 has 3 MA's), (115, 39776), (122, 39797), (161, 39938), (180, 40007),

Gene: Miryou_31 Start: 27900, Stop: 28352, Start Num: 56

Candidate Starts for Miryou_31:

(Start: 56 @27900 has 16 MA's), (Start: 82 @27945 has 3 MA's), (Start: 89 @27957 has 7 MA's), (Start: 97 @27969 has 3 MA's), (112, 28017), (115, 28029), (116, 28035), (128, 28062), (141, 28116), (144, 28125), (148, 28140), (158, 28179), (165, 28200), (178, 28254), (179, 28257), (189, 28290),

Gene: Miskis_53 Start: 32674, Stop: 33081, Start Num: 105

Candidate Starts for Miskis_53:

(Start: 105 @32674 has 16 MA's), (120, 32737), (122, 32740), (152, 32842), (179, 32953), (192, 32995), (219, 33070),

Gene: MissDaisy_33 Start: 28226, Stop: 28624, Start Num: 83

Candidate Starts for MissDaisy_33:

(10, 27848), (12, 27857), (23, 27938), (39, 28106), (Start: 83 @28226 has 49 MA's), (Start: 97 @28247 has 3 MA's), (102, 28256), (129, 28343), (132, 28355), (144, 28403), (148, 28418), (150, 28424), (154, 28442), (160, 28466), (167, 28487), (175, 28523), (181, 28541), (182, 28544), (200, 28604),

Gene: Mithril_15 Start: 14979, Stop: 15380, Start Num: 83

Candidate Starts for Mithril_15:

(Start: 83 @14979 has 49 MA's), (126, 15081), (135, 15120), (142, 15144), (145, 15153), (156, 15198), (161, 15216), (165, 15225), (167, 15234), (173, 15255), (174, 15264), (204, 15357),

Gene: Mitti_33 Start: 28384, Stop: 28782, Start Num: 83

Candidate Starts for Mitti_33:

(39, 28264), (Start: 83 @28384 has 49 MA's), (Start: 97 @28405 has 3 MA's), (102, 28414), (129, 28501), (133, 28516), (148, 28576), (150, 28582), (154, 28600), (160, 28624), (167, 28645), (171, 28657), (173, 28666), (175, 28681), (182, 28702), (200, 28762),

Gene: MmasiCarm_17 Start: 14563, Stop: 14997, Start Num: 70

Candidate Starts for MmasiCarm_17:

(38, 14458), (Start: 70 @14563 has 47 MA's), (103, 14617), (122, 14683), (177, 14884), (178, 14887),

Gene: Mollymur_34 Start: 31778, Stop: 32188, Start Num: 100

Candidate Starts for Mollymur_34:

(Start: 100 @31778 has 5 MA's), (128, 31868), (173, 32039),

Gene: Monty_31 Start: 37418, Stop: 37885, Start Num: 78

Candidate Starts for Monty_31:

(Start: 52 @37364 has 16 MA's), (Start: 78 @37418 has 43 MA's), (Start: 84 @37430 has 3 MA's), (Start: 97 @37451 has 3 MA's), (124, 37535), (147, 37619), (160, 37670), (165, 37682), (180, 37742), (196, 37799), (208, 37832), (210, 37847),

Gene: Mortcellus_16 Start: 15204, Stop: 15638, Start Num: 70

Candidate Starts for Mortcellus_16:

(38, 15099), (Start: 70 @15204 has 47 MA's), (103, 15258), (122, 15324), (177, 15525), (178, 15528),

Gene: Morty007_17 Start: 15350, Stop: 15784, Start Num: 70

Candidate Starts for Morty007_17:

(38, 15245), (Start: 70 @15350 has 47 MA's), (103, 15404), (122, 15470), (177, 15671), (178, 15674),

Gene: MortyNRick_23 Start: 19930, Stop: 20301, Start Num: 104

Candidate Starts for MortyNRick_23:

(Start: 99 @19924 has 15 MA's), (Start: 104 @19930 has 35 MA's), (117, 19987), (118, 19990), (144, 20074), (150, 20095), (160, 20137), (161, 20140), (165, 20149), (180, 20209), (181, 20212),

Gene: MossRose_16 Start: 14360, Stop: 14761, Start Num: 71

Candidate Starts for MossRose_16:

(Start: 71 @14360 has 6 MA's), (85, 14381), (101, 14408), (128, 14486), (156, 14597), (165, 14624), (167, 14633), (169, 14639), (188, 14708), (194, 14732), (200, 14750), (201, 14753),

Gene: MrMiyagi_30 Start: 29201, Stop: 29620, Start Num: 84

Candidate Starts for MrMiyagi_30:

(55, 29147), (Start: 84 @29201 has 3 MA's), (91, 29216), (106, 29240), (112, 29273), (199, 29570), (205, 29582), (209, 29600),

Gene: MrWormie_33 Start: 38844, Stop: 39281, Start Num: 78

Candidate Starts for MrWormie_33:

(Start: 52 @38790 has 16 MA's), (Start: 78 @38844 has 43 MA's), (Start: 84 @38856 has 3 MA's), (Start: 97 @38877 has 3 MA's), (115, 38937), (122, 38958), (161, 39099), (180, 39168),

Gene: Msay19_37 Start: 39614, Stop: 40081, Start Num: 78

Candidate Starts for Msay19_37:

(Start: 52 @39560 has 16 MA's), (Start: 78 @39614 has 43 MA's), (Start: 84 @39626 has 3 MA's), (Start: 97 @39647 has 3 MA's), (115, 39707), (124, 39731), (147, 39815), (160, 39866), (165, 39878), (180, 39938), (196, 39995), (208, 40028), (210, 40043),

Gene: Mudslide_15 Start: 15224, Stop: 15625, Start Num: 83

Candidate Starts for Mudslide_15:

(Start: 83 @15224 has 49 MA's), (122, 15320), (126, 15326), (135, 15365), (142, 15389), (145, 15398), (156, 15443), (158, 15449), (161, 15461), (165, 15470), (167, 15479), (173, 15500), (174, 15509), (204, 15602),

Gene: Mufasa_31 Start: 26109, Stop: 26495, Start Num: 104

Candidate Starts for Mufasa_31:

(Start: 104 @26109 has 35 MA's), (Start: 105 @26112 has 16 MA's), (126, 26184), (128, 26190), (131, 26199), (132, 26205), (136, 26226), (139, 26235), (140, 26241), (141, 26244), (144, 26253), (160, 26316), (167, 26337), (172, 26355), (173, 26358),

Gene: Murucutumbu_32 Start: 27289, Stop: 27729, Start Num: 65

Candidate Starts for Murucutumbu_32:

(24, 27052), (Start: 65 @27289 has 123 MA's), (Start: 82 @27319 has 3 MA's), (86, 27325), (Start: 89 @27331 has 7 MA's), (Start: 97 @27343 has 3 MA's), (112, 27391), (116, 27409), (128, 27436), (137, 27475), (141, 27490), (144, 27499), (158, 27553), (179, 27631), (217, 27721),

Gene: Mynx_32 Start: 27360, Stop: 27800, Start Num: 65

Candidate Starts for Mynx_32:

(24, 27123), (42, 27297), (Start: 65 @27360 has 123 MA's), (Start: 82 @27390 has 3 MA's), (86, 27396), (Start: 89 @27402 has 7 MA's), (Start: 97 @27414 has 3 MA's), (112, 27462), (116, 27480), (128, 27507), (141, 27561), (144, 27570), (158, 27624), (165, 27645), (179, 27702), (189, 27735), (217, 27792),

Gene: Mysterious_16 Start: 15087, Stop: 15494, Start Num: 83

Candidate Starts for Mysterious_16:

(37, 14964), (Start: 71 @15072 has 6 MA's), (Start: 83 @15087 has 49 MA's), (124, 15192), (126, 15195), (137, 15240), (145, 15267), (156, 15312), (167, 15348), (177, 15390), (204, 15474),

Gene: NHagos_14 Start: 12851, Stop: 13228, Start Num: 87

Candidate Starts for NHagos_14:

(Start: 87 @12851 has 2 MA's), (111, 12896), (118, 12932), (122, 12941), (142, 13010), (145, 13019), (167, 13100), (169, 13106), (182, 13157), (188, 13175),

Gene: Nanao_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for Nanao_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: Nehemiah_15 Start: 15087, Stop: 15494, Start Num: 83

Candidate Starts for Nehemiah_15:

(37, 14964), (Start: 71 @15072 has 6 MA's), (Start: 83 @15087 has 49 MA's), (124, 15192), (126, 15195), (137, 15240), (145, 15267), (156, 15312), (167, 15348), (177, 15390), (204, 15474),

Gene: Neoevie_33 Start: 39947, Stop: 40384, Start Num: 78

Candidate Starts for Neoevie_33:

(Start: 52 @39893 has 16 MA's), (Start: 78 @39947 has 43 MA's), (Start: 84 @39959 has 3 MA's), (Start: 97 @39980 has 3 MA's), (115, 40040), (122, 40061), (161, 40202), (180, 40271),

Gene: Neos5_17 Start: 15356, Stop: 15790, Start Num: 70

Candidate Starts for Neos5_17:

(38, 15251), (Start: 70 @15356 has 47 MA's), (103, 15410), (122, 15476), (177, 15677), (178, 15680),

Gene: Nergal_28 Start: 25031, Stop: 25495, Start Num: 61

Candidate Starts for Nergal_28:

(Start: 61 @25031 has 1 MA's), (72, 25046), (112, 25139), (116, 25157), (128, 25184), (129, 25187), (141, 25238), (144, 25247), (158, 25301), (165, 25322), (171, 25343), (179, 25379), (183, 25391),

Gene: Newt_34 Start: 40174, Stop: 40611, Start Num: 78

Candidate Starts for Newt_34:

(Start: 52 @40120 has 16 MA's), (Start: 78 @40174 has 43 MA's), (Start: 84 @40186 has 3 MA's), (Start: 97 @40207 has 3 MA's), (115, 40267), (122, 40288), (161, 40429), (180, 40498),

Gene: Niagara_31 Start: 39055, Stop: 39489, Start Num: 81

Candidate Starts for Niagara_31:

(Start: 81 @39055 has 7 MA's), (Start: 97 @39076 has 3 MA's), (108, 39094), (114, 39127), (157, 39277), (161, 39292), (167, 39310), (171, 39322), (180, 39358), (182, 39364), (204, 39439),

Gene: Nibb_31 Start: 26478, Stop: 26939, Start Num: 65

Candidate Starts for Nibb_31:

(42, 26415), (Start: 65 @26478 has 123 MA's), (Start: 82 @26508 has 3 MA's), (Start: 84 @26511 has 3 MA's), (Start: 98 @26535 has 5 MA's), (116, 26598), (128, 26625), (141, 26679), (161, 26754), (175, 26808), (179, 26820), (185, 26838), (215, 26931),

Gene: Nigel_13 Start: 13828, Stop: 14229, Start Num: 83

Candidate Starts for Nigel_13:

(Start: 83 @13828 has 49 MA's), (126, 13930), (142, 13993), (156, 14047), (161, 14065), (165, 14074), (167, 14083), (172, 14101), (174, 14113),

Gene: Nikao_28 Start: 26747, Stop: 27205, Start Num: 65

Candidate Starts for Nikao_28:

(28, 26528), (Start: 65 @26747 has 123 MA's), (Start: 82 @26777 has 3 MA's), (86, 26783), (Start: 97 @26801 has 3 MA's), (115, 26861), (124, 26885), (128, 26894), (129, 26897), (132, 26909), (141, 26948), (144, 26957), (145, 26960), (158, 27011), (165, 27032), (169, 27047), (179, 27089), (183, 27101),

Gene: Niklas_32 Start: 26625, Stop: 27089, Start Num: 65

Candidate Starts for Niklas_32:

(33, 26499), (35, 26526), (Start: 65 @26625 has 123 MA's), (Start: 82 @26655 has 3 MA's), (86, 26661), (Start: 89 @26667 has 7 MA's), (Start: 97 @26679 has 3 MA's), (112, 26727), (115, 26739), (128, 26772), (129, 26775), (141, 26826), (158, 26889), (165, 26910), (169, 26925), (175, 26955), (179, 26967), (183, 26979),

Gene: Nimi13_33 Start: 39692, Stop: 40129, Start Num: 78

Candidate Starts for Nimi13_33:

(Start: 52 @39638 has 16 MA's), (Start: 78 @39692 has 43 MA's), (Start: 84 @39704 has 3 MA's), (Start: 97 @39725 has 3 MA's), (115, 39785), (122, 39806), (161, 39947), (180, 40016),

Gene: Norvs_52 Start: 32913, Stop: 33320, Start Num: 105

Candidate Starts for Norvs_52:

(Start: 105 @32913 has 16 MA's), (120, 32976), (122, 32979), (152, 33081), (179, 33192), (192, 33234), (219, 33309),

Gene: Nozo_17 Start: 15331, Stop: 15762, Start Num: 70

Candidate Starts for Nozo_17:

(38, 15226), (Start: 70 @15331 has 47 MA's), (103, 15385), (122, 15451), (177, 15652), (178, 15655),

Gene: Nutello_28 Start: 26747, Stop: 27205, Start Num: 65

Candidate Starts for Nutello_28:

(28, 26528), (Start: 65 @26747 has 123 MA's), (Start: 82 @26777 has 3 MA's), (86, 26783), (Start: 97 @26801 has 3 MA's), (115, 26861), (124, 26885), (128, 26894), (129, 26897), (132, 26909), (141, 26948), (144, 26957), (145, 26960), (158, 27011), (165, 27032), (169, 27047), (179, 27089), (183, 27101),

Gene: Nymphadora_22 Start: 21074, Stop: 21430, Start Num: 104

Candidate Starts for Nymphadora_22:

(Start: 104 @21074 has 35 MA's), (118, 21134), (122, 21143), (144, 21218), (160, 21281), (165, 21293), (180, 21353),

Gene: OBUpride_34 Start: 29590, Stop: 30000, Start Num: 76

Candidate Starts for OBUpride_34:

(Start: 76 @29590 has 22 MA's), (115, 29692), (135, 29758), (139, 29770), (142, 29782), (148, 29803), (172, 29890), (199, 29983),

Gene: Oaker_35 Start: 32640, Stop: 33101, Start Num: 75

Candidate Starts for Oaker_35:

(Start: 75 @32640 has 8 MA's), (Start: 80 @32652 has 1 MA's), (93, 32676), (Start: 107 @32703 has 1 MA's), (119, 32760), (120, 32763), (125, 32769), (127, 32775), (130, 32784), (132, 32793), (148, 32856), (149, 32859), (157, 32895), (168, 32931), (173, 32949), (187, 33000), (197, 33036),

Gene: Obutu_17 Start: 14561, Stop: 14995, Start Num: 70

Candidate Starts for Obutu_17:

(38, 14456), (Start: 70 @14561 has 47 MA's), (103, 14615), (122, 14681), (177, 14882), (178, 14885),

Gene: Ohgeesy_22 Start: 20697, Stop: 21053, Start Num: 104

Candidate Starts for Ohgeesy_22:

(Start: 104 @20697 has 35 MA's), (118, 20757), (122, 20766), (144, 20841), (160, 20904), (165, 20916), (180, 20976),

Gene: OkiRoe_31 Start: 27916, Stop: 28368, Start Num: 56

Candidate Starts for OkiRoe_31:

(Start: 56 @27916 has 16 MA's), (Start: 82 @27961 has 3 MA's), (Start: 89 @27973 has 7 MA's), (Start: 97 @27985 has 3 MA's), (112, 28033), (115, 28045), (116, 28051), (128, 28078), (141, 28132), (144, 28141), (148, 28156), (158, 28195), (165, 28216), (178, 28270), (179, 28273), (189, 28306),

Gene: OmniCritical_33 Start: 28368, Stop: 28766, Start Num: 83

Candidate Starts for OmniCritical_33:

(39, 28248), (Start: 83 @28368 has 49 MA's), (Start: 97 @28389 has 3 MA's), (102, 28398), (129, 28485), (133, 28500), (148, 28560), (150, 28566), (154, 28584), (160, 28608), (167, 28629), (171, 28641), (173, 28650), (175, 28665), (182, 28686), (200, 28746),

Gene: Omnicron_32 Start: 26804, Stop: 27253, Start Num: 56

Candidate Starts for Omnicron_32:

(Start: 56 @26804 has 16 MA's), (Start: 82 @26849 has 3 MA's), (Start: 84 @26852 has 3 MA's), (Start: 89 @26861 has 7 MA's), (Start: 97 @26873 has 3 MA's), (113, 26927), (116, 26939), (124, 26957), (128, 26966), (141, 27020), (144, 27029), (148, 27044), (158, 27083), (160, 27092), (161, 27095), (165, 27104), (178, 27158), (179, 27161), (186, 27182), (189, 27194),

Gene: OneUp_45 Start: 30331, Stop: 30756, Start Num: 97

Candidate Starts for OneUp_45:

(Start: 97 @30331 has 3 MA's), (110, 30364), (132, 30442), (133, 30445), (145, 30493), (152, 30517), (175, 30616), (179, 30628),

Gene: OrangeOswald_17 Start: 14566, Stop: 15000, Start Num: 70

Candidate Starts for OrangeOswald_17:

(38, 14461), (Start: 70 @14566 has 47 MA's), (103, 14620), (122, 14686), (177, 14887), (178, 14890),

Gene: Orchid_30 Start: 35152, Stop: 35535, Start Num: 98

Candidate Starts for Orchid_30:

(Start: 98 @35152 has 5 MA's), (129, 35248), (161, 35374), (167, 35392), (173, 35413),

Gene: Oscar_31 Start: 26446, Stop: 26901, Start Num: 65

Candidate Starts for Oscar_31:

(Start: 65 @26446 has 123 MA's), (Start: 82 @26476 has 3 MA's), (Start: 84 @26479 has 3 MA's), (Start: 98 @26503 has 5 MA's), (116, 26566), (128, 26593), (129, 26596), (141, 26647), (158, 26710), (179, 26788), (185, 26806),

Gene: Padfoot_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Padfoot_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Padpat_32 Start: 27337, Stop: 27777, Start Num: 65

Candidate Starts for Padpat_32:

(24, 27100), (42, 27274), (Start: 65 @27337 has 123 MA's), (Start: 82 @27367 has 3 MA's), (86, 27373), (Start: 89 @27379 has 7 MA's), (Start: 97 @27391 has 3 MA's), (112, 27439), (116, 27457), (128, 27484), (141, 27538), (144, 27547), (158, 27601), (165, 27622), (179, 27679), (189, 27712), (217, 27769),

Gene: Paola_31 Start: 27915, Stop: 28367, Start Num: 56

Candidate Starts for Paola_31:

(Start: 56 @27915 has 16 MA's), (Start: 82 @27960 has 3 MA's), (Start: 89 @27972 has 7 MA's), (Start: 97 @27984 has 3 MA's), (112, 28032), (115, 28044), (116, 28050), (128, 28077), (141, 28131), (144, 28140), (148, 28155), (158, 28194), (165, 28215), (178, 28269), (179, 28272), (189, 28305),

Gene: PatrickStar_30 Start: 35152, Stop: 35535, Start Num: 98

Candidate Starts for PatrickStar_30:

(Start: 98 @35152 has 5 MA's), (129, 35248), (161, 35374), (167, 35392), (173, 35413),

Gene: Patt_33 Start: 28202, Stop: 28600, Start Num: 83

Candidate Starts for Patt_33:

(10, 27824), (12, 27833), (23, 27914), (39, 28082), (Start: 83 @28202 has 49 MA's), (Start: 97 @28223 has 3 MA's), (102, 28232), (129, 28319), (132, 28331), (144, 28379), (148, 28394), (150, 28400), (154, 28418), (160, 28442), (167, 28463), (175, 28499), (181, 28517), (182, 28520), (200, 28580),

Gene: Peanam_32 Start: 26622, Stop: 27086, Start Num: 65

Candidate Starts for Peanam_32:

(33, 26496), (Start: 65 @26622 has 123 MA's), (Start: 82 @26652 has 3 MA's), (86, 26658), (Start: 89 @26664 has 7 MA's), (Start: 97 @26676 has 3 MA's), (112, 26724), (115, 26736), (128, 26769), (129,

26772), (141, 26823), (158, 26886), (165, 26907), (169, 26922), (175, 26952), (179, 26964), (183, 26976),

Gene: Peel_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Peel_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Periwinkle_26 Start: 20664, Stop: 21038, Start Num: 104

Candidate Starts for Periwinkle_26:

(Start: 99 @20658 has 15 MA's), (Start: 104 @20664 has 35 MA's), (117, 20721), (118, 20724), (122, 20733), (144, 20808), (150, 20829), (160, 20871), (161, 20874), (189, 20973),

Gene: Phabuloso_23 Start: 19948, Stop: 20325, Start Num: 99

Candidate Starts for Phabuloso_23:

(Start: 99 @19948 has 15 MA's), (Start: 104 @19954 has 35 MA's), (117, 20011), (118, 20014), (144, 20098), (150, 20119), (160, 20161), (161, 20164), (165, 20173), (180, 20233), (181, 20236),

Gene: Pharb_31 Start: 27504, Stop: 27944, Start Num: 65

Candidate Starts for Pharb_31:

(Start: 65 @27504 has 123 MA's), (Start: 78 @27525 has 43 MA's), (Start: 82 @27534 has 3 MA's), (116, 27624), (128, 27651), (129, 27654), (137, 27690), (141, 27705), (144, 27714), (158, 27768), (167, 27798), (179, 27846), (201, 27915),

Gene: Phayeta_17 Start: 14442, Stop: 14876, Start Num: 70

Candidate Starts for Phayeta_17:

(38, 14337), (Start: 70 @14442 has 47 MA's), (103, 14496), (122, 14562), (177, 14763), (178, 14766),

Gene: Phelemich_16 Start: 15091, Stop: 15498, Start Num: 83

Candidate Starts for Phelemich_16:

(37, 14968), (Start: 71 @15076 has 6 MA's), (Start: 83 @15091 has 49 MA's), (124, 15196), (126, 15199), (137, 15244), (145, 15271), (156, 15316), (167, 15352), (177, 15394), (204, 15478),

Gene: PhelpsODU_32 Start: 26653, Stop: 27117, Start Num: 65

Candidate Starts for PhelpsODU_32:

(Start: 65 @26653 has 123 MA's), (Start: 78 @26674 has 43 MA's), (Start: 82 @26683 has 3 MA's), (Start: 84 @26686 has 3 MA's), (Start: 97 @26707 has 3 MA's), (Start: 100 @26713 has 5 MA's), (115, 26767), (116, 26773), (128, 26800), (158, 26917), (179, 26995), (183, 27007), (204, 27070),

Gene: Philly_16 Start: 14432, Stop: 14866, Start Num: 70

Candidate Starts for Philly_16:

(38, 14327), (Start: 70 @14432 has 47 MA's), (103, 14486), (122, 14552), (177, 14753), (178, 14756),

Gene: Philon9_33 Start: 40236, Stop: 40667, Start Num: 81

Candidate Starts for Philon9_33:

(Start: 81 @40236 has 7 MA's), (85, 40242), (114, 40311), (116, 40320), (120, 40332), (139, 40392), (151, 40434), (157, 40461), (161, 40476), (167, 40494), (180, 40542), (184, 40554), (196, 40599),

Gene: PhinkBoden_51 Start: 33294, Stop: 33701, Start Num: 105

Candidate Starts for PhinkBoden_51:

(Start: 105 @33294 has 16 MA's), (120, 33357), (122, 33360), (152, 33462), (179, 33573), (192, 33615), (219, 33690),

Gene: Phistory_25 Start: 20985, Stop: 21359, Start Num: 104

Candidate Starts for Phistory_25:

(Start: 99 @20979 has 15 MA's), (Start: 104 @20985 has 35 MA's), (117, 21042), (118, 21045), (144, 21129), (150, 21150), (160, 21192), (161, 21195), (189, 21294),

Gene: Phlyer_17 Start: 15300, Stop: 15734, Start Num: 70

Candidate Starts for Phlyer_17:

(38, 15195), (Start: 70 @15300 has 47 MA's), (103, 15354), (122, 15420), (177, 15621), (178, 15624),

Gene: Phrank_32 Start: 26603, Stop: 27067, Start Num: 65

Candidate Starts for Phrank_32:

(Start: 65 @26603 has 123 MA's), (Start: 78 @26624 has 43 MA's), (Start: 82 @26633 has 3 MA's), (Start: 84 @26636 has 3 MA's), (Start: 100 @26663 has 5 MA's), (115, 26717), (116, 26723), (128, 26750), (141, 26804), (161, 26879), (179, 26945), (204, 27020),

Gene: Phrappuccino_197 Start: 132691, Stop: 133080, Start Num: 94

Candidate Starts for Phrappuccino_197:

(Start: 94 @132691 has 4 MA's), (122, 132772), (127, 132781), (128, 132784), (144, 132841), (153, 132874), (167, 132925), (168, 132928), (171, 132937), (174, 132955), (177, 132967), (189, 133006),

Gene: Phreeze_35 Start: 32383, Stop: 32844, Start Num: 75

Candidate Starts for Phreeze_35:

(Start: 75 @32383 has 8 MA's), (Start: 80 @32395 has 1 MA's), (93, 32419), (Start: 107 @32446 has 1 MA's), (119, 32503), (120, 32506), (125, 32512), (127, 32518), (130, 32527), (132, 32536), (135, 32554), (148, 32599), (149, 32602), (157, 32638), (168, 32674), (173, 32692), (187, 32743), (197, 32779), (213, 32824),

Gene: Piatt_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Piatt_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: PierreThree_32 Start: 38322, Stop: 38843, Start Num: 52

Candidate Starts for PierreThree_32:

(Start: 52 @38322 has 16 MA's), (Start: 78 @38376 has 43 MA's), (Start: 84 @38388 has 3 MA's), (Start: 97 @38409 has 3 MA's), (124, 38493), (127, 38499), (147, 38577), (160, 38628), (180, 38700), (196, 38757), (204, 38781), (208, 38790), (211, 38808),

Gene: Pipefish_17 Start: 15450, Stop: 15884, Start Num: 70

Candidate Starts for Pipefish_17:

(Start: 70 @15450 has 47 MA's), (103, 15504), (122, 15570), (177, 15771), (178, 15774),

Gene: Pixie_32 Start: 27737, Stop: 28183, Start Num: 65

Candidate Starts for Pixie_32:

(53, 27704), (Start: 65 @27737 has 123 MA's), (Start: 82 @27767 has 3 MA's), (116, 27857), (128, 27884), (129, 27887), (137, 27923), (141, 27938), (158, 28001), (167, 28031), (175, 28067), (179, 28079),

Gene: Pokerus_31 Start: 27294, Stop: 27734, Start Num: 65

Candidate Starts for Pokerus_31:

(24, 27057), (42, 27231), (Start: 65 @27294 has 123 MA's), (Start: 82 @27324 has 3 MA's), (86, 27330), (Start: 89 @27336 has 7 MA's), (Start: 97 @27348 has 3 MA's), (112, 27396), (116, 27414), (128, 27441), (141, 27495), (144, 27504), (158, 27558), (165, 27579), (179, 27636), (189, 27669), (217, 27726),

Gene: PokyPuppy_31 Start: 38322, Stop: 38789, Start Num: 78

Candidate Starts for PokyPuppy_31:

(Start: 78 @38322 has 43 MA's), (Start: 84 @38334 has 3 MA's), (Start: 97 @38355 has 3 MA's), (115, 38415), (124, 38439), (147, 38523), (158, 38565), (180, 38646), (196, 38703), (204, 38727), (206, 38730), (208, 38736),

Gene: Poland_37 Start: 39593, Stop: 40060, Start Num: 78

Candidate Starts for Poland_37:

(Start: 52 @39539 has 16 MA's), (Start: 78 @39593 has 43 MA's), (Start: 84 @39605 has 3 MA's), (Start: 97 @39626 has 3 MA's), (115, 39686), (124, 39710), (147, 39794), (160, 39845), (165, 39857), (180, 39917), (196, 39974), (208, 40007), (210, 40022),

Gene: Polly_21 Start: 20514, Stop: 20870, Start Num: 104

Candidate Starts for Polly_21:

(43, 20373), (45, 20379), (62, 20448), (Start: 104 @20514 has 35 MA's), (118, 20574), (122, 20583), (148, 20673), (160, 20721), (161, 20724), (165, 20733), (180, 20793),

Gene: Poster_14 Start: 13912, Stop: 14313, Start Num: 83

Candidate Starts for Poster_14:

(Start: 83 @13912 has 49 MA's), (126, 14014), (142, 14077), (145, 14086), (147, 14095), (156, 14131), (161, 14149), (165, 14158), (167, 14167), (173, 14188), (174, 14197), (204, 14290),

Gene: Predator_37 Start: 31599, Stop: 32036, Start Num: 75

Candidate Starts for Predator_37:

(Start: 75 @31599 has 8 MA's), (Start: 80 @31611 has 1 MA's), (93, 31635), (119, 31719), (120, 31722), (125, 31728), (144, 31800), (147, 31812), (148, 31815), (168, 31890), (173, 31908), (175, 31923), (187, 31959), (197, 31995),

Gene: Prince_15 Start: 15136, Stop: 15537, Start Num: 83

Candidate Starts for Prince_15:

(Start: 83 @15136 has 49 MA's), (122, 15232), (126, 15238), (135, 15277), (142, 15301), (145, 15310), (156, 15355), (158, 15361), (161, 15373), (165, 15382), (167, 15391), (173, 15412), (174, 15421), (204, 15514),

Gene: Prithvi_32 Start: 27310, Stop: 27750, Start Num: 65

Candidate Starts for Prithvi_32:

(24, 27073), (42, 27247), (Start: 65 @27310 has 123 MA's), (Start: 82 @27340 has 3 MA's), (86, 27346), (Start: 89 @27352 has 7 MA's), (Start: 97 @27364 has 3 MA's), (112, 27412), (116, 27430), (128, 27457), (141, 27511), (144, 27520), (158, 27574), (179, 27652), (189, 27685), (217, 27742),

Gene: Psycho_32 Start: 27959, Stop: 28366, Start Num: 82

Candidate Starts for Psycho_32:

(Start: 56 @27914 has 16 MA's), (Start: 58 @27917 has 3 MA's), (Start: 82 @27959 has 3 MA's), (Start: 89 @27971 has 7 MA's), (Start: 97 @27983 has 3 MA's), (112, 28031), (115, 28043), (116, 28049), (124, 28067), (128, 28076), (144, 28139), (148, 28154), (158, 28193), (160, 28202), (165, 28214), (178, 28268), (179, 28271), (186, 28292), (189, 28304),

Gene: Puissant_34 Start: 32872, Stop: 33333, Start Num: 75

Candidate Starts for Puissant_34:

(Start: 75 @32872 has 8 MA's), (79, 32881), (93, 32908), (119, 32992), (120, 32995), (125, 33001), (127, 33007), (130, 33016), (132, 33025), (148, 33088), (149, 33091), (157, 33127), (173, 33181), (187, 33232), (197, 33268),

Gene: Pupper_173 Start: 126534, Stop: 126953, Start Num: 77

Candidate Starts for Pupper_173:

(Start: 77 @126534 has 4 MA's), (120, 126648), (126, 126657), (160, 126789), (168, 126813), (181, 126864), (186, 126876), (189, 126888),

Gene: QueenPie_15 Start: 15510, Stop: 15911, Start Num: 83

Candidate Starts for QueenPie_15:

(Start: 83 @15510 has 49 MA's), (126, 15612), (142, 15675), (145, 15684), (147, 15693), (156, 15729), (161, 15747), (165, 15756), (167, 15765), (172, 15783), (173, 15786), (174, 15795), (182, 15822), (204, 15888),

Gene: QuincyRose_31 Start: 27357, Stop: 27806, Start Num: 65

Candidate Starts for QuincyRose_31:

(24, 27120), (42, 27294), (Start: 65 @27357 has 123 MA's), (Start: 82 @27387 has 3 MA's), (86, 27393), (Start: 89 @27399 has 7 MA's), (Start: 97 @27411 has 3 MA's), (112, 27459), (116, 27477), (128, 27504), (141, 27558), (144, 27567), (158, 27621), (165, 27642), (179, 27699),

Gene: RagingRooster_17 Start: 14567, Stop: 15001, Start Num: 70

Candidate Starts for RagingRooster_17:

(38, 14462), (Start: 70 @14567 has 47 MA's), (103, 14621), (122, 14687), (177, 14888), (178, 14891),

Gene: Ramen_32 Start: 27343, Stop: 27783, Start Num: 65

Candidate Starts for Ramen_32:

(22, 27094), (42, 27280), (Start: 65 @27343 has 123 MA's), (Start: 82 @27373 has 3 MA's), (86, 27379), (Start: 89 @27385 has 7 MA's), (Start: 97 @27397 has 3 MA's), (112, 27445), (116, 27463), (128, 27490), (141, 27544), (144, 27553), (157, 27604), (158, 27607), (179, 27685), (189, 27718), (217, 27775),

Gene: Rando14_32 Start: 26763, Stop: 27212, Start Num: 56

Candidate Starts for Rando14_32:

(Start: 56 @26763 has 16 MA's), (Start: 82 @26808 has 3 MA's), (Start: 84 @26811 has 3 MA's), (Start: 89 @26820 has 7 MA's), (Start: 97 @26832 has 3 MA's), (113, 26886), (116, 26898), (124, 26916), (128, 26925), (141, 26979), (144, 26988), (148, 27003), (158, 27042), (160, 27051), (161, 27054), (165, 27063), (178, 27117), (179, 27120), (186, 27141), (189, 27153),

Gene: Rapunzel97_32 Start: 27344, Stop: 27784, Start Num: 65

Candidate Starts for Rapunzel97_32:

(24, 27107), (42, 27281), (Start: 65 @27344 has 123 MA's), (Start: 82 @27374 has 3 MA's), (86, 27380), (Start: 89 @27386 has 7 MA's), (Start: 97 @27398 has 3 MA's), (112, 27446), (116, 27464), (128, 27491), (141, 27545), (157, 27605), (158, 27608), (165, 27629), (179, 27686), (189, 27719), (217, 27776),

Gene: RawrgerThat_15 Start: 14973, Stop: 15374, Start Num: 83

Candidate Starts for RawrgerThat_15:

(Start: 83 @14973 has 49 MA's), (126, 15075), (142, 15138), (145, 15147), (156, 15192), (158, 15198), (161, 15210), (167, 15228), (173, 15249), (174, 15258), (204, 15351),

Gene: RemRem_33 Start: 37408, Stop: 37875, Start Num: 78

Candidate Starts for RemRem_33:

(Start: 52 @37354 has 16 MA's), (Start: 78 @37408 has 43 MA's), (Start: 84 @37420 has 3 MA's), (Start: 97 @37441 has 3 MA's), (124, 37525), (147, 37609), (160, 37660), (165, 37672), (180, 37732), (196, 37789), (208, 37822), (210, 37837),

Gene: Reprobate_16 Start: 15088, Stop: 15495, Start Num: 83

Candidate Starts for Reprobate_16:

(37, 14965), (Start: 71 @15073 has 6 MA's), (Start: 83 @15088 has 49 MA's), (124, 15193), (126, 15196), (137, 15241), (145, 15268), (156, 15313), (167, 15349), (177, 15391), (204, 15475),

Gene: Reptar3000_33 Start: 28193, Stop: 28591, Start Num: 83

Candidate Starts for Reptar3000_33:

(Start: 83 @28193 has 49 MA's), (Start: 97 @28214 has 3 MA's), (102, 28223), (129, 28310), (132, 28322), (144, 28370), (148, 28385), (150, 28391), (154, 28409), (160, 28433), (167, 28454), (175, 28490), (181, 28508), (182, 28511), (200, 28571),

Gene: Reynauld_35 Start: 36999, Stop: 37397, Start Num: 95

Candidate Starts for Reynauld_35:

(Start: 95 @36999 has 5 MA's), (Start: 100 @37005 has 5 MA's), (127, 37083), (141, 37140), (158, 37203), (163, 37221), (185, 37299), (188, 37308), (212, 37389),

Gene: Rich_16 Start: 14987, Stop: 15394, Start Num: 83

Candidate Starts for Rich_16:

(29, 14729), (Start: 83 @14987 has 49 MA's), (124, 15092), (126, 15095), (145, 15167), (146, 15173), (156, 15212), (167, 15248), (177, 15290), (204, 15374),

Gene: Richo_32 Start: 26622, Stop: 27086, Start Num: 65

Candidate Starts for Richo_32:

(33, 26496), (35, 26523), (Start: 65 @26622 has 123 MA's), (Start: 82 @26652 has 3 MA's), (86, 26658), (Start: 89 @26664 has 7 MA's), (Start: 97 @26676 has 3 MA's), (112, 26724), (115, 26736), (128, 26769), (129, 26772), (141, 26823), (158, 26886), (165, 26907), (169, 26922), (175, 26952), (179, 26964), (183, 26976),

Gene: Rita1961_17 Start: 14562, Stop: 14996, Start Num: 70

Candidate Starts for Rita1961_17:

(38, 14457), (Start: 70 @14562 has 47 MA's), (103, 14616), (122, 14682), (177, 14883), (178, 14886),

Gene: RobinSparkles_33 Start: 36069, Stop: 36452, Start Num: 98

Candidate Starts for RobinSparkles_33:

(Start: 98 @36069 has 5 MA's), (129, 36165), (161, 36291), (167, 36309), (173, 36330),

Gene: RomaT_17 Start: 15347, Stop: 15781, Start Num: 70

Candidate Starts for RomaT_17:

(38, 15242), (Start: 70 @15347 has 47 MA's), (103, 15401), (122, 15467), (177, 15668), (178, 15671),

Gene: Rosmarinus_32 Start: 27365, Stop: 27805, Start Num: 65

Candidate Starts for Rosmarinus_32:

(42, 27302), (Start: 65 @27365 has 123 MA's), (Start: 82 @27395 has 3 MA's), (86, 27401), (Start: 89 @27407 has 7 MA's), (Start: 97 @27419 has 3 MA's), (112, 27467), (116, 27485), (128, 27512), (141, 27566), (144, 27575), (158, 27629), (165, 27650), (179, 27707), (189, 27740), (217, 27797),

Gene: RoyalG_33 Start: 37836, Stop: 38348, Start Num: 52

Candidate Starts for RoyalG_33:

(Start: 52 @37836 has 16 MA's), (Start: 78 @37890 has 43 MA's), (Start: 84 @37902 has 3 MA's), (Start: 97 @37923 has 3 MA's), (117, 37992), (124, 38007), (147, 38091), (180, 38214), (196, 38271), (204, 38295),

Gene: Ruthiejr_34 Start: 28349, Stop: 28747, Start Num: 83

Candidate Starts for Ruthiejr_34:

(Start: 83 @28349 has 49 MA's), (Start: 97 @28370 has 3 MA's), (102, 28379), (129, 28466), (133, 28481), (148, 28541), (150, 28547), (154, 28565), (160, 28589), (167, 28610), (171, 28622), (173, 28631), (175, 28646), (200, 28727),

Gene: SCentae_172 Start: 126727, Stop: 127146, Start Num: 77

Candidate Starts for SCentae_172:

(Start: 77 @126727 has 4 MA's), (120, 126841), (126, 126850), (160, 126982), (168, 127006), (181, 127057), (186, 127069), (189, 127081),

Gene: Sam12_32 Start: 37354, Stop: 37875, Start Num: 52

Candidate Starts for Sam12_32:

(Start: 52 @37354 has 16 MA's), (Start: 78 @37408 has 43 MA's), (Start: 84 @37420 has 3 MA's), (Start: 97 @37441 has 3 MA's), (124, 37525), (147, 37609), (160, 37660), (165, 37672), (180, 37732), (196, 37789), (208, 37822), (210, 37837),

Gene: SamScheppers_33 Start: 28862, Stop: 29260, Start Num: 83

Candidate Starts for SamScheppers_33:

(39, 28742), (Start: 83 @28862 has 49 MA's), (Start: 97 @28883 has 3 MA's), (102, 28892), (129, 28979), (133, 28994), (148, 29054), (150, 29060), (154, 29078), (160, 29102), (167, 29123), (171, 29135), (173, 29144), (175, 29159), (200, 29240),

Gene: SamuelLPlaqson_32 Start: 27266, Stop: 27706, Start Num: 65

Candidate Starts for SamuelLPlaqson_32:

(Start: 56 @27251 has 16 MA's), (Start: 65 @27266 has 123 MA's), (Start: 82 @27296 has 3 MA's), (86, 27302), (Start: 89 @27308 has 7 MA's), (Start: 97 @27320 has 3 MA's), (112, 27368), (116, 27386), (128, 27413), (141, 27467), (144, 27476), (158, 27530), (179, 27608), (189, 27641), (217, 27698), (218, 27701),

Gene: Sbash_27 Start: 25423, Stop: 25824, Start Num: 94

Candidate Starts for Sbash_27:

(Start: 94 @25423 has 4 MA's), (120, 25498), (122, 25501), (142, 25564), (160, 25633), (171, 25666), (173, 25675), (189, 25735), (193, 25750), (205, 25780), (216, 25816),

Gene: Scarlett_31 Start: 26447, Stop: 26902, Start Num: 65

Candidate Starts for Scarlett_31:

(Start: 65 @26447 has 123 MA's), (Start: 82 @26477 has 3 MA's), (Start: 84 @26480 has 3 MA's), (Start: 98 @26504 has 5 MA's), (116, 26567), (128, 26594), (129, 26597), (141, 26648), (158, 26711), (179, 26789), (183, 26801), (185, 26807),

Gene: Sejanus_13 Start: 12918, Stop: 13313, Start Num: 70

Candidate Starts for Sejanus_13:

(Start: 70 @12918 has 47 MA's), (91, 12951), (118, 13029), (147, 13125), (160, 13176), (162, 13182), (164, 13188), (167, 13197), (177, 13239),

Gene: Serendipitous_16 Start: 15034, Stop: 15441, Start Num: 83

Candidate Starts for Serendipitous_16:

(Start: 71 @15019 has 6 MA's), (Start: 83 @15034 has 49 MA's), (96, 15058), (109, 15085), (124, 15139), (126, 15142), (145, 15214), (146, 15220), (156, 15259), (167, 15295), (177, 15337), (204, 15421),

Gene: Settecandela_222 Start: 141538, Stop: 141927, Start Num: 94

Candidate Starts for Settecandela_222:

(Start: 94 @141538 has 4 MA's), (122, 141619), (127, 141628), (128, 141631), (144, 141688), (153, 141721), (167, 141772), (168, 141775), (171, 141784), (174, 141802), (177, 141814), (189, 141853),

Gene: SgtBeansprout_28 Start: 26747, Stop: 27205, Start Num: 65

Candidate Starts for SgtBeansprout_28:

(28, 26528), (Start: 65 @26747 has 123 MA's), (Start: 82 @26777 has 3 MA's), (86, 26783), (Start: 97 @26801 has 3 MA's), (115, 26861), (124, 26885), (128, 26894), (129, 26897), (132, 26909), (141, 26948), (144, 26957), (145, 26960), (158, 27011), (165, 27032), (169, 27047), (179, 27089), (183, 27101),

Gene: Shadow1_31 Start: 26476, Stop: 26940, Start Num: 65

Candidate Starts for Shadow1_31:

(Start: 65 @26476 has 123 MA's), (Start: 78 @26497 has 43 MA's), (Start: 82 @26506 has 3 MA's), (Start: 84 @26509 has 3 MA's), (Start: 100 @26536 has 5 MA's), (115, 26590), (116, 26596), (128, 26623), (141, 26677), (158, 26740), (165, 26761), (179, 26818), (183, 26830),

Gene: Shaobing_32 Start: 26622, Stop: 27086, Start Num: 65

Candidate Starts for Shaobing_32:

(33, 26496), (35, 26523), (Start: 65 @26622 has 123 MA's), (Start: 82 @26652 has 3 MA's), (86, 26658), (Start: 89 @26664 has 7 MA's), (Start: 97 @26676 has 3 MA's), (112, 26724), (115, 26736), (128, 26769), (129, 26772), (141, 26823), (158, 26886), (165, 26907), (169, 26922), (175, 26952), (179, 26964), (183, 26976),

Gene: Shatter_14 Start: 12949, Stop: 13329, Start Num: 95

Candidate Starts for Shatter_14:

(Start: 95 @12949 has 5 MA's), (122, 13024), (132, 13051), (150, 13120), (169, 13189), (173, 13204), (190, 13267), (194, 13282),

Gene: ShedlockHolmes_33 Start: 28259, Stop: 28705, Start Num: 65

Candidate Starts for ShedlockHolmes_33:

(53, 28226), (Start: 65 @28259 has 123 MA's), (Start: 82 @28289 has 3 MA's), (116, 28379), (128, 28406), (129, 28409), (137, 28445), (141, 28460), (158, 28523), (167, 28553), (179, 28601),

Gene: Shelley_33 Start: 39168, Stop: 39605, Start Num: 78

Candidate Starts for Shelley_33:

(Start: 52 @39114 has 16 MA's), (Start: 78 @39168 has 43 MA's), (Start: 84 @39180 has 3 MA's), (Start: 97 @39201 has 3 MA's), (115, 39261), (122, 39282), (161, 39423), (180, 39492),

Gene: Shenyu_16 Start: 14829, Stop: 15227, Start Num: 83

Candidate Starts for Shenyu_16:

(37, 14706), (Start: 71 @14814 has 6 MA's), (Start: 83 @14829 has 49 MA's), (124, 14925), (126, 14928), (145, 15000), (156, 15045), (167, 15081), (177, 15123), (204, 15207),

Gene: ShiaSurprise_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for ShiaSurprise_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141,

27578), (144, 27587), (157, 27638), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Sidious_22 Start: 20529, Stop: 20909, Start Num: 104

Candidate Starts for Sidious_22:

(Start: 104 @20529 has 35 MA's), (122, 20598), (144, 20673), (180, 20808), (182, 20814), (204, 20883),

Gene: SirPhilip_31 Start: 26116, Stop: 26580, Start Num: 64

Candidate Starts for SirPhilip_31:

(Start: 64 @26116 has 9 MA's), (Start: 82 @26146 has 3 MA's), (Start: 84 @26149 has 3 MA's), (Start: 98 @26173 has 5 MA's), (115, 26230), (116, 26236), (128, 26263), (129, 26266), (141, 26317), (158, 26380), (179, 26458), (183, 26470), (185, 26476), (215, 26569),

Gene: Sisko_14 Start: 13277, Stop: 13672, Start Num: 89

Candidate Starts for Sisko_14:

(Start: 89 @13277 has 7 MA's), (Start: 95 @13289 has 5 MA's), (111, 13319), (132, 13391), (150, 13460), (167, 13523), (169, 13529), (190, 13607), (194, 13622), (196, 13628),

Gene: Skog_5 Start: 3101, Stop: 3520, Start Num: 77

Candidate Starts for Skog_5:

(Start: 77 @3101 has 4 MA's), (120, 3215), (126, 3224), (160, 3356), (168, 3380), (181, 3431), (186, 3443), (189, 3455),

Gene: Slarp_33 Start: 28471, Stop: 28869, Start Num: 83

Candidate Starts for Slarp_33:

(Start: 83 @28471 has 49 MA's), (Start: 97 @28492 has 3 MA's), (102, 28501), (129, 28588), (133, 28603), (148, 28663), (150, 28669), (154, 28687), (160, 28711), (167, 28732), (171, 28744), (173, 28753), (175, 28768), (182, 28789), (200, 28849),

Gene: Slimphazie_32 Start: 27344, Stop: 27784, Start Num: 65

Candidate Starts for Slimphazie_32:

(24, 27107), (42, 27281), (Start: 65 @27344 has 123 MA's), (Start: 82 @27374 has 3 MA's), (86, 27380), (Start: 89 @27386 has 7 MA's), (Start: 97 @27398 has 3 MA's), (112, 27446), (116, 27464), (128, 27491), (141, 27545), (157, 27605), (158, 27608), (165, 27629), (179, 27686), (189, 27719), (217, 27776),

Gene: Smoothie_53 Start: 33369, Stop: 33776, Start Num: 105

Candidate Starts for Smoothie_53:

(Start: 105 @33369 has 16 MA's), (120, 33432), (122, 33435), (152, 33537), (179, 33648), (192, 33690), (219, 33765),

Gene: SoSeph_31 Start: 28061, Stop: 28513, Start Num: 56

Candidate Starts for SoSeph_31:

(Start: 56 @28061 has 16 MA's), (Start: 82 @28106 has 3 MA's), (Start: 89 @28118 has 7 MA's), (Start: 97 @28130 has 3 MA's), (112, 28178), (115, 28190), (116, 28196), (128, 28223), (129, 28226), (141, 28277), (144, 28286), (148, 28301), (158, 28340), (165, 28361), (178, 28415), (179, 28418), (189, 28451),

Gene: Sombrero_32 Start: 37356, Stop: 37877, Start Num: 52

Candidate Starts for Sombrero_32:

(Start: 52 @37356 has 16 MA's), (Start: 78 @37410 has 43 MA's), (Start: 84 @37422 has 3 MA's), (Start: 97 @37443 has 3 MA's), (117, 37512), (124, 37527), (147, 37611), (160, 37662), (165, 37674),

(180, 37734), (196, 37791), (208, 37824), (210, 37839),

Gene: Sour_17 Start: 14711, Stop: 15097, Start Num: 87

Candidate Starts for Sour_17:

(Start: 87 @14711 has 2 MA's), (Start: 89 @14714 has 7 MA's), (118, 14792), (132, 14828), (159, 14936), (167, 14960), (169, 14966), (174, 14990), (182, 15017), (194, 15059), (202, 15080),

Gene: Sparky_28 Start: 26721, Stop: 27113, Start Num: 97

Candidate Starts for Sparky_28:

(Start: 97 @26721 has 3 MA's), (120, 26787), (122, 26790), (142, 26853), (160, 26922), (167, 26943), (171, 26955), (173, 26964), (189, 27024), (193, 27039), (205, 27069), (216, 27105),

Gene: SpeedDemon_350 Start: 32425, Stop: 32838, Start Num: 100

Candidate Starts for SpeedDemon_350:

(Start: 100 @32425 has 5 MA's), (128, 32515), (133, 32533), (154, 32617), (183, 32728),

Gene: Spock_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Spock_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Spooky_24 Start: 20292, Stop: 20663, Start Num: 104

Candidate Starts for Spooky_24:

(4, 19797), (15, 19908), (18, 19926), (Start: 99 @20286 has 15 MA's), (Start: 104 @20292 has 35 MA's), (117, 20349), (122, 20361), (144, 20436), (160, 20499), (161, 20502), (169, 20526), (180, 20571), (181, 20574),

Gene: Squibbles_31 Start: 38271, Stop: 38738, Start Num: 78

Candidate Starts for Squibbles_31:

(Start: 52 @38217 has 16 MA's), (Start: 78 @38271 has 43 MA's), (Start: 84 @38283 has 3 MA's), (Start: 97 @38304 has 3 MA's), (124, 38388), (147, 38472), (160, 38523), (165, 38535), (180, 38595), (196, 38652), (208, 38685), (210, 38700),

Gene: Squiddly_26 Start: 21704, Stop: 22075, Start Num: 104

Candidate Starts for Squiddly_26:

(4, 21209), (15, 21320), (18, 21338), (Start: 99 @21698 has 15 MA's), (Start: 104 @21704 has 35 MA's), (117, 21761), (122, 21773), (144, 21848), (160, 21911), (161, 21914), (169, 21938), (180, 21983), (181, 21986),

Gene: SteveFrench_32 Start: 38130, Stop: 38588, Start Num: 78

Candidate Starts for SteveFrench_32:

(Start: 52 @38076 has 16 MA's), (Start: 78 @38130 has 43 MA's), (Start: 84 @38142 has 3 MA's), (Start: 97 @38163 has 3 MA's), (117, 38232), (124, 38247), (147, 38331), (180, 38454), (196, 38511), (204, 38535),

Gene: Sticker17_33 Start: 39683, Stop: 40120, Start Num: 78

Candidate Starts for Sticker17_33:

(Start: 52 @39629 has 16 MA's), (Start: 78 @39683 has 43 MA's), (Start: 84 @39695 has 3 MA's), (Start: 97 @39716 has 3 MA's), (115, 39776), (122, 39797), (161, 39938), (180, 40007),

Gene: Stinger_13 Start: 13475, Stop: 13876, Start Num: 83

Candidate Starts for Stinger_13:

(Start: 83 @13475 has 49 MA's), (126, 13577), (135, 13616), (142, 13640), (156, 13694), (161, 13712), (165, 13721), (167, 13730), (172, 13748), (174, 13760),

Gene: Stinson_33 Start: 27579, Stop: 28019, Start Num: 65

Candidate Starts for Stinson_33:

(24, 27342), (Start: 65 @27579 has 123 MA's), (Start: 82 @27609 has 3 MA's), (86, 27615), (Start: 89 @27621 has 7 MA's), (Start: 97 @27633 has 3 MA's), (112, 27681), (116, 27699), (128, 27726), (137, 27765), (141, 27780), (144, 27789), (158, 27843), (179, 27921), (189, 27954), (217, 28011),

Gene: Strobilo_30 Start: 26001, Stop: 26387, Start Num: 104

Candidate Starts for Strobilo_30:

(Start: 104 @26001 has 35 MA's), (Start: 105 @26004 has 16 MA's), (108, 26013), (126, 26076), (128, 26082), (131, 26091), (132, 26097), (136, 26118), (139, 26127), (141, 26136), (144, 26145), (160, 26208), (167, 26229), (172, 26247), (173, 26250),

Gene: Sulley_32 Start: 27310, Stop: 27750, Start Num: 65

Candidate Starts for Sulley_32:

(42, 27247), (Start: 65 @27310 has 123 MA's), (Start: 82 @27340 has 3 MA's), (86, 27346), (Start: 89 @27352 has 7 MA's), (Start: 97 @27364 has 3 MA's), (112, 27412), (116, 27430), (128, 27457), (141, 27511), (144, 27520), (158, 27574), (165, 27595), (179, 27652), (189, 27685), (217, 27742),

Gene: Sunflower1121_31 Start: 26488, Stop: 26952, Start Num: 65

Candidate Starts for Sunflower1121_31:

(Start: 65 @26488 has 123 MA's), (Start: 78 @26509 has 43 MA's), (Start: 82 @26518 has 3 MA's), (Start: 84 @26521 has 3 MA's), (Start: 100 @26548 has 5 MA's), (115, 26602), (116, 26608), (128, 26635), (141, 26689), (158, 26752), (165, 26773), (179, 26830), (183, 26842), (204, 26905),

Gene: SynergyX_17 Start: 14567, Stop: 15001, Start Num: 70

Candidate Starts for SynergyX_17:

(38, 14462), (Start: 70 @14567 has 47 MA's), (103, 14621), (122, 14687), (177, 14888), (178, 14891),

Gene: Syra333_32 Start: 26498, Stop: 26962, Start Num: 65

Candidate Starts for Syra333_32:

(Start: 65 @26498 has 123 MA's), (Start: 78 @26519 has 43 MA's), (Start: 82 @26528 has 3 MA's), (Start: 84 @26531 has 3 MA's), (Start: 100 @26558 has 5 MA's), (115, 26612), (116, 26618), (128, 26645), (141, 26699), (158, 26762), (165, 26783), (179, 26840), (183, 26852),

Gene: TBond007_32 Start: 27736, Stop: 28182, Start Num: 65

Candidate Starts for TBond007_32:

(53, 27703), (Start: 65 @27736 has 123 MA's), (Start: 82 @27766 has 3 MA's), (116, 27856), (128, 27883), (129, 27886), (137, 27922), (141, 27937), (158, 28000), (167, 28030), (175, 28066), (179, 28078),

Gene: TClif_33 Start: 27061, Stop: 27525, Start Num: 63

Candidate Starts for TClif_33:

(Start: 63 @27061 has 1 MA's), (Start: 82 @27091 has 3 MA's), (Start: 84 @27094 has 3 MA's), (Start: 89 @27103 has 7 MA's), (Start: 97 @27115 has 3 MA's), (Start: 100 @27121 has 5 MA's), (116, 27181), (128, 27208), (129, 27211), (141, 27262), (158, 27325), (179, 27403),

Gene: TM4_31 Start: 26207, Stop: 26593, Start Num: 104

Candidate Starts for TM4_31:

(Start: 104 @26207 has 35 MA's), (Start: 105 @26210 has 16 MA's), (108, 26219), (112, 26243), (126, 26282), (128, 26288), (131, 26297), (132, 26303), (136, 26324), (139, 26333), (141, 26342), (144,

26351), (160, 26414), (167, 26435), (172, 26453), (173, 26456),

Gene: TPA4_33 Start: 29799, Stop: 30185, Start Num: 106

Candidate Starts for TPA4_33:

(30, 29538), (54, 29694), (Start: 104 @29793 has 35 MA's), (106, 29799), (147, 29949), (151, 29961), (154, 29976), (160, 30006), (179, 30075), (182, 30084), (194, 30123),

Gene: Tachez_32 Start: 27306, Stop: 27746, Start Num: 65

Candidate Starts for Tachez_32:

(24, 27069), (42, 27243), (Start: 65 @27306 has 123 MA's), (Start: 82 @27336 has 3 MA's), (86, 27342), (Start: 89 @27348 has 7 MA's), (Start: 97 @27360 has 3 MA's), (112, 27408), (116, 27426), (128, 27453), (141, 27507), (157, 27567), (158, 27570), (165, 27591), (179, 27648), (189, 27681), (217, 27738),

Gene: TaiwanKao_33 Start: 27310, Stop: 27750, Start Num: 65

Candidate Starts for TaiwanKao_33:

(24, 27073), (42, 27247), (Start: 65 @27310 has 123 MA's), (Start: 82 @27340 has 3 MA's), (86, 27346), (Start: 89 @27352 has 7 MA's), (Start: 97 @27364 has 3 MA's), (112, 27412), (116, 27430), (128, 27457), (141, 27511), (144, 27520), (158, 27574), (179, 27652), (189, 27685), (217, 27742),

Gene: Taquito_33 Start: 28909, Stop: 29307, Start Num: 83

Candidate Starts for Taquito_33:

(39, 28789), (Start: 83 @28909 has 49 MA's), (Start: 97 @28930 has 3 MA's), (102, 28939), (129, 29026), (133, 29041), (148, 29101), (150, 29107), (154, 29125), (160, 29149), (167, 29170), (171, 29182), (173, 29191), (175, 29206), (182, 29227), (200, 29287),

Gene: Teal_33 Start: 40151, Stop: 40588, Start Num: 78

Candidate Starts for Teal_33:

(Start: 52 @40097 has 16 MA's), (Start: 78 @40151 has 43 MA's), (Start: 84 @40163 has 3 MA's), (Start: 97 @40184 has 3 MA's), (115, 40244), (122, 40265), (161, 40406), (180, 40475),

Gene: Teatealatte_31 Start: 39000, Stop: 39434, Start Num: 81

Candidate Starts for Teatealatte_31:

(Start: 81 @39000 has 7 MA's), (Start: 97 @39021 has 3 MA's), (108, 39039), (114, 39072), (157, 39222), (161, 39237), (167, 39255), (171, 39267), (180, 39303), (182, 39309), (204, 39384),

Gene: Teech_31 Start: 38801, Stop: 39235, Start Num: 81

Candidate Starts for Teech_31:

(Start: 81 @38801 has 7 MA's), (Start: 97 @38822 has 3 MA's), (108, 38840), (114, 38873), (157, 39023), (161, 39038), (167, 39056), (171, 39068), (180, 39104), (182, 39110), (204, 39185),

Gene: ThankyouJordi_21 Start: 21049, Stop: 21405, Start Num: 104

Candidate Starts for ThankyouJordi_21:

(Start: 104 @21049 has 35 MA's), (118, 21109), (180, 21328),

Gene: Thumb_35 Start: 32380, Stop: 32841, Start Num: 75

Candidate Starts for Thumb_35:

(Start: 75 @32380 has 8 MA's), (Start: 80 @32392 has 1 MA's), (93, 32416), (Start: 107 @32443 has 1 MA's), (119, 32500), (120, 32503), (125, 32509), (127, 32515), (130, 32524), (132, 32533), (135, 32551), (148, 32596), (149, 32599), (157, 32635), (168, 32671), (173, 32689), (187, 32740), (197, 32776),

Gene: Thyatira_31 Start: 27915, Stop: 28367, Start Num: 56

Candidate Starts for Thyatira_31:

(Start: 56 @27915 has 16 MA's), (Start: 82 @27960 has 3 MA's), (Start: 89 @27972 has 7 MA's), (Start: 97 @27984 has 3 MA's), (112, 28032), (115, 28044), (116, 28050), (128, 28077), (141, 28131), (144, 28140), (148, 28155), (158, 28194), (165, 28215), (178, 28269), (179, 28272), (189, 28305),

Gene: Tierra_32 Start: 27324, Stop: 27788, Start Num: 65

Candidate Starts for Tierra_32:

(Start: 65 @27324 has 123 MA's), (Start: 78 @27345 has 43 MA's), (Start: 82 @27354 has 3 MA's), (Start: 84 @27357 has 3 MA's), (Start: 100 @27384 has 5 MA's), (115, 27438), (116, 27444), (128, 27471), (141, 27525), (161, 27600), (179, 27666), (204, 27741),

Gene: TimTam_22 Start: 21074, Stop: 21430, Start Num: 104

Candidate Starts for TimTam_22:

(Start: 104 @21074 has 35 MA's), (118, 21134), (122, 21143), (144, 21218), (160, 21281), (165, 21293), (180, 21353),

Gene: TingHuaYa_32 Start: 26466, Stop: 26918, Start Num: 65

Candidate Starts for TingHuaYa_32:

(20, 26208), (33, 26343), (42, 26403), (Start: 65 @26466 has 123 MA's), (Start: 82 @26496 has 3 MA's), (86, 26502), (Start: 89 @26508 has 7 MA's), (Start: 97 @26520 has 3 MA's), (112, 26568), (115, 26580), (128, 26613), (129, 26616), (141, 26667), (158, 26730), (160, 26739), (165, 26751), (179, 26808),

Gene: TiniBug_32 Start: 27262, Stop: 27702, Start Num: 65

Candidate Starts for TiniBug_32:

(11, 26935), (42, 27199), (Start: 65 @27262 has 123 MA's), (Start: 82 @27292 has 3 MA's), (86, 27298), (Start: 89 @27304 has 7 MA's), (Start: 97 @27316 has 3 MA's), (112, 27364), (116, 27382), (128, 27409), (141, 27463), (144, 27472), (158, 27526), (179, 27604), (189, 27637), (217, 27694),

Gene: Tiri_32 Start: 27349, Stop: 27798, Start Num: 65

Candidate Starts for Tiri_32:

(24, 27112), (42, 27286), (Start: 65 @27349 has 123 MA's), (Start: 82 @27379 has 3 MA's), (86, 27385), (Start: 89 @27391 has 7 MA's), (Start: 97 @27403 has 3 MA's), (112, 27451), (116, 27469), (128, 27496), (141, 27550), (144, 27559), (158, 27613), (165, 27634), (179, 27691), (217, 27790),

Gene: Toniann_51 Start: 32856, Stop: 33263, Start Num: 105

Candidate Starts for Toniann_51:

(Start: 105 @32856 has 16 MA's), (120, 32919), (122, 32922), (152, 33024), (179, 33135), (192, 33177), (219, 33252),

Gene: Topper_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Topper_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Torres_28 Start: 26747, Stop: 27205, Start Num: 65

Candidate Starts for Torres_28:

(28, 26528), (Start: 65 @26747 has 123 MA's), (Start: 82 @26777 has 3 MA's), (86, 26783), (Start: 97 @26801 has 3 MA's), (115, 26861), (124, 26885), (128, 26894), (129, 26897), (132, 26909), (141, 26948), (144, 26957), (145, 26960), (158, 27011), (165, 27032), (169, 27047), (179, 27089), (183, 27101),

Gene: Tredge_31 Start: 39000, Stop: 39434, Start Num: 81

Candidate Starts for Tredge_31:

(Start: 81 @39000 has 7 MA's), (Start: 97 @39021 has 3 MA's), (108, 39039), (114, 39072), (157, 39222), (161, 39237), (167, 39255), (171, 39267), (180, 39303), (182, 39309), (204, 39384),

Gene: TreyKay_32 Start: 27310, Stop: 27750, Start Num: 65

Candidate Starts for TreyKay_32:

(24, 27073), (42, 27247), (Start: 65 @27310 has 123 MA's), (Start: 82 @27340 has 3 MA's), (86, 27346), (Start: 89 @27352 has 7 MA's), (Start: 97 @27364 has 3 MA's), (112, 27412), (116, 27430), (128, 27457), (141, 27511), (144, 27520), (158, 27574), (179, 27652), (189, 27685), (217, 27742),

Gene: TribbleTrouble_31 Start: 27787, Stop: 28239, Start Num: 65

Candidate Starts for TribbleTrouble_31:

(53, 27754), (Start: 65 @27787 has 123 MA's), (Start: 82 @27817 has 3 MA's), (116, 27907), (128, 27934), (129, 27937), (137, 27973), (141, 27988), (158, 28051), (165, 28072), (179, 28129), (189, 28162),

Gene: TruffulaTree_32 Start: 27340, Stop: 27780, Start Num: 65

Candidate Starts for TruffulaTree_32:

(42, 27277), (Start: 65 @27340 has 123 MA's), (Start: 82 @27370 has 3 MA's), (86, 27376), (Start: 89 @27382 has 7 MA's), (Start: 97 @27394 has 3 MA's), (112, 27442), (116, 27460), (128, 27487), (141, 27541), (157, 27601), (158, 27604), (165, 27625), (179, 27682), (189, 27715), (217, 27772),

Gene: Twitch_32 Start: 27377, Stop: 27817, Start Num: 65

Candidate Starts for Twitch_32:

(42, 27314), (Start: 65 @27377 has 123 MA's), (Start: 82 @27407 has 3 MA's), (86, 27413), (Start: 89 @27419 has 7 MA's), (Start: 97 @27431 has 3 MA's), (112, 27479), (116, 27497), (128, 27524), (141, 27578), (144, 27587), (158, 27641), (165, 27662), (179, 27719), (189, 27752), (217, 27809),

Gene: Tydolla_17 Start: 15304, Stop: 15738, Start Num: 70

Candidate Starts for Tydolla_17:

(38, 15199), (Start: 70 @15304 has 47 MA's), (103, 15358), (122, 15424), (177, 15625), (178, 15628),

Gene: Typha_33 Start: 30335, Stop: 30691, Start Num: 105

Candidate Starts for Typha_33:

(41, 30185), (Start: 105 @30335 has 16 MA's), (112, 30368), (129, 30416), (132, 30428), (137, 30452), (141, 30467), (147, 30488), (155, 30518), (160, 30539), (161, 30542), (179, 30608), (182, 30617), (186, 30629),

Gene: Ubuntu_34 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Ubuntu_34:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Unicorn_32 Start: 26653, Stop: 27117, Start Num: 65

Candidate Starts for Unicorn_32:

(Start: 65 @26653 has 123 MA's), (Start: 78 @26674 has 43 MA's), (Start: 82 @26683 has 3 MA's), (Start: 84 @26686 has 3 MA's), (Start: 97 @26707 has 3 MA's), (Start: 100 @26713 has 5 MA's), (115, 26767), (116, 26773), (128, 26800), (158, 26917), (179, 26995), (183, 27007), (204, 27070),

Gene: Urkel_32 Start: 27266, Stop: 27706, Start Num: 65

Candidate Starts for Urkel_32:

(Start: 56 @27251 has 16 MA's), (Start: 65 @27266 has 123 MA's), (Start: 82 @27296 has 3 MA's), (86, 27302), (Start: 89 @27308 has 7 MA's), (Start: 97 @27320 has 3 MA's), (112, 27368), (116, 27386), (128, 27413), (141, 27467), (144, 27476), (158, 27530), (179, 27608), (189, 27641), (217, 27698), (218, 27701),

Gene: Validus_32 Start: 26557, Stop: 27018, Start Num: 65

Candidate Starts for Validus_32:

(Start: 65 @26557 has 123 MA's), (Start: 70 @26566 has 47 MA's), (Start: 82 @26587 has 3 MA's), (Start: 84 @26590 has 3 MA's), (86, 26593), (Start: 89 @26599 has 7 MA's), (Start: 97 @26611 has 3 MA's), (112, 26659), (115, 26671), (128, 26704), (129, 26707), (141, 26758), (158, 26821), (165, 26842), (169, 26857), (175, 26887), (179, 26899), (183, 26911),

Gene: VanLee_29 Start: 25243, Stop: 25584, Start Num: 107

Candidate Starts for VanLee_29:

(Start: 107 @25243 has 1 MA's), (122, 25297), (142, 25366), (160, 25450), (181, 25525),

Gene: Veliki_32 Start: 27380, Stop: 27820, Start Num: 65

Candidate Starts for Veliki_32:

(24, 27143), (42, 27317), (Start: 65 @27380 has 123 MA's), (Start: 82 @27410 has 3 MA's), (86, 27416), (Start: 89 @27422 has 7 MA's), (Start: 97 @27434 has 3 MA's), (112, 27482), (116, 27500), (128, 27527), (141, 27581), (157, 27641), (158, 27644), (165, 27665), (179, 27722), (189, 27755), (217, 27812),

Gene: VioletZ_15 Start: 15009, Stop: 15410, Start Num: 83

Candidate Starts for VioletZ_15:

(Start: 83 @15009 has 49 MA's), (126, 15111), (142, 15174), (145, 15183), (156, 15228), (161, 15246), (167, 15264), (173, 15285), (174, 15294), (204, 15387),

Gene: Waleliano_15 Start: 14979, Stop: 15380, Start Num: 83

Candidate Starts for Waleliano_15:

(Start: 83 @14979 has 49 MA's), (126, 15081), (142, 15144), (145, 15153), (156, 15198), (161, 15216), (167, 15234), (173, 15255), (174, 15264), (204, 15357),

Gene: Waterfoul_31 Start: 27939, Stop: 28391, Start Num: 56

Candidate Starts for Waterfoul_31:

(Start: 56 @27939 has 16 MA's), (Start: 82 @27984 has 3 MA's), (Start: 89 @27996 has 7 MA's), (Start: 97 @28008 has 3 MA's), (112, 28056), (115, 28068), (116, 28074), (128, 28101), (141, 28155), (144, 28164), (148, 28179), (158, 28218), (165, 28239), (178, 28293), (179, 28296), (189, 28329),

Gene: Webster2_34 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Webster2_34:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: WelcomeAyanna_21 Start: 21049, Stop: 21405, Start Num: 104

Candidate Starts for WelcomeAyanna_21:

(Start: 104 @21049 has 35 MA's), (118, 21109), (180, 21328),

Gene: Whitney_25 Start: 21106, Stop: 21480, Start Num: 104

Candidate Starts for Whitney_25:

(4, 20611), (15, 20722), (18, 20740), (Start: 99 @21100 has 15 MA's), (Start: 104 @21106 has 35 MA's), (117, 21163), (118, 21166), (122, 21175), (144, 21250), (160, 21313), (161, 21316), (165, 21325), (180, 21385), (181, 21388),

Gene: WilliamBoone_51 Start: 32208, Stop: 32615, Start Num: 105

Candidate Starts for WilliamBoone_51:

(Start: 105 @32208 has 16 MA's), (140, 32337), (141, 32340), (147, 32361), (152, 32376), (179, 32487), (192, 32529), (219, 32604),

Gene: Wintermute_33 Start: 28458, Stop: 28856, Start Num: 83

Candidate Starts for Wintermute_33:

(Start: 83 @28458 has 49 MA's), (Start: 97 @28479 has 3 MA's), (102, 28488), (129, 28575), (133, 28590), (148, 28650), (150, 28656), (154, 28674), (160, 28698), (167, 28719), (171, 28731), (173, 28740), (175, 28755), (182, 28776), (200, 28836),

Gene: Wishmaker_33 Start: 29596, Stop: 30006, Start Num: 76

Candidate Starts for Wishmaker_33:

(Start: 76 @29596 has 22 MA's), (115, 29698), (135, 29764), (139, 29776), (142, 29788), (148, 29809), (172, 29896), (199, 29989),

Gene: Woes_33 Start: 40202, Stop: 40639, Start Num: 78

Candidate Starts for Woes_33:

(Start: 52 @40148 has 16 MA's), (Start: 78 @40202 has 43 MA's), (Start: 84 @40214 has 3 MA's), (Start: 97 @40235 has 3 MA's), (115, 40295), (120, 40313), (122, 40316), (161, 40457), (180, 40526),

Gene: Wooper_16 Start: 14369, Stop: 14770, Start Num: 71

Candidate Starts for Wooper_16:

(Start: 71 @14369 has 6 MA's), (85, 14390), (101, 14417), (128, 14495), (156, 14606), (165, 14633), (167, 14642), (169, 14648), (182, 14699), (188, 14717), (194, 14741), (200, 14759), (201, 14762),

Gene: Ximenita_33 Start: 26680, Stop: 27144, Start Num: 65

Candidate Starts for Ximenita_33:

(Start: 65 @26680 has 123 MA's), (Start: 78 @26701 has 43 MA's), (Start: 82 @26710 has 3 MA's), (Start: 84 @26713 has 3 MA's), (Start: 100 @26740 has 5 MA's), (115, 26794), (116, 26800), (128, 26827), (141, 26881), (158, 26944), (161, 26956), (179, 27022), (204, 27097),

Gene: Xincheng_15 Start: 14800, Stop: 15201, Start Num: 83

Candidate Starts for Xincheng_15:

(Start: 83 @14800 has 49 MA's), (126, 14902), (135, 14941), (142, 14965), (145, 14974), (156, 15019), (161, 15037), (165, 15046), (167, 15055), (173, 15076), (174, 15085), (204, 15178),

Gene: Y10_33 Start: 28458, Stop: 28856, Start Num: 83

Candidate Starts for Y10_33:

(Start: 83 @28458 has 49 MA's), (Start: 97 @28479 has 3 MA's), (102, 28488), (129, 28575), (133, 28590), (137, 28611), (150, 28656), (154, 28674), (160, 28698), (167, 28719), (171, 28731), (173, 28740), (175, 28755), (182, 28776),

Gene: Y2_33 Start: 28458, Stop: 28856, Start Num: 83

Candidate Starts for Y2_33:

(Start: 83 @28458 has 49 MA's), (Start: 97 @28479 has 3 MA's), (102, 28488), (129, 28575), (133, 28590), (137, 28611), (150, 28656), (154, 28674), (160, 28698), (167, 28719), (171, 28731), (173, 28740), (175, 28755), (182, 28776),

Gene: Yago84_14 Start: 13286, Stop: 13681, Start Num: 89

Candidate Starts for Yago84_14:

(Start: 89 @13286 has 7 MA's), (Start: 95 @13298 has 5 MA's), (111, 13328), (132, 13400), (150, 13469), (167, 13532), (169, 13538), (190, 13616), (194, 13631), (196, 13637),

Gene: Yahalom_17 Start: 14578, Stop: 15012, Start Num: 70

Candidate Starts for Yahalom_17:

(38, 14473), (Start: 70 @14578 has 47 MA's), (103, 14632), (122, 14698), (177, 14899), (178, 14902),

Gene: Yinz_17 Start: 14605, Stop: 15039, Start Num: 70

Candidate Starts for Yinz_17:

(38, 14500), (Start: 70 @14605 has 47 MA's), (103, 14659), (122, 14725), (177, 14926), (178, 14929),

Gene: YoureAdopted_31 Start: 27313, Stop: 27753, Start Num: 65

Candidate Starts for YoureAdopted_31:

(42, 27250), (Start: 65 @27313 has 123 MA's), (Start: 82 @27343 has 3 MA's), (86, 27349), (Start: 89 @27355 has 7 MA's), (Start: 97 @27367 has 3 MA's), (112, 27415), (116, 27433), (128, 27460), (141, 27514), (144, 27523), (158, 27577), (165, 27598), (179, 27655), (189, 27688), (217, 27745),

Gene: Yuna_33 Start: 27088, Stop: 27546, Start Num: 65

Candidate Starts for Yuna_33:

(Start: 65 @27088 has 123 MA's), (Start: 78 @27109 has 43 MA's), (Start: 82 @27118 has 3 MA's), (Start: 84 @27121 has 3 MA's), (Start: 97 @27142 has 3 MA's), (116, 27208), (128, 27235), (141, 27289), (147, 27310), (158, 27352), (160, 27361), (179, 27430),

Gene: Yunkel11_32 Start: 26598, Stop: 27047, Start Num: 65

Candidate Starts for Yunkel11_32:

(Start: 65 @26598 has 123 MA's), (Start: 82 @26628 has 3 MA's), (86, 26634), (Start: 89 @26640 has 7 MA's), (Start: 97 @26652 has 3 MA's), (112, 26700), (115, 26712), (128, 26745), (129, 26748), (141, 26799), (144, 26808), (158, 26862), (165, 26883), (169, 26898), (179, 26940), (215, 27039),

Gene: Yvonnetastic_49 Start: 34634, Stop: 35044, Start Num: 74

Candidate Starts for Yvonnetastic_49:

(Start: 74 @34634 has 2 MA's), (119, 34745), (132, 34778), (137, 34802), (182, 34967),

Gene: Zabiza_32 Start: 27344, Stop: 27784, Start Num: 65

Candidate Starts for Zabiza_32:

(24, 27107), (42, 27281), (Start: 65 @27344 has 123 MA's), (Start: 82 @27374 has 3 MA's), (86, 27380), (Start: 89 @27386 has 7 MA's), (Start: 97 @27398 has 3 MA's), (112, 27446), (116, 27464), (128, 27491), (141, 27545), (157, 27605), (158, 27608), (165, 27629), (179, 27686), (189, 27719), (217, 27776),

Gene: Zavala_32 Start: 27319, Stop: 27759, Start Num: 65

Candidate Starts for Zavala_32:

(24, 27082), (32, 27193), (42, 27256), (Start: 65 @27319 has 123 MA's), (Start: 82 @27349 has 3 MA's), (86, 27355), (Start: 89 @27361 has 7 MA's), (Start: 97 @27373 has 3 MA's), (112, 27421), (116, 27439), (128, 27466), (141, 27520), (144, 27529), (158, 27583), (165, 27604), (179, 27661), (189, 27694), (217, 27751),

Gene: Zemanar_16 Start: 14979, Stop: 15380, Start Num: 83

Candidate Starts for Zemanar_16:

(Start: 83 @14979 has 49 MA's), (126, 15081), (142, 15144), (145, 15153), (156, 15198), (161, 15216), (167, 15234), (173, 15255), (174, 15264), (204, 15357),

Gene: Zirinka_22 Start: 21086, Stop: 21442, Start Num: 104

Candidate Starts for Zirinka_22:

(Start: 104 @21086 has 35 MA's), (118, 21146), (122, 21155), (144, 21230), (160, 21293), (165, 21305), (180, 21365),

Gene: ZoeJ_30 Start: 25982, Stop: 26392, Start Num: 104

Candidate Starts for ZoeJ_30:

(Start: 104 @25982 has 35 MA's), (Start: 105 @25985 has 16 MA's), (108, 25994), (126, 26057), (128, 26063), (131, 26072), (132, 26078), (136, 26099), (139, 26108), (140, 26114), (141, 26117), (144, 26126), (160, 26189), (167, 26210), (172, 26228), (173, 26231),