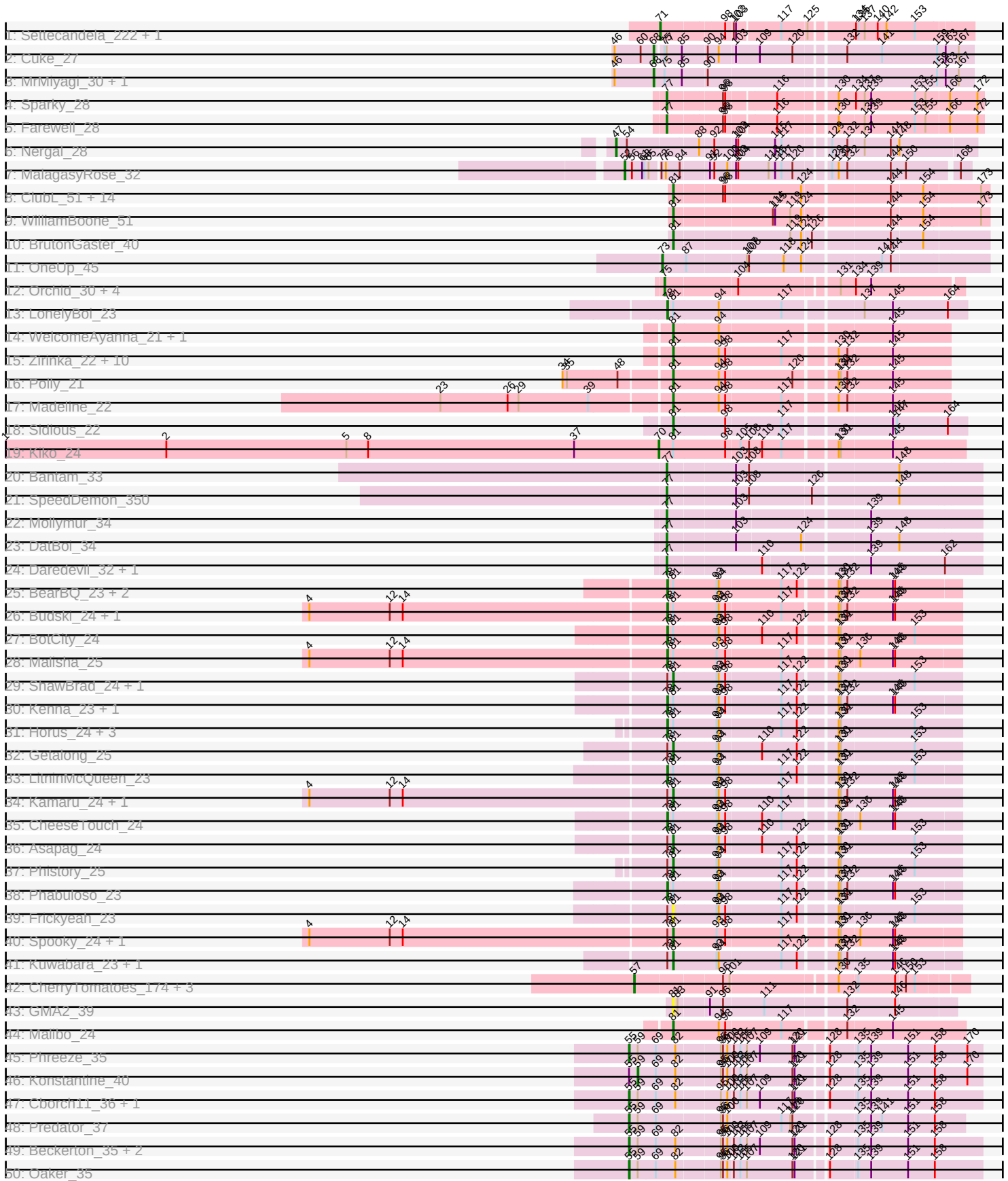
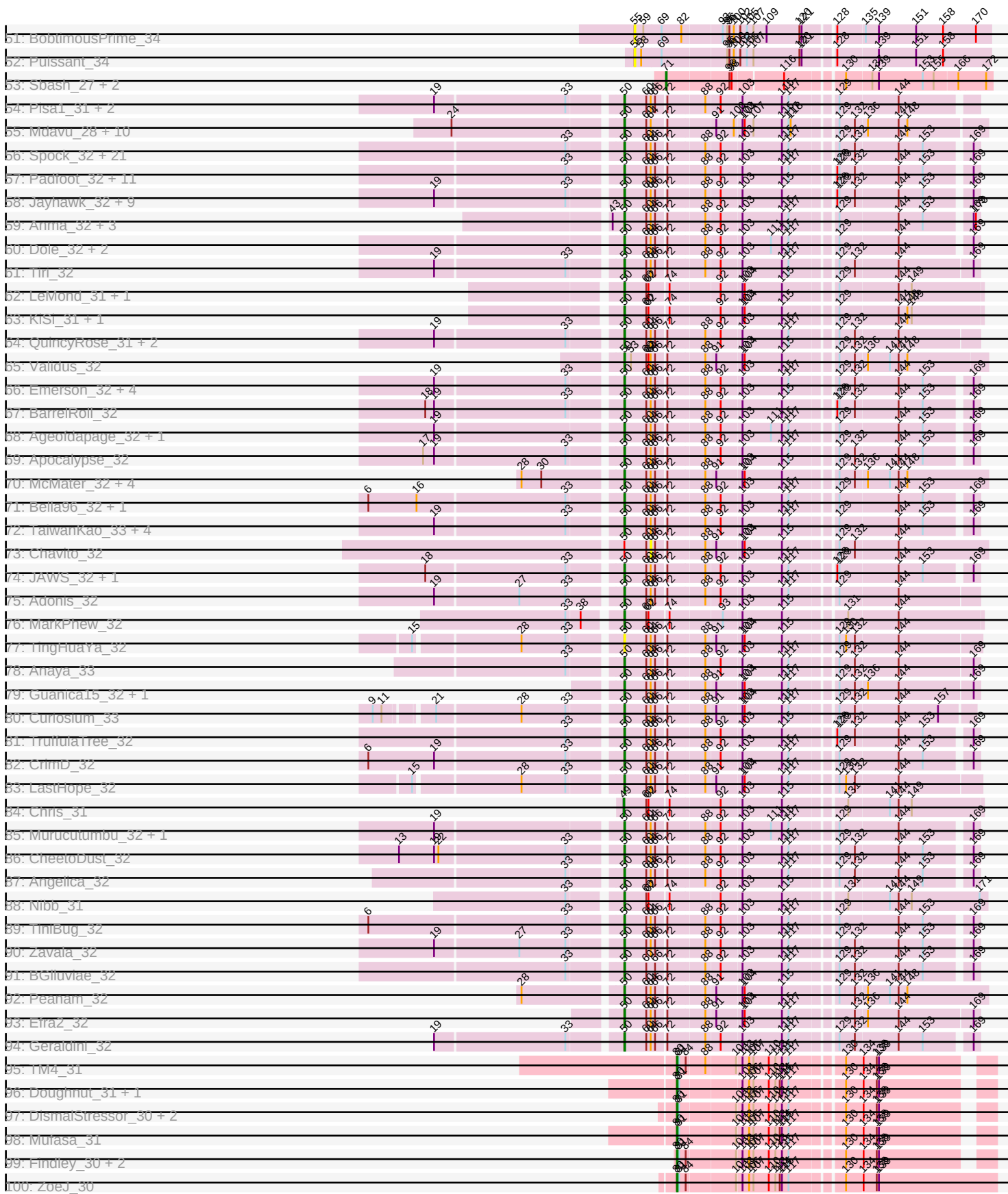
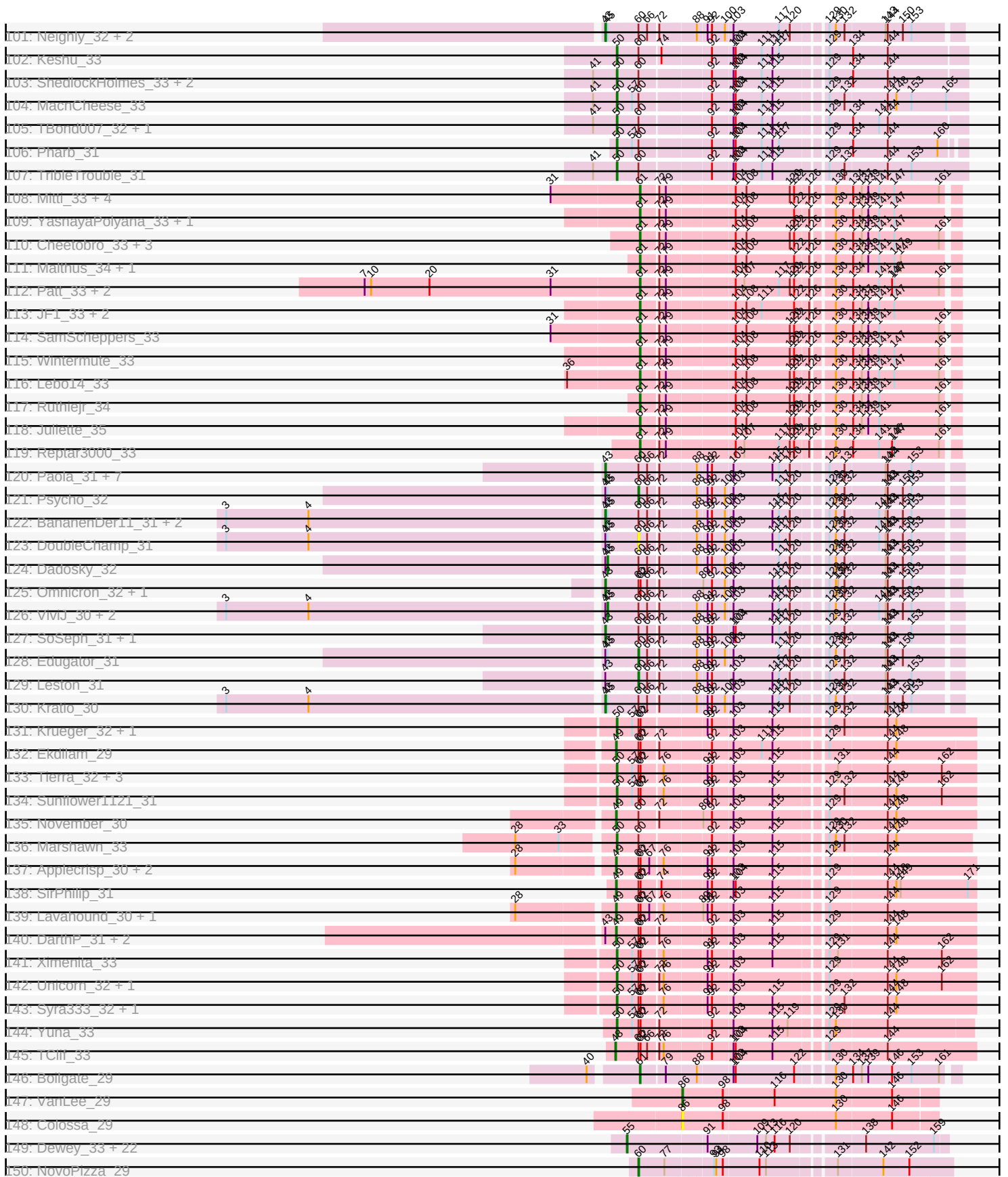


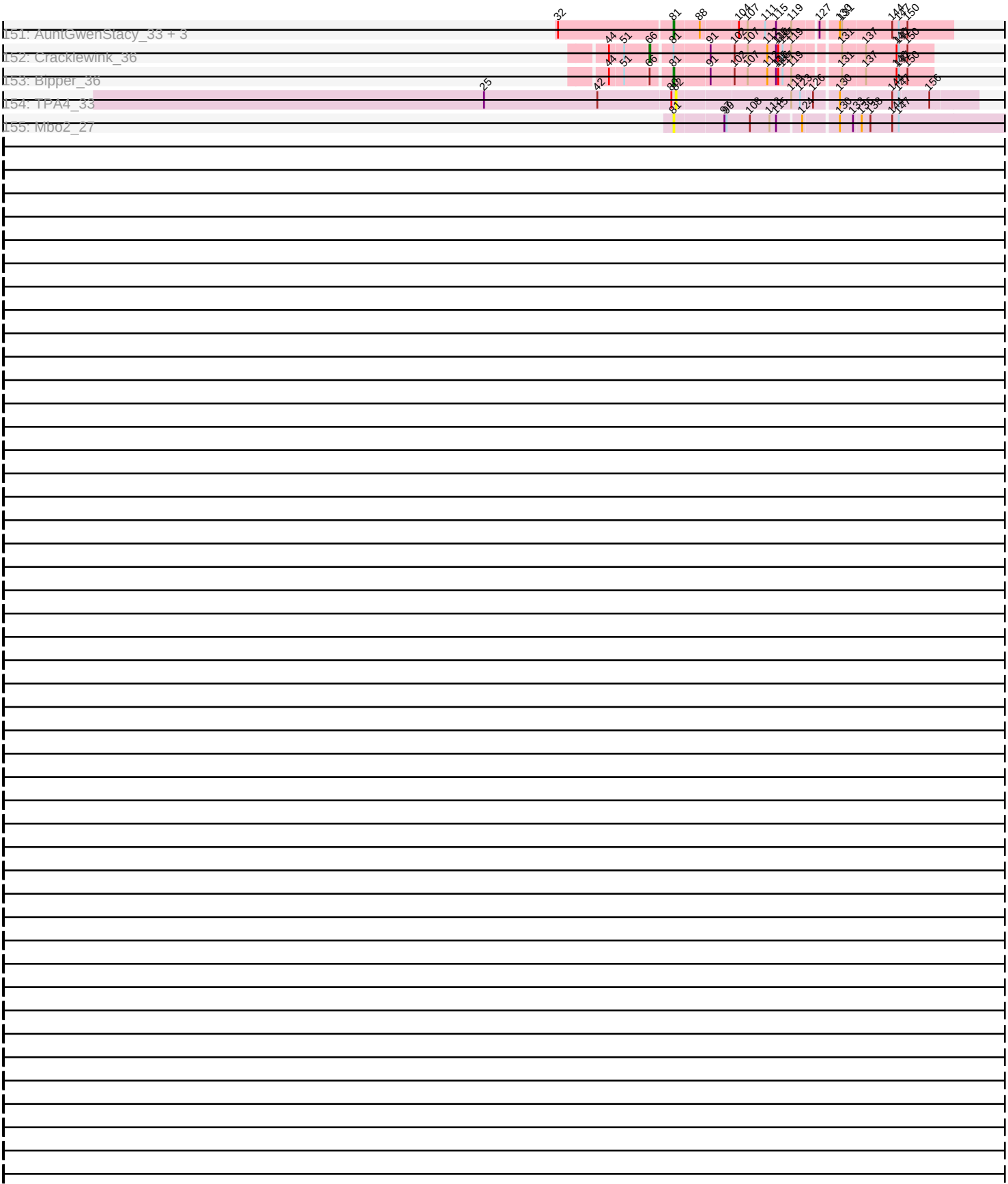




Pham 294355



Pham 294355



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 294355 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294355 has 357 members, 35 are drafts.

Phages represented in each track:

- Track 1 : Settecandela_222, Phrappuccino_197
- Track 2 : Cuke_27
- Track 3 : MrMiyagi_30, Fowlmouth_30
- Track 4 : Sparky_28
- Track 5 : Farewell_28
- Track 6 : Nergal_28
- Track 7 : MalagasyRose_32
- Track 8 : ClubL_51, Toniann_51, Aphelion_51, Bachita_53, Norvs_52, Lozinak_52, Abscondus_50, Smoothie_53, Geeche_50, Engineer_53, Miskis_49, Dusty_50, PhinkBoden_51, Cucurbita_53, Culver_51
- Track 9 : WilliamBoone_51
- Track 10 : BrutonGaster_40
- Track 11 : OneUp_45
- Track 12 : Orchid_30, Gibbles_29, PatrickStar_30, Kampe_30, RobinSparkles_33
- Track 13 : LonelyBoi_23
- Track 14 : WelcomeAyanna_21, ThankyouJordi_21
- Track 15 : Zirinka_22, Nymphadora_22, Madaviève_22, Eviarto_22, BatStarr_22, TimTam_22, Ohgeesy_22, Bosnia_22, Bialota_22, Herod_22, Hugley_22
- Track 16 : Polly_21
- Track 17 : Madeline_22
- Track 18 : Sidious_22
- Track 19 : Kiko_24
- Track 20 : Bantam_33
- Track 21 : SpeedDemon_350
- Track 22 : Mollymur_34
- Track 23 : DatBoi_34
- Track 24 : Daredevil_32, Towmatter_31
- Track 25 : BearBQ_23, MortyNRick_23, Birdsong_23
- Track 26 : Budski_24, Holliday_24
- Track 27 : BotCity_24
- Track 28 : Malisha_25
- Track 29 : ShawBrad_24, Periwinkle_26
- Track 30 : Kenna_23, Lutum_24
- Track 31 : Horus_24, Crater_22, Leroy_24, Apricot_23
- Track 32 : Getalong_25
- Track 33 : LitninMcQueen_23
- Track 34 : Kamaru_24, Whitney_25

- Track 35 : CheeseTouch_24
- Track 36 : Asapag_24
- Track 37 : Phistory_25
- Track 38 : Phabuloso_23
- Track 39 : Frickyeah_23
- Track 40 : Spooky_24, Squiddly_26
- Track 41 : Kuwabara_23, BENtherdunthat_24
- Track 42 : CherryTomatoes_174, Pupper_173, Skog_5, SCentae_172
- Track 43 : GMA2_39
- Track 44 : Malibo_24
- Track 45 : Phreeze_35
- Track 46 : Konstantine_40
- Track 47 : Cborch11_36, Megatron06_37
- Track 48 : Predator_37
- Track 49 : Beckerton_35, Thumb_35, Damien_35
- Track 50 : Oaker_35
- Track 51 : BobtimousPrime_34
- Track 52 : Puissant_34
- Track 53 : Sbash_27, Stuck_31, IdentityCrisis_27
- Track 54 : Pisa1_31, Bern_32, Pisa4_31
- Track 55 : Mdavu_28, Teejan_28, Trice_28, Enkosi_28, Amelie_28, Nikao_28, LilPharaoh_28, Binglebops_28, Torres_28, SgtBeansprout_28, Nutello_28
- Track 56 : Spock_32, MacKat_32, Topper_32, Twitch_32, Llorens_32, Joy99_32, Dalmuri_32, Jeckyll_32, Peel_32, Belladonna_32, CREW_32, AlishaPH_32, Rosmarinus_32, Clipper_32, Lunahalos_32, Sulley_32, Inky_32, Deby_32, Capricorn_32, CallaLilly_32, Jarvi_32, YoureAdopted_31
- Track 57 : Padfoot_32, CaseJules_32, Blizzard_32, Homura_32, BEEST_32, Asayake_32, ShiaSurprise_32, Durfee_32, Piatt_32, BaghaKamala_32, Boiini_32, Hyperbowlee_32
- Track 58 : Jayhawk_32, Slimphazie_32, ActinUp_32, HedwigODU_32, Veliki_32, Atiba_32, Adephagia_32, Tachez_32, Zabiza_32, Rapunzel97_32
- Track 59 : Anma_32, Urkel_32, SamuelLPlaqson_32, DrHayes_32
- Track 60 : Dole_32, Devera_32, Illumine_32
- Track 61 : Tiri_32
- Track 62 : LeMond_31, Oscar_31
- Track 63 : KiSi_31, Scarlett_31
- Track 64 : QuincyRose_31, MeaningOfLife_32, Ganymede_33
- Track 65 : Validus_32
- Track 66 : Emerson_32, Padpat_32, Mynx_32, Beezoo_32, Pokerus_31
- Track 67 : BarrelRoll_32
- Track 68 : Ageofdapage_32, Stinson_33
- Track 69 : Apocalypse_32
- Track 70 : McMater_32, Niklas_32, Richo_32, Dartin_32, Shaobing_32
- Track 71 : Bella96_32, DartGoblin_32
- Track 72 : TaiwanKao_33, Prithvi_32, LindNT_32, TreyKay_32, Megsy_32
- Track 73 : Chavito_32
- Track 74 : JAWS_32, Ramen_32
- Track 75 : Adonis_32
- Track 76 : MarkPhew_32
- Track 77 : TingHuaYa_32
- Track 78 : Anaya_33
- Track 79 : Guanica15_32, Yunkel11_32
- Track 80 : Curiosium_33

- Track 81 : TruffulaTree_32
- Track 82 : CrimD_32
- Track 83 : LastHope_32
- Track 84 : Chris_31
- Track 85 : Murucutumbu_32, LaterM_32
- Track 86 : CheetoDust_32
- Track 87 : Angelica_32
- Track 88 : Nibb_31
- Track 89 : TiniBug_32
- Track 90 : Zavala_32
- Track 91 : BGlluvia_32
- Track 92 : Peanam_32
- Track 93 : Efra2_32
- Track 94 : Geraldini_32
- Track 95 : TM4_31
- Track 96 : Doughnut_31, BoostSeason_31
- Track 97 : DismalStressor_30, Marcoliusprime_30, DismalFunk_30
- Track 98 : Mufasa_31
- Track 99 : Findley_30, Strobilo_30, Milly_30
- Track 100 : ZoeJ_30
- Track 101 : Neighly_32, Larva_32, AlleyCat_32
- Track 102 : Keshu_33
- Track 103 : ShedlockHolmes_33, Hurricane_33, Lea83_33
- Track 104 : MacnCheese_33
- Track 105 : TBond007_32, Pixie_32
- Track 106 : Pharb_31
- Track 107 : TribbleTrouble_31
- Track 108 : Mitti_33, Eponine_35, OmniCritical_33, Taquito_33, DanSyl44_36
- Track 109 : YasnayaPolyana_33, Fionnbharth_33
- Track 110 : Cheetobro_33, Chancellor_33, Qhanda_34, Slarp_33
- Track 111 : Malthus_34, Kraw_33
- Track 112 : Patt_33, Bobquesha_34, MissDaisy_33
- Track 113 : JF1_33, Y2_33, Y10_33
- Track 114 : SamScheppers_33
- Track 115 : Wintermute_33
- Track 116 : Lebo14_33
- Track 117 : Ruthiejr_34
- Track 118 : Juliette_35
- Track 119 : Reptar3000_33
- Track 120 : Paola_31, Thyatira_31, Feyre_31, OkiRoe_31, Waterfoul_31, Gengar_31, Miryou_31, Guillsminger_31
- Track 121 : Psycho_32
- Track 122 : BananenDer11_31, InvictusManeo_31, LilDirt_30
- Track 123 : DoubleChamp_31
- Track 124 : Dadosky_32
- Track 125 : Omnicron_32, Rando14_32
- Track 126 : ViviJ_30, Collard_31, Agent47_31
- Track 127 : SoSeph_31, Heftyboy_31
- Track 128 : Edugator_31
- Track 129 : Leston_31
- Track 130 : Kratio_30
- Track 131 : Krueger_32, Tigress9_33
- Track 132 : Ekdilam_29

- Track 133 : Tierra_32, Phrank_32, Bryler_32, Cain_32
- Track 134 : Sunflower1121_31
- Track 135 : November_30
- Track 136 : Marshawn_33
- Track 137 : Applecrisp_30, Fefferhead_31, Ellie_29
- Track 138 : SirPhilip_31
- Track 139 : Lavahound_30, Amgine_30
- Track 140 : DarthP_31, Hammy_31, Amohnition_31
- Track 141 : Ximenita_33
- Track 142 : Unicorn_32, PhelpsODU_32
- Track 143 : Syra333_32, Shadow1_31
- Track 144 : Yuna_33
- Track 145 : TClif_33
- Track 146 : Boilgate_29
- Track 147 : VanLee_29
- Track 148 : Colossa_29
- Track 149 : Dewey_33, Forge_33, Hail_33, BloominB_34, OBUpride_34, Luna22_33, Hadrien_34, HH92_33, Wishmaker_33, Amymech_34, Gancho_33, Webster2_34, Amochick_34, Giles_33, LilHazelNut_34, Ubuntu_34, Kinbote_34, Gravaillia_33, Evanesce_33, DeepSoil15_34, Luke_34, Ein37_34, Daegal_35
- Track 150 : NovoPizza_29
- Track 151 : AuntGwenStacy_33, Hilltopfarm_33, Faiyaz_33, Typha_33
- Track 152 : Cracklewink_36
- Track 153 : Bipper_36
- Track 154 : TPA4_33
- Track 155 : Mbo2_27

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

The start number called the most often in the published annotations is 50, it was called in 129 of the 322 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ActinUp_32, Adephagia_32, Adonis_32, Ageofdapage_32, AlishaPH_32, Amelie_28, Anaya_33, Angelica_32, Anma_32, Apocalypse_32, Asayake_32, Atiba_32, BEEST_32, BGlluviae_32, BaghaKamala_32, BarrelRoll_32, Beezoo_32, Bella96_32, Belladonna_32, Bern_32, Binglebops_28, Blizzard_32, Boiii_32, Bryler_32, CREW_32, Cain_32, CallaLilly_32, Capricorn_32, CaseJules_32, CheetoDust_32, Clipper_32, CrimD_32, Curiosium_33, Dalmuri_32, DartGoblin_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, Lea83_33, LilPharaoh_28, LindNT_32, Llorens_32, Lunahalos_32, MacKat_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, Pisa1_31, Pisa4_31, 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, Teejan_28, Tierra_32, Tigress9_33, TingHuaYa_32, TiniBug_32, Tiri_32, Topper_32, Torres_28, TreyKay_32, TribbleTrouble_31, Trice_28, 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:

- Chavito_32,

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

- Abscondus_50, Agent47_31, AlleyCat_32, Amgine_30, Amochick_34, Amohnition_31, Amymech_34, Aphelion_51, Applecrisp_30, Apricot_23, Asapag_24, AuntGwenStacy_33, BENtherdunthat_24, Bachita_53, BananenDer11_31, Bantam_33, BatStarr_22, BearBQ_23, Beckerton_35, Bialota_22, Bipper_36, Birdsong_23, BloominB_34, Bobquesha_34, BobtimousPrime_34, Boilgate_29, BoostSeason_31, Bosnia_22, BotCity_24, BrutonGaster_40, Budski_24, Cborch11_36, Chancellor_33, CheeseTouch_24, Cheetobro_33, CherryTomatoes_174, Chris_31, ClubL_51, Collard_31, Colossa_29, Cracklewink_36, Crater_22, Cucurbita_53, Cuke_27, Culver_51, Dadosky_32, Daegal_35, Damien_35, DanSyl44_36, Daredevil_32, DarthP_31, DatBoi_34, DeepSoil15_34, Dewey_33, DismalFunk_30, DismalStressor_30, DoubleChamp_31, Doughnut_31, Dusty_50, Edugator_31, Ein37_34, Ekdilam_29, Ellie_29, Engineer_53, Eponine_35, Evanesce_33, Eviarto_22, Faiyaz_33, Farewell_28, Fefferhead_31, Feyre_31, Findley_30, Fionnbharth_33, Forge_33, Fowlmouth_30, Frickyeah_23, GMA2_39, Gancho_33, Geeche_50, Gengar_31, Getalong_25, Gubbles_29, Giles_33, Gravaillia_33, Guillsminger_31, HH92_33, Hadrien_34, Hail_33, Hammy_31, Heftyboy_31, Herod_22, Hilltopfarm_33, Holliday_24, Horus_24, Hugley_22, IdentityCrisis_27, InvictusManeo_31, JF1_33, Juliette_35, Kamaru_24, Kampe_30, Kenna_23, Kiko_24, Kinbote_34, Konstantine_40, Kratio_30, Kraw_33, Kuwabara_23, Larva_32, Lavahound_30, Lebo14_33, Leroy_24, Leston_31, LilDirt_30, LilHazelnut_34, LitninMcQueen_23, LonelyBoi_23, Lozinak_52, Luke_34, Luna22_33, Lutum_24, Madavieve_22, Madeline_22, MalagasyRose_32, Malibo_24, Malisha_25, Malthus_34, Marcoliusprime_30, Mbo2_27, Megatron06_37, Milly_30, Miryou_31, Miskis_49, MissDaisy_33, Mitti_33, Mollymur_34, MortyNRick_23, MrMiyagi_30, Mufasa_31, Neighly_32, Nergal_28, Norvs_52, November_30, NovoPizza_29, Nymphadora_22, OBUpride_34, Oaker_35, Ohgeesy_22, OkiRoe_31, OmniCritical_33, Omnicron_32, OneUp_45, Orchid_30, Paola_31, PatrickStar_30, Patt_33, Periwinkle_26, Phabuloso_23, PhinkBoden_51, Phistory_25, Phrappuccino_197, Phreeze_35, Polly_21, Predator_37, Psycho_32, Puissant_34, Pupper_173, Qhanda_34, Rando14_32, Reptar3000_33, RobinSparkles_33, Ruthiejr_34, SCentae_172, SamScheppers_33, Sbash_27, Settecandela_222, ShawBrad_24, Sidious_22, SirPhilip_31, Skog_5, Slarp_33, Smoothie_53, SoSeph_31, Sparky_28, SpeedDemon_350, Spooky_24, Squiddly_26, Strobilo_30, Stuck_31, TClif_33, TM4_31, TPA4_33, Taquito_33, ThankyouJordi_21, Thumb_35, Thyatira_31, TimTam_22, Toniann_51, Towmatter_31, Typha_33, Ubuntu_34, VanLee_29, ViviJ_30, Waterfoul_31, Webster2_34, WelcomeAyanna_21, Whitney_25, WilliamBoone_51, Wintermute_33, Wishmaker_33, Y10_33, Y2_33, YasnayaPolyana_33, Zirinka_22, ZoeJ_30,

Summary by start number:

Start 43:

- Found in 34 of 357 (9.5%) of genes in pham
- Manual Annotations of this start: 16 of 322
- Called 55.9% of time when present
- Phage (with cluster) where this start called: AlleyCat_32 (K5), BananenDer11_31 (K5), Feyre_31 (K5), Gengar_31 (K5), Guillsminger_31 (K5), Heftyboy_31 (K5), InvictusManeo_31 (K5), Kratio_30 (K5), Larva_32 (K5), LilDirt_30 (K5), Miryou_31 (K5), Neighly_32 (K3), OkiRoe_31 (K5), Omnicron_32 (K5), Paola_31 (K5), Rando14_32 (K5), SoSeph_31 (K5), Thyatira_31 (K5), Waterfoul_31 (K5),

Start 45:

- Found in 14 of 357 (3.9%) of genes in pham
- Manual Annotations of this start: 4 of 322
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Agent47_31 (K5), Collard_31 (K5), Dadosky_32 (K5), ViviJ_30 (K5),

Start 47:

- Found in 1 of 357 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nergal_28 (AG),

Start 48:

- Found in 2 of 357 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 50.0% of time when present
- Phage (with cluster) where this start called: TClif_33 (K6),

Start 49:

- Found in 12 of 357 (3.4%) of genes in pham
- Manual Annotations of this start: 11 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amgine_30 (K6), Amohnition_31 (K6), Applecrisp_30 (K6), Chris_31 (K1), DarthP_31 (K6), Ekdilam_29 (K6), Ellie_29 (K6), Fefferhead_31 (K6), Hammy_31 (K6), Lavahound_30 (K6), November_30 (K6), SirPhilip_31 (K6),

Start 50:

- Found in 142 of 357 (39.8%) of genes in pham
- Manual Annotations of this start: 129 of 322
- Called 99.3% 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), Anma_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), Bern_32 (K1), Binglebops_28 (K1), Blizzard_32 (K1), Boiii_32 (K1), Bryler_32 (K6), CREW_32 (K1), Cain_32 (K6), CallaLilly_32 (K1), Capricorn_32 (K1), CaseJules_32 (K1), CheetoDust_32 (K1), Clipper_32 (K1), CrimD_32 (K1), Curiosium_33 (K1), Dalmuri_32 (K1), DartGoblin_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), Lea83_33 (K3), LilPharaoh_28 (K1), LindNT_32 (K1), Llorens_32 (K1), Lunahalos_32 (K1), MacKat_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), Pisa1_31 (K1), Pisa4_31 (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), Teejan_28 (K1), Tierra_32 (K6), Tigress9_33 (K6), TingHuaYa_32 (K1), TiniBug_32 (K1), Tiri_32 (K1), Topper_32 (K1), Torres_28 (K1), TreyKay_32 (K1), TribbleTrouble_31 (K3), Trice_28 (K1), 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 52:

- Found in 1 of 357 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_32 (AG),

Start 55:

- Found in 34 of 357 (9.5%) of genes in pham
- Manual Annotations of this start: 30 of 322
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Amochick_34 (Q), Amymech_34 (Q), Beckerton_35 (H1), BloominB_34 (Q), BobtimousPrime_34 (H1), Cborch11_36 (H1), Daegal_35 (Q), Damien_35 (H1), 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), Megatron06_37 (H1), OBUpide_34 (Q), Oaker_35 (H1), Phreeze_35 (H1), Predator_37 (H1), Puissant_34 (H1), Thumb_35 (H1), Ubuntu_34 (Q), Webster2_34 (Q), Wishmaker_33 (Q),

Start 57:

- Found in 19 of 357 (5.3%) of genes in pham
- Manual Annotations of this start: 4 of 322
- Called 21.1% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_174 (DO), Pupper_173 (DO), SCentae_172 (DO), Skog_5 (DO),

Start 59:

- Found in 10 of 357 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 10.0% of time when present

- Phage (with cluster) where this start called: Konstantine_40 (H1),

Start 60:

- Found in 184 of 357 (51.5%) of genes in pham
- Manual Annotations of this start: 4 of 322
- Called 2.7% of time when present
- Phage (with cluster) where this start called: DoubleChamp_31 (K5), Edugator_31 (K5), Leston_31 (K5), NovoPizza_29 (Q), Psycho_32 (K5),

Start 61:

- Found in 27 of 357 (7.6%) of genes in pham
- Manual Annotations of this start: 23 of 322
- Called 96.3% of time when present
- Phage (with cluster) where this start called: Bobquesha_34 (K4), Boilgate_29 (K8), Chancellor_33 (K4), Cheetobro_33 (K4), DanSyl44_36 (K4), Eponine_35 (K4), Fionnbharth_33 (K4), JF1_33 (K4), Juliette_35 (K4), Kraw_33 (K4), Lebo14_33 (K4), Malthus_34 (K4), MissDaisy_33 (K4), Mitti_33 (K4), OmniCritical_33 (K4), Patt_33 (K4), Qhanda_34 (K4), Reptar3000_33 (K4), Ruthiejr_34 (K4), SamScheppers_33 (K4), Slarp_33 (K4), Taquito_33 (K4), Wintermute_33 (K4), Y10_33 (K4), Y2_33 (K4), YasnayaPolyana_33 (K4),

Start 64:

- Found in 112 of 357 (31.4%) of genes in pham
- No Manual Annotations of this start.
- Called 0.9% of time when present
- Phage (with cluster) where this start called: Chavito_32 (K1),

Start 66:

- Found in 132 of 357 (37.0%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 0.8% of time when present
- Phage (with cluster) where this start called: Cracklewink_36 (Y),

Start 68:

- Found in 3 of 357 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cuke_27 (AC), Fowlmouth_30 (AC), MrMiyagi_30 (AC),

Start 70:

- Found in 1 of 357 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kiko_24 (DB),

Start 71:

- Found in 5 of 357 (1.4%) of genes in pham
- Manual Annotations of this start: 4 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IdentityCrisis_27 (AJ), Phrappuccino_197 (AA), Sbash_27 (I2), Settecandela_222 (AA), Stuck_31 (I2),

Start 73:

- Found in 1 of 357 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: OneUp_45 (CQ2),

Start 75:

- Found in 8 of 357 (2.2%) of genes in pham
- Manual Annotations of this start: 5 of 322
- Called 62.5% 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 77:

- Found in 10 of 357 (2.8%) of genes in pham
- Manual Annotations of this start: 8 of 322
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Bantam_33 (DL), Daredevil_32 (DL), DatBoi_34 (DL), Farewell_28 (AF), Mollymur_34 (DL), Sparky_28 (AF), SpeedDemon_350 (DL), Towmatter_31 (DL),

Start 78:

- Found in 29 of 357 (8.1%) of genes in pham
- Manual Annotations of this start: 17 of 322
- Called 58.6% of time when present
- Phage (with cluster) where this start called: Apricot_23 (DN3), BearBQ_23 (DN), Birdsong_23 (DN), BotCity_24 (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 (CY7), Lutum_24 (DN1), Malisha_25 (DN), MortyNRick_23 (DN), Phabuloso_23 (DN1),

Start 80:

- Found in 12 of 357 (3.4%) of genes in pham
- Manual Annotations of this start: 11 of 322
- Called 91.7% of time when present
- Phage (with cluster) where this start called: BoostSeason_31 (K2), DismalFunk_30 (K2), DismalStressor_30 (K2), Doughnut_31 (K2), Findley_30 (K2), Marcoliusprime_30 (K2), Milly_30 (K2), Mufasa_31 (K2), Strobilo_30 (K2), TM4_31 (K2), ZoeJ_30 (K2),

Start 81:

- Found in 83 of 357 (23.2%) of genes in pham
- Manual Annotations of this start: 45 of 322
- Called 63.9% of time when present
- Phage (with cluster) where this start called: Abscondus_50 (CQ1), Aphelion_51 (CQ1), Asapag_24 (DN1), AuntGwenStacy_33 (Y), BENtherdunthat_24 (DN1), Bachita_53 (CQ1), BatStarr_22 (CZ1), Bialota_22 (CZ1), Bipper_36 (Y), Bosnia_22 (CZ1), BrutonGaster_40 (CQ2), ClubL_51 (CQ1), Cucurbita_53 (CQ1), Culver_51 (CQ1), Dusty_50 (CQ1), Engineer_53 (CQ1), Eviarto_22 (CZ1), Faiyaz_33 (Y), Frickyeah_23 (DN1), GMA2_39 (DS), Geeche_50 (CQ1), Getalong_25 (DN1), Herod_22 (CZ1), Hilltopfarm_33 (Y), Hugley_22 (CZ1), Kamaru_24 (DN1), Kuwabara_23 (DN4), Lozinak_52 (CQ1), Madavieve_22 (CZ1), Madeline_22 (CZ1), Malibo_24 (DW), Mbo2_27 (singleton), Miskis_49 (CQ1), Norvs_52 (CQ1),

Nymphadora_22 (CZ1), Ohgeesy_22 (CZ), Periwinkle_26 (DN1), PhinkBoden_51 (CQ1), Phistory_25 (DN1), Polly_21 (CZ1), ShawBrad_24 (DN1), Sidious_22 (CZ7), Smoothie_53 (CQ1), Spooky_24 (DN2), Squiddly_26 (DN2), ThankyouJordi_21 (CZ1), TimTam_22 (CZ1), Toniann_51 (CQ1), Typha_33 (Y), WelcomeAyanna_21 (CZ1), Whitney_25 (DN1), WilliamBoone_51 (CQ1), Zirinka_22 (CZ1),

Start 82:

- Found in 10 of 357 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: TPA4_33 (singleton),

Start 86:

- Found in 2 of 357 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 322
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Colossa_29 (KA), VanLee_29 (KA),

Summary by clusters:

There are 35 clusters represented in this pham: DN, DO, singleton, CZ1, DB, DL, K3, K2, K1, K6, K5, K4, DW, K8, DS, I2, DN4, DN1, DN3, DN2, CQ2, CQ1, AA, AC, CY7, AG, AF, AJ, CZ7, Q, CZ, CX, Y, KA, H1,

Info for manual annotations of cluster AA:

- Start number 71 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AC:

- Start number 68 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster AF:

- Start number 77 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:

- Start number 47 was manually annotated 1 time for cluster AG.
- Start number 52 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AJ:

- Start number 71 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster CQ1:

- Start number 81 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 73 was manually annotated 1 time for cluster CQ2.
- Start number 81 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CX:

- Start number 75 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster CY7:

- Start number 78 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:

- Start number 81 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 81 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster CZ7:

- Start number 81 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DB:

- Start number 70 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DL:

- Start number 77 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DN:

- Start number 78 was manually annotated 6 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 78 was manually annotated 8 times for cluster DN1.
- Start number 81 was manually annotated 7 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 81 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 78 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 81 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DO:

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

Info for manual annotations of cluster DW:

- Start number 81 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster H1:

- Start number 55 was manually annotated 8 times for cluster H1.
- Start number 59 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster I2:

- Start number 71 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster K1:

- Start number 49 was manually annotated 1 time for cluster K1.
- Start number 50 was manually annotated 107 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 80 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 50 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 61 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 43 was manually annotated 16 times for cluster K5.
- Start number 45 was manually annotated 4 times for cluster K5.
- Start number 60 was manually annotated 3 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 48 was manually annotated 1 time for cluster K6.
- Start number 49 was manually annotated 10 times for cluster K6.
- Start number 50 was manually annotated 13 times for cluster K6.

Info for manual annotations of cluster K8:

- Start number 61 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster KA:

- Start number 86 was manually annotated 1 time for cluster KA.

Info for manual annotations of cluster Q:

- Start number 55 was manually annotated 22 times for cluster Q.
- Start number 60 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster Y:

- Start number 66 was manually annotated 1 time for cluster Y.
- Start number 81 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: Abscondus_50 Start: 32639, Stop: 33046, Start Num: 81

Candidate Starts for Abscondus_50:

(Start: 81 @32639 has 45 MA's), (96, 32702), (98, 32705), (124, 32807), (144, 32918), (154, 32960), (173, 33035),

Gene: ActinUp_32 Start: 27346, Stop: 27786, Start Num: 50

Candidate Starts for ActinUp_32:

(19, 27109), (33, 27283), (Start: 50 @27346 has 129 MA's), (Start: 60 @27376 has 4 MA's), (64, 27382), (Start: 66 @27388 has 1 MA's), (72, 27400), (88, 27448), (92, 27466), (103, 27493), (115, 27547), (128, 27607), (129, 27610), (132, 27631), (144, 27688), (153, 27721), (169, 27778),

Gene: Adephagia_32 Start: 27343, Stop: 27783, Start Num: 50

Candidate Starts for Adephagia_32:

(19, 27106), (33, 27280), (Start: 50 @27343 has 129 MA's), (Start: 60 @27373 has 4 MA's), (64, 27379), (Start: 66 @27385 has 1 MA's), (72, 27397), (88, 27445), (92, 27463), (103, 27490), (115, 27544), (128, 27604), (129, 27607), (132, 27628), (144, 27685), (153, 27718), (169, 27775),

Gene: Adonis_32 Start: 27349, Stop: 27798, Start Num: 50

Candidate Starts for Adonis_32:

(19, 27112), (27, 27223), (33, 27286), (Start: 50 @27349 has 129 MA's), (Start: 60 @27379 has 4 MA's), (64, 27385), (Start: 66 @27391 has 1 MA's), (72, 27403), (88, 27451), (92, 27469), (103, 27496), (115, 27550), (117, 27559), (129, 27613), (144, 27691),

Gene: Agent47_31 Start: 27988, Stop: 28437, Start Num: 45

Candidate Starts for Agent47_31:

(3, 27472), (4, 27586), (Start: 43 @27985 has 16 MA's), (Start: 45 @27988 has 4 MA's), (Start: 60 @28030 has 4 MA's), (Start: 66 @28042 has 1 MA's), (72, 28054), (88, 28102), (91, 28114), (92, 28120), (100, 28138), (103, 28147), (115, 28201), (117, 28210), (120, 28225), (129, 28264), (130, 28273), (132, 28285), (141, 28330), (143, 28339), (144, 28342), (150, 28363), (153, 28375),

Gene: Ageofdapage_32 Start: 27286, Stop: 27726, Start Num: 50

Candidate Starts for Ageofdapage_32:

(19, 27049), (Start: 50 @27286 has 129 MA's), (Start: 60 @27316 has 4 MA's), (64, 27322), (Start: 66 @27328 has 1 MA's), (72, 27340), (88, 27388), (92, 27406), (103, 27433), (111, 27472), (115, 27487), (117, 27496), (129, 27550), (144, 27628), (153, 27661), (169, 27718),

Gene: AlishaPH_32 Start: 27336, Stop: 27776, Start Num: 50

Candidate Starts for AlishaPH_32:

(33, 27273), (Start: 50 @27336 has 129 MA's), (Start: 60 @27366 has 4 MA's), (64, 27372), (Start: 66 @27378 has 1 MA's), (72, 27390), (88, 27438), (92, 27456), (103, 27483), (115, 27537), (117, 27546), (129, 27600), (132, 27621), (144, 27678), (153, 27711), (169, 27768),

Gene: AlleyCat_32 Start: 27916, Stop: 28368, Start Num: 43

Candidate Starts for AlleyCat_32:

(Start: 43 @27916 has 16 MA's), (Start: 45 @27919 has 4 MA's), (Start: 60 @27961 has 4 MA's), (Start: 66 @27973 has 1 MA's), (72, 27985), (88, 28033), (91, 28045), (92, 28051), (100, 28069), (103, 28078), (117, 28141), (120, 28156), (129, 28195), (130, 28204), (132, 28216), (143, 28270), (144, 28273), (150, 28294), (153, 28306),

Gene: Amelie_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for Amelie_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: Amgine_30 Start: 27287, Stop: 27751, Start Num: 49

Candidate Starts for Amgine_30:

(28, 27164), (Start: 49 @27287 has 11 MA's), (Start: 60 @27317 has 4 MA's), (62, 27320), (67, 27332), (76, 27347), (89, 27395), (91, 27401), (92, 27407), (103, 27434), (115, 27488), (129, 27551), (144, 27629),

Gene: Amochick_34 Start: 29602, Stop: 30012, Start Num: 55

Candidate Starts for Amochick_34:

(Start: 55 @29602 has 30 MA's), (91, 29704), (109, 29770), (113, 29782), (116, 29794), (120, 29815), (138, 29902), (159, 29995),

Gene: Amohnition_31 Start: 27721, Stop: 28185, Start Num: 49

Candidate Starts for Amohnition_31:

(Start: 43 @27706 has 16 MA's), (Start: 49 @27721 has 11 MA's), (Start: 60 @27751 has 4 MA's), (62, 27754), (72, 27775), (92, 27841), (103, 27868), (115, 27922), (129, 27985), (144, 28063), (148, 28075),

Gene: Amymech_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Amymech_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Anaya_33 Start: 27362, Stop: 27811, Start Num: 50

Candidate Starts for Anaya_33:

(33, 27299), (Start: 50 @27362 has 129 MA's), (Start: 60 @27392 has 4 MA's), (64, 27398), (Start: 66 @27404 has 1 MA's), (72, 27416), (88, 27464), (92, 27482), (103, 27509), (115, 27563), (117, 27572), (129, 27626), (132, 27647), (144, 27704), (169, 27803),

Gene: Angelica_32 Start: 27293, Stop: 27733, Start Num: 50

Candidate Starts for Angelica_32:

(33, 27230), (Start: 50 @27293 has 129 MA's), (Start: 60 @27323 has 4 MA's), (64, 27329), (Start: 66 @27335 has 1 MA's), (72, 27347), (88, 27395), (92, 27413), (103, 27440), (115, 27494), (117, 27503), (129, 27557), (132, 27578), (144, 27635), (153, 27668), (169, 27725),

Gene: Anma_32 Start: 27266, Stop: 27706, Start Num: 50

Candidate Starts for Anma_32:

(Start: 43 @27251 has 16 MA's), (Start: 50 @27266 has 129 MA's), (Start: 60 @27296 has 4 MA's), (64, 27302), (Start: 66 @27308 has 1 MA's), (72, 27320), (88, 27368), (92, 27386), (103, 27413), (115, 27467), (117, 27476), (129, 27530), (144, 27608), (153, 27641), (169, 27698), (170, 27701),

Gene: Aphelion_51 Start: 32908, Stop: 33315, Start Num: 81

Candidate Starts for Aphelion_51:

(Start: 81 @32908 has 45 MA's), (96, 32971), (98, 32974), (124, 33076), (144, 33187), (154, 33229), (173, 33304),

Gene: Apocalypse_32 Start: 27314, Stop: 27754, Start Num: 50

Candidate Starts for Apocalypse_32:

(17, 27062), (19, 27077), (33, 27251), (Start: 50 @27314 has 129 MA's), (Start: 60 @27344 has 4 MA's), (64, 27350), (Start: 66 @27356 has 1 MA's), (72, 27368), (88, 27416), (92, 27434), (103, 27461), (115, 27515), (117, 27524), (129, 27578), (132, 27599), (144, 27656), (153, 27689), (169, 27746),

Gene: Applecrisp_30 Start: 27709, Stop: 28173, Start Num: 49

Candidate Starts for Applecrisp_30:

(28, 27586), (Start: 49 @27709 has 11 MA's), (Start: 60 @27739 has 4 MA's), (62, 27742), (67, 27754), (76, 27769), (91, 27823), (92, 27829), (103, 27856), (115, 27910), (129, 27973), (144, 28051),

Gene: Apricot_23 Start: 19749, Stop: 20129, Start Num: 78

Candidate Starts for Apricot_23:

(Start: 78 @19749 has 17 MA's), (Start: 81 @19755 has 45 MA's), (93, 19812), (94, 19815), (117, 19899), (122, 19920), (130, 19962), (131, 19965), (153, 20064),

Gene: Asapag_24 Start: 20197, Stop: 20571, Start Num: 81

Candidate Starts for Asapag_24:

(Start: 78 @20191 has 17 MA's), (Start: 81 @20197 has 45 MA's), (93, 20254), (94, 20257), (98, 20266), (110, 20314), (122, 20362), (130, 20404), (131, 20407), (153, 20506),

Gene: Asayake_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Asayake_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Atiba_32 Start: 27306, Stop: 27746, Start Num: 50

Candidate Starts for Atiba_32:

(19, 27069), (33, 27243), (Start: 50 @27306 has 129 MA's), (Start: 60 @27336 has 4 MA's), (64, 27342), (Start: 66 @27348 has 1 MA's), (72, 27360), (88, 27408), (92, 27426), (103, 27453), (115, 27507), (128, 27567), (129, 27570), (132, 27591), (144, 27648), (153, 27681), (169, 27738),

Gene: AuntGwenStacy_33 Start: 30335, Stop: 30691, Start Num: 81

Candidate Starts for AuntGwenStacy_33:

(32, 30185), (Start: 81 @30335 has 45 MA's), (88, 30368), (104, 30416), (107, 30428), (111, 30452), (115, 30467), (119, 30488), (127, 30518), (130, 30539), (131, 30542), (144, 30608), (147, 30617), (150, 30629),

Gene: BEEST_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for BEEST_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: BENtherdunthat_24 Start: 20197, Stop: 20568, Start Num: 81

Candidate Starts for BENtherdunthat_24:

(Start: 78 @20191 has 17 MA's), (Start: 81 @20197 has 45 MA's), (93, 20254), (94, 20257), (117, 20341), (122, 20362), (130, 20404), (131, 20407), (132, 20416), (145, 20476), (146, 20479),

Gene: BGlluviae_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for BGlluviae_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Bachita_53 Start: 33341, Stop: 33748, Start Num: 81

Candidate Starts for Bachita_53:

(Start: 81 @33341 has 45 MA's), (96, 33404), (98, 33407), (124, 33509), (144, 33620), (154, 33662), (173, 33737),

Gene: BaghaKamala_32 Start: 27306, Stop: 27746, Start Num: 50

Candidate Starts for BaghaKamala_32:

(33, 27243), (Start: 50 @27306 has 129 MA's), (Start: 60 @27336 has 4 MA's), (64, 27342), (Start: 66 @27348 has 1 MA's), (72, 27360), (88, 27408), (92, 27426), (103, 27453), (115, 27507), (117, 27516), (128, 27567), (129, 27570), (132, 27591), (144, 27648), (153, 27681), (169, 27738),

Gene: BananenDer11_31 Start: 27946, Stop: 28398, Start Num: 43

Candidate Starts for BananenDer11_31:

(3, 27433), (4, 27547), (Start: 43 @27946 has 16 MA's), (Start: 45 @27949 has 4 MA's), (Start: 60 @27991 has 4 MA's), (Start: 66 @28003 has 1 MA's), (72, 28015), (88, 28063), (91, 28075), (92, 28081), (100, 28099), (103, 28108), (115, 28162), (117, 28171), (120, 28186), (129, 28225), (130, 28234), (132, 28246), (141, 28291), (143, 28300), (144, 28303), (150, 28324), (153, 28336),

Gene: Bantam_33 Start: 30576, Stop: 30989, Start Num: 77

Candidate Starts for Bantam_33:

(Start: 77 @30576 has 8 MA's), (103, 30666), (108, 30684), (148, 30879),

Gene: BarrelRoll_32 Start: 27329, Stop: 27769, Start Num: 50

Candidate Starts for BarrelRoll_32:

(18, 27080), (19, 27092), (33, 27266), (Start: 50 @27329 has 129 MA's), (Start: 60 @27359 has 4 MA's), (64, 27365), (Start: 66 @27371 has 1 MA's), (72, 27383), (88, 27431), (92, 27449), (103, 27476), (115, 27530), (128, 27590), (129, 27593), (132, 27614), (144, 27671), (153, 27704), (169, 27761),

Gene: BatStarr_22 Start: 21074, Stop: 21430, Start Num: 81

Candidate Starts for BatStarr_22:

(Start: 81 @21074 has 45 MA's), (94, 21134), (98, 21143), (117, 21218), (130, 21281), (132, 21293), (145, 21353),

Gene: BearBQ_23 Start: 21031, Stop: 21408, Start Num: 78

Candidate Starts for BearBQ_23:

(Start: 78 @21031 has 17 MA's), (Start: 81 @21037 has 45 MA's), (93, 21094), (94, 21097), (117, 21181), (122, 21202), (130, 21244), (131, 21247), (132, 21256), (145, 21316), (146, 21319),

Gene: Beckerton_35 Start: 32917, Stop: 33378, Start Num: 55

Candidate Starts for Beckerton_35:

(Start: 55 @32917 has 30 MA's), (Start: 59 @32929 has 1 MA's), (69, 32953), (82, 32980), (95, 33037), (96, 33040), (100, 33046), (102, 33052), (105, 33061), (107, 33070), (109, 33088), (120, 33133), (121, 33136), (128, 33172), (135, 33208), (139, 33226), (151, 33277), (158, 33313),

Gene: Beezoo_32 Start: 27354, Stop: 27794, Start Num: 50

Candidate Starts for Beezoo_32:

(19, 27117), (33, 27291), (Start: 50 @27354 has 129 MA's), (Start: 60 @27384 has 4 MA's), (64, 27390), (Start: 66 @27396 has 1 MA's), (72, 27408), (88, 27456), (92, 27474), (103, 27501), (115, 27555), (117, 27564), (129, 27618), (132, 27639), (144, 27696), (153, 27729), (169, 27786),

Gene: Bella96_32 Start: 27247, Stop: 27687, Start Num: 50

Candidate Starts for Bella96_32:

(6, 26920), (16, 26986), (33, 27184), (Start: 50 @27247 has 129 MA's), (Start: 60 @27277 has 4 MA's), (64, 27283), (Start: 66 @27289 has 1 MA's), (72, 27301), (88, 27349), (92, 27367), (103, 27394), (115, 27448), (117, 27457), (129, 27511), (144, 27589), (153, 27622), (169, 27679),

Gene: Belladonna_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Belladonna_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Bern_32 Start: 27286, Stop: 27726, Start Num: 50

Candidate Starts for Bern_32:

(19, 27049), (33, 27223), (Start: 50 @27286 has 129 MA's), (Start: 60 @27316 has 4 MA's), (64, 27322), (Start: 66 @27328 has 1 MA's), (72, 27340), (88, 27388), (92, 27406), (103, 27433), (115, 27487), (117, 27496), (129, 27550), (144, 27628),

Gene: Bialota_22 Start: 21086, Stop: 21442, Start Num: 81

Candidate Starts for Bialota_22:

(Start: 81 @21086 has 45 MA's), (94, 21146), (98, 21155), (117, 21230), (130, 21293), (132, 21305), (145, 21365),

Gene: Binglebops_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for Binglebops_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: Bipper_36 Start: 31123, Stop: 31452, Start Num: 81

Candidate Starts for Bipper_36:

(44, 31051), (51, 31069), (Start: 66 @31099 has 1 MA's), (Start: 81 @31123 has 45 MA's), (91, 31168), (102, 31198), (107, 31216), (112, 31243), (115, 31255), (116, 31258), (117, 31264), (119, 31276), (131, 31330), (137, 31360), (146, 31402), (147, 31405), (150, 31417),

Gene: Birdsong_23 Start: 19924, Stop: 20301, Start Num: 78

Candidate Starts for Birdsong_23:

(Start: 78 @19924 has 17 MA's), (Start: 81 @19930 has 45 MA's), (93, 19987), (94, 19990), (117, 20074), (122, 20095), (130, 20137), (131, 20140), (132, 20149), (145, 20209), (146, 20212),

Gene: Blizzard_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Blizzard_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: BloominB_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for BloominB_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Bobquesha_34 Start: 28211, Stop: 28609, Start Num: 61

Candidate Starts for Bobquesha_34:

(7, 27833), (10, 27842), (20, 27923), (31, 28091), (Start: 61 @28211 has 23 MA's), (72, 28232), (79, 28241), (104, 28328), (107, 28340), (117, 28388), (120, 28403), (122, 28409), (126, 28427), (130, 28451), (134, 28472), (141, 28508), (146, 28526), (147, 28529), (161, 28589),

Gene: BobtimousPrime_34 Start: 32837, Stop: 33298, Start Num: 55

Candidate Starts for BobtimousPrime_34:

(Start: 55 @32837 has 30 MA's), (Start: 59 @32849 has 1 MA's), (69, 32873), (82, 32900), (93, 32951), (95, 32957), (96, 32960), (100, 32966), (102, 32972), (105, 32981), (107, 32990), (109, 33008), (120, 33053), (121, 33056), (128, 33092), (135, 33128), (139, 33146), (151, 33197), (158, 33233), (170, 33278),

Gene: Boiiii_32 Start: 27379, Stop: 27819, Start Num: 50

Candidate Starts for Boiiii_32:

(33, 27316), (Start: 50 @27379 has 129 MA's), (Start: 60 @27409 has 4 MA's), (64, 27415), (Start: 66 @27421 has 1 MA's), (72, 27433), (88, 27481), (92, 27499), (103, 27526), (115, 27580), (117, 27589), (128, 27640), (129, 27643), (132, 27664), (144, 27721), (153, 27754), (169, 27811),

Gene: Boilgate_29 Start: 29197, Stop: 29595, Start Num: 61

Candidate Starts for Boilgate_29:

(40, 29137), (Start: 61 @29197 has 23 MA's), (79, 29227), (88, 29266), (103, 29311), (104, 29314), (122, 29395), (130, 29437), (134, 29458), (137, 29470), (139, 29479), (146, 29512), (153, 29539), (161, 29575),

Gene: BoostSeason_31 Start: 26116, Stop: 26502, Start Num: 80

Candidate Starts for BoostSeason_31:

(Start: 80 @26116 has 11 MA's), (Start: 81 @26119 has 45 MA's), (103, 26197), (106, 26206), (107, 26212), (110, 26233), (113, 26242), (114, 26248), (115, 26251), (117, 26260), (130, 26323), (134, 26344), (138, 26362), (139, 26365),

Gene: Bosnia_22 Start: 21074, Stop: 21430, Start Num: 81

Candidate Starts for Bosnia_22:

(Start: 81 @21074 has 45 MA's), (94, 21134), (98, 21143), (117, 21218), (130, 21281), (132, 21293), (145, 21353),

Gene: BotCity_24 Start: 20189, Stop: 20569, Start Num: 78

Candidate Starts for BotCity_24:

(Start: 78 @20189 has 17 MA's), (Start: 81 @20195 has 45 MA's), (93, 20252), (94, 20255), (98, 20264), (110, 20312), (122, 20360), (130, 20402), (131, 20405), (153, 20504),

Gene: BrutonGaster_40 Start: 30025, Stop: 30432, Start Num: 81

Candidate Starts for BrutonGaster_40:

(Start: 81 @30025 has 45 MA's), (119, 30178), (124, 30193), (126, 30205), (144, 30304), (154, 30346),

Gene: Bryler_32 Start: 26627, Stop: 27091, Start Num: 50

Candidate Starts for Bryler_32:

(Start: 50 @26627 has 129 MA's), (Start: 57 @26648 has 4 MA's), (Start: 60 @26657 has 4 MA's), (62, 26660), (76, 26687), (91, 26741), (92, 26747), (103, 26774), (115, 26828), (131, 26903), (144, 26969), (162, 27044),

Gene: Budski_24 Start: 20296, Stop: 20676, Start Num: 78

Candidate Starts for Budski_24:

(4, 19807), (12, 19918), (14, 19936), (Start: 78 @20296 has 17 MA's), (Start: 81 @20302 has 45 MA's), (93, 20359), (94, 20362), (98, 20371), (117, 20446), (130, 20509), (131, 20512), (132, 20521), (145, 20581), (146, 20584),

Gene: CREW_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for CREW_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Cain_32 Start: 26615, Stop: 27079, Start Num: 50

Candidate Starts for Cain_32:

(Start: 50 @26615 has 129 MA's), (Start: 57 @26636 has 4 MA's), (Start: 60 @26645 has 4 MA's), (62, 26648), (76, 26675), (91, 26729), (92, 26735), (103, 26762), (115, 26816), (131, 26891), (144, 26957), (162, 27032),

Gene: CallaLilly_32 Start: 27300, Stop: 27740, Start Num: 50

Candidate Starts for CallaLilly_32:

(33, 27237), (Start: 50 @27300 has 129 MA's), (Start: 60 @27330 has 4 MA's), (64, 27336), (Start: 66 @27342 has 1 MA's), (72, 27354), (88, 27402), (92, 27420), (103, 27447), (115, 27501), (117, 27510), (129, 27564), (132, 27585), (144, 27642), (153, 27675), (169, 27732),

Gene: Capricorn_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Capricorn_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: CaseJules_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for CaseJules_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Cborch11_36 Start: 32382, Stop: 32843, Start Num: 55

Candidate Starts for Cborch11_36:

(Start: 55 @32382 has 30 MA's), (Start: 59 @32394 has 1 MA's), (69, 32418), (82, 32445), (95, 32502), (100, 32511), (102, 32517), (105, 32526), (107, 32535), (109, 32553), (120, 32598), (121, 32601), (128, 32637), (135, 32673), (139, 32691), (151, 32742), (158, 32778),

Gene: Chancellor_33 Start: 28471, Stop: 28869, Start Num: 61

Candidate Starts for Chancellor_33:

(Start: 61 @28471 has 23 MA's), (72, 28492), (79, 28501), (104, 28588), (108, 28603), (120, 28663), (122, 28669), (126, 28687), (130, 28711), (134, 28732), (137, 28744), (139, 28753), (141, 28768), (147, 28789), (161, 28849),

Gene: Chavito_32 Start: 26970, Stop: 27398, Start Num: 64

Candidate Starts for Chavito_32:

(Start: 50 @26934 has 129 MA's), (Start: 60 @26964 has 4 MA's), (64, 26970), (Start: 66 @26976 has 1 MA's), (72, 26988), (88, 27036), (91, 27048), (103, 27081), (104, 27084), (115, 27135), (129, 27198), (132, 27219), (144, 27276),

Gene: CheeseTouch_24 Start: 20185, Stop: 20562, Start Num: 78

Candidate Starts for CheeseTouch_24:

(Start: 78 @20185 has 17 MA's), (Start: 81 @20191 has 45 MA's), (93, 20248), (94, 20251), (98, 20260), (110, 20308), (117, 20335), (130, 20398), (131, 20401), (136, 20425), (145, 20470), (146, 20473),

Gene: CheetoDust_32 Start: 27354, Stop: 27794, Start Num: 50

Candidate Starts for CheetoDust_32:

(13, 27069), (19, 27117), (22, 27123), (33, 27291), (Start: 50 @27354 has 129 MA's), (Start: 60 @27384 has 4 MA's), (64, 27390), (Start: 66 @27396 has 1 MA's), (72, 27408), (88, 27456), (92, 27474), (103, 27501), (115, 27555), (117, 27564), (129, 27618), (132, 27639), (144, 27696), (153, 27729), (169, 27786),

Gene: Cheetobro_33 Start: 28468, Stop: 28866, Start Num: 61

Candidate Starts for Cheetobro_33:

(Start: 61 @28468 has 23 MA's), (72, 28489), (79, 28498), (104, 28585), (108, 28600), (120, 28660), (122, 28666), (126, 28684), (130, 28708), (134, 28729), (137, 28741), (139, 28750), (141, 28765), (147, 28786), (161, 28846),

Gene: CherryTomatoes_174 Start: 126292, Stop: 126711, Start Num: 57

Candidate Starts for CherryTomatoes_174:

(Start: 57 @126292 has 4 MA's), (96, 126406), (101, 126415), (130, 126547), (135, 126571), (146, 126622), (150, 126634), (153, 126646),

Gene: Chris_31 Start: 26496, Stop: 26951, Start Num: 49

Candidate Starts for Chris_31:

(Start: 49 @26496 has 11 MA's), (Start: 60 @26526 has 4 MA's), (62, 26529), (74, 26553), (92, 26616), (103, 26643), (115, 26697), (131, 26772), (141, 26826), (144, 26838), (149, 26856),

Gene: Clipper_32 Start: 27354, Stop: 27794, Start Num: 50

Candidate Starts for Clipper_32:

(33, 27291), (Start: 50 @27354 has 129 MA's), (Start: 60 @27384 has 4 MA's), (64, 27390), (Start: 66 @27396 has 1 MA's), (72, 27408), (88, 27456), (92, 27474), (103, 27501), (115, 27555), (117, 27564), (129, 27618), (132, 27639), (144, 27696), (153, 27729), (169, 27786),

Gene: ClubL_51 Start: 32830, Stop: 33237, Start Num: 81

Candidate Starts for ClubL_51:

(Start: 81 @32830 has 45 MA's), (96, 32893), (98, 32896), (124, 32998), (144, 33109), (154, 33151), (173, 33226),

Gene: Collard_31 Start: 27949, Stop: 28398, Start Num: 45

Candidate Starts for Collard_31:

(3, 27433), (4, 27547), (Start: 43 @27946 has 16 MA's), (Start: 45 @27949 has 4 MA's), (Start: 60 @27991 has 4 MA's), (Start: 66 @28003 has 1 MA's), (72, 28015), (88, 28063), (91, 28075), (92, 28081), (100, 28099), (103, 28108), (115, 28162), (117, 28171), (120, 28186), (129, 28225), (130, 28234), (132, 28246), (141, 28291), (143, 28300), (144, 28303), (150, 28324), (153, 28336),

Gene: Colossa_29 Start: 25214, Stop: 25555, Start Num: 86

Candidate Starts for Colossa_29:

(Start: 86 @25214 has 1 MA's), (98, 25268), (130, 25421), (146, 25496),

Gene: Cracklewink_36 Start: 31099, Stop: 31452, Start Num: 66

Candidate Starts for Cracklewink_36:

(44, 31051), (51, 31069), (Start: 66 @31099 has 1 MA's), (Start: 81 @31123 has 45 MA's), (91, 31168), (102, 31198), (107, 31216), (112, 31243), (115, 31255), (116, 31258), (117, 31264), (119, 31276), (131, 31330), (137, 31360), (146, 31402), (147, 31405), (150, 31417),

Gene: Crater_22 Start: 19749, Stop: 20129, Start Num: 78

Candidate Starts for Crater_22:

(Start: 78 @19749 has 17 MA's), (Start: 81 @19755 has 45 MA's), (93, 19812), (94, 19815), (117, 19899), (122, 19920), (130, 19962), (131, 19965), (153, 20064),

Gene: CrimD_32 Start: 27314, Stop: 27754, Start Num: 50

Candidate Starts for CrimD_32:

(6, 26987), (19, 27077), (33, 27251), (Start: 50 @27314 has 129 MA's), (Start: 60 @27344 has 4 MA's), (64, 27350), (Start: 66 @27356 has 1 MA's), (72, 27368), (88, 27416), (92, 27434), (103, 27461), (115, 27515), (117, 27524), (129, 27578), (144, 27656), (153, 27689), (169, 27746),

Gene: Cucurbita_53 Start: 34200, Stop: 34607, Start Num: 81

Candidate Starts for Cucurbita_53:

(Start: 81 @34200 has 45 MA's), (96, 34263), (98, 34266), (124, 34368), (144, 34479), (154, 34521), (173, 34596),

Gene: Cuke_27 Start: 25711, Stop: 26124, Start Num: 68

Candidate Starts for Cuke_27:

(46, 25657), (Start: 60 @25693 has 4 MA's), (Start: 68 @25711 has 3 MA's), (Start: 75 @25720 has 5 MA's), (Start: 77 @25723 has 8 MA's), (85, 25744), (90, 25777), (94, 25792), (103, 25813), (109, 25846), (120, 25891), (132, 25951), (141, 25999), (159, 26074), (163, 26086), (167, 26104),

Gene: Culver_51 Start: 32639, Stop: 33046, Start Num: 81

Candidate Starts for Culver_51:

(Start: 81 @32639 has 45 MA's), (96, 32702), (98, 32705), (124, 32807), (144, 32918), (154, 32960), (173, 33035),

Gene: Curiosium_33 Start: 27140, Stop: 27580, Start Num: 50

Candidate Starts for Curiosium_33:

(9, 26840), (11, 26852), (21, 26906), (28, 27017), (33, 27077), (Start: 50 @27140 has 129 MA's), (Start: 60 @27170 has 4 MA's), (64, 27176), (Start: 66 @27182 has 1 MA's), (72, 27194), (88, 27242), (91, 27254), (103, 27287), (104, 27290), (115, 27341), (117, 27350), (129, 27404), (132, 27425), (144, 27482), (157, 27536),

Gene: Dadosky_32 Start: 27920, Stop: 28369, Start Num: 45

Candidate Starts for Dadosky_32:

(Start: 43 @27917 has 16 MA's), (Start: 45 @27920 has 4 MA's), (Start: 60 @27962 has 4 MA's), (Start: 66 @27974 has 1 MA's), (72, 27986), (88, 28034), (91, 28046), (92, 28052), (100, 28070), (103, 28079), (117, 28142), (120, 28157), (129, 28196), (130, 28205), (132, 28217), (143, 28271), (144, 28274), (150, 28295), (153, 28307),

Gene: Daegal_35 Start: 29890, Stop: 30300, Start Num: 55

Candidate Starts for Daegal_35:

(Start: 55 @29890 has 30 MA's), (91, 29992), (109, 30058), (113, 30070), (116, 30082), (120, 30103), (138, 30190), (159, 30283),

Gene: Dalmuri_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Dalmuri_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Damien_35 Start: 32383, Stop: 32844, Start Num: 55

Candidate Starts for Damien_35:

(Start: 55 @32383 has 30 MA's), (Start: 59 @32395 has 1 MA's), (69, 32419), (82, 32446), (95, 32503), (96, 32506), (100, 32512), (102, 32518), (105, 32527), (107, 32536), (109, 32554), (120, 32599), (121, 32602), (128, 32638), (135, 32674), (139, 32692), (151, 32743), (158, 32779),

Gene: DanSyl44_36 Start: 29337, Stop: 29735, Start Num: 61

Candidate Starts for DanSyl44_36:

(31, 29217), (Start: 61 @29337 has 23 MA's), (72, 29358), (79, 29367), (104, 29454), (108, 29469), (120, 29529), (122, 29535), (126, 29553), (130, 29577), (134, 29598), (137, 29610), (139, 29619), (141, 29634), (147, 29655), (161, 29715),

Gene: Daredevil_32 Start: 29087, Stop: 29497, Start Num: 77

Candidate Starts for Daredevil_32:

(Start: 77 @29087 has 8 MA's), (110, 29213), (139, 29348), (162, 29447),

Gene: DartGoblin_32 Start: 27241, Stop: 27681, Start Num: 50

Candidate Starts for DartGoblin_32:

(6, 26914), (16, 26980), (33, 27178), (Start: 50 @27241 has 129 MA's), (Start: 60 @27271 has 4 MA's), (64, 27277), (Start: 66 @27283 has 1 MA's), (72, 27295), (88, 27343), (92, 27361), (103, 27388), (115, 27442), (117, 27451), (129, 27505), (144, 27583), (153, 27616), (169, 27673),

Gene: DarthP_31 Start: 27643, Stop: 28107, Start Num: 49

Candidate Starts for DarthP_31:

(Start: 43 @27628 has 16 MA's), (Start: 49 @27643 has 11 MA's), (Start: 60 @27673 has 4 MA's), (62, 27676), (72, 27697), (92, 27763), (103, 27790), (115, 27844), (129, 27907), (144, 27985), (148, 27997),

Gene: Dartin_32 Start: 26622, Stop: 27086, Start Num: 50

Candidate Starts for Dartin_32:

(28, 26496), (30, 26523), (Start: 50 @26622 has 129 MA's), (Start: 60 @26652 has 4 MA's), (64, 26658), (Start: 66 @26664 has 1 MA's), (72, 26676), (88, 26724), (91, 26736), (103, 26769), (104, 26772), (115, 26823), (129, 26886), (132, 26907), (136, 26922), (141, 26952), (144, 26964), (148, 26976),

Gene: DatBoi_34 Start: 31309, Stop: 31719, Start Num: 77

Candidate Starts for DatBoi_34:

(Start: 77 @31309 has 8 MA's), (103, 31399), (124, 31486), (139, 31570), (148, 31609),

Gene: Deby_32 Start: 27311, Stop: 27751, Start Num: 50

Candidate Starts for Deby_32:

(33, 27248), (Start: 50 @27311 has 129 MA's), (Start: 60 @27341 has 4 MA's), (64, 27347), (Start: 66 @27353 has 1 MA's), (72, 27365), (88, 27413), (92, 27431), (103, 27458), (115, 27512), (117, 27521), (129, 27575), (132, 27596), (144, 27653), (153, 27686), (169, 27743),

Gene: DeepSoil15_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for DeepSoil15_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Devera_32 Start: 27351, Stop: 27791, Start Num: 50

Candidate Starts for Devera_32:

(Start: 50 @27351 has 129 MA's), (Start: 60 @27381 has 4 MA's), (64, 27387), (Start: 66 @27393 has 1 MA's), (72, 27405), (88, 27453), (92, 27471), (103, 27498), (111, 27537), (115, 27552), (117, 27561), (129, 27615), (144, 27693), (169, 27783),

Gene: Dewey_33 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Dewey_33:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: DismalFunk_30 Start: 26028, Stop: 26414, Start Num: 80

Candidate Starts for DismalFunk_30:

(Start: 80 @26028 has 11 MA's), (Start: 81 @26031 has 45 MA's), (101, 26103), (103, 26109), (106, 26118), (107, 26124), (110, 26145), (113, 26154), (115, 26163), (117, 26172), (130, 26235), (134, 26256), (138, 26274), (139, 26277),

Gene: DismalStressor_30 Start: 26028, Stop: 26414, Start Num: 80

Candidate Starts for DismalStressor_30:

(Start: 80 @26028 has 11 MA's), (Start: 81 @26031 has 45 MA's), (101, 26103), (103, 26109), (106, 26118), (107, 26124), (110, 26145), (113, 26154), (115, 26163), (117, 26172), (130, 26235), (134, 26256), (138, 26274), (139, 26277),

Gene: Dole_32 Start: 27353, Stop: 27793, Start Num: 50

Candidate Starts for Dole_32:

(Start: 50 @27353 has 129 MA's), (Start: 60 @27383 has 4 MA's), (64, 27389), (Start: 66 @27395 has 1 MA's), (72, 27407), (88, 27455), (92, 27473), (103, 27500), (111, 27539), (115, 27554), (117, 27563), (129, 27617), (144, 27695), (169, 27785),

Gene: DoubleChamp_31 Start: 27991, Stop: 28398, Start Num: 60

Candidate Starts for DoubleChamp_31:

(3, 27433), (4, 27547), (Start: 43 @27946 has 16 MA's), (Start: 45 @27949 has 4 MA's), (Start: 60 @27991 has 4 MA's), (Start: 66 @28003 has 1 MA's), (72, 28015), (88, 28063), (91, 28075), (92, 28081), (100, 28099), (103, 28108), (115, 28162), (117, 28171), (120, 28186), (129, 28225), (130, 28234), (132, 28246), (141, 28291), (143, 28300), (144, 28303), (150, 28324), (153, 28336),

Gene: Doughnut_31 Start: 26109, Stop: 26495, Start Num: 80

Candidate Starts for Doughnut_31:

(Start: 80 @26109 has 11 MA's), (Start: 81 @26112 has 45 MA's), (103, 26190), (106, 26199), (107, 26205), (110, 26226), (113, 26235), (114, 26241), (115, 26244), (117, 26253), (130, 26316), (134, 26337), (138, 26355), (139, 26358),

Gene: DrHayes_32 Start: 27266, Stop: 27706, Start Num: 50

Candidate Starts for DrHayes_32:

(Start: 43 @27251 has 16 MA's), (Start: 50 @27266 has 129 MA's), (Start: 60 @27296 has 4 MA's), (64, 27302), (Start: 66 @27308 has 1 MA's), (72, 27320), (88, 27368), (92, 27386), (103, 27413), (115, 27467), (117, 27476), (129, 27530), (144, 27608), (153, 27641), (169, 27698), (170, 27701),

Gene: Durfee_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Durfee_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Dusty_50 Start: 32639, Stop: 33046, Start Num: 81

Candidate Starts for Dusty_50:

(Start: 81 @32639 has 45 MA's), (96, 32702), (98, 32705), (124, 32807), (144, 32918), (154, 32960), (173, 33035),

Gene: Edugator_31 Start: 27961, Stop: 28368, Start Num: 60

Candidate Starts for Edugator_31:

(Start: 43 @27916 has 16 MA's), (Start: 45 @27919 has 4 MA's), (Start: 60 @27961 has 4 MA's), (Start: 66 @27973 has 1 MA's), (72, 27985), (88, 28033), (91, 28045), (92, 28051), (100, 28069), (103, 28078), (117, 28141), (120, 28156), (129, 28195), (130, 28204), (132, 28216), (143, 28270), (144, 28273), (150, 28294),

Gene: Efra2_32 Start: 26582, Stop: 27031, Start Num: 50

Candidate Starts for Efra2_32:

(Start: 50 @26582 has 129 MA's), (Start: 60 @26612 has 4 MA's), (64, 26618), (Start: 66 @26624 has 1 MA's), (72, 26636), (88, 26684), (91, 26696), (103, 26729), (104, 26732), (115, 26783), (117, 26792), (132, 26867), (136, 26882), (144, 26924), (169, 27023),

Gene: Ein37_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Ein37_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Ekdilam_29 Start: 27401, Stop: 27862, Start Num: 49

Candidate Starts for Ekdilam_29:

(Start: 49 @27401 has 11 MA's), (Start: 60 @27431 has 4 MA's), (62, 27434), (72, 27455), (92, 27521), (103, 27548), (111, 27587), (115, 27602), (129, 27665), (144, 27743), (148, 27755),

Gene: Ellie_29 Start: 27400, Stop: 27864, Start Num: 49

Candidate Starts for Ellie_29:

(28, 27277), (Start: 49 @27400 has 11 MA's), (Start: 60 @27430 has 4 MA's), (62, 27433), (67, 27445), (76, 27460), (91, 27514), (92, 27520), (103, 27547), (115, 27601), (129, 27664), (144, 27742),

Gene: Emerson_32 Start: 27337, Stop: 27777, Start Num: 50

Candidate Starts for Emerson_32:

(19, 27100), (33, 27274), (Start: 50 @27337 has 129 MA's), (Start: 60 @27367 has 4 MA's), (64, 27373), (Start: 66 @27379 has 1 MA's), (72, 27391), (88, 27439), (92, 27457), (103, 27484), (115, 27538), (117, 27547), (129, 27601), (132, 27622), (144, 27679), (153, 27712), (169, 27769),

Gene: Engineer_53 Start: 33314, Stop: 33721, Start Num: 81

Candidate Starts for Engineer_53:

(Start: 81 @33314 has 45 MA's), (96, 33377), (98, 33380), (124, 33482), (144, 33593), (154, 33635), (173, 33710),

Gene: Enkosi_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for Enkosi_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: Eponine_35 Start: 29224, Stop: 29622, Start Num: 61

Candidate Starts for Eponine_35:

(31, 29104), (Start: 61 @29224 has 23 MA's), (72, 29245), (79, 29254), (104, 29341), (108, 29356), (120, 29416), (122, 29422), (126, 29440), (130, 29464), (134, 29485), (137, 29497), (139, 29506), (141, 29521), (147, 29542), (161, 29602),

Gene: Evanesce_33 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Evanesce_33:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Eviarto_22 Start: 21074, Stop: 21430, Start Num: 81

Candidate Starts for Eviarto_22:

(Start: 81 @21074 has 45 MA's), (94, 21134), (98, 21143), (117, 21218), (130, 21281), (132, 21293), (145, 21353),

Gene: Faiyaz_33 Start: 30335, Stop: 30691, Start Num: 81

Candidate Starts for Faiyaz_33:

(32, 30185), (Start: 81 @30335 has 45 MA's), (88, 30368), (104, 30416), (107, 30428), (111, 30452), (115, 30467), (119, 30488), (127, 30518), (130, 30539), (131, 30542), (144, 30608), (147, 30617), (150, 30629),

Gene: Farewell_28 Start: 26686, Stop: 27078, Start Num: 77

Candidate Starts for Farewell_28:

(Start: 77 @26686 has 8 MA's), (96, 26752), (98, 26755), (116, 26818), (130, 26887), (137, 26920), (139, 26929), (153, 26989), (155, 27004), (166, 27034), (172, 27070),

Gene: Fefferhead_31 Start: 27600, Stop: 28064, Start Num: 49

Candidate Starts for Fefferhead_31:

(28, 27477), (Start: 49 @27600 has 11 MA's), (Start: 60 @27630 has 4 MA's), (62, 27633), (67, 27645), (76, 27660), (91, 27714), (92, 27720), (103, 27747), (115, 27801), (129, 27864), (144, 27942),

Gene: Feyre_31 Start: 27833, Stop: 28285, Start Num: 43

Candidate Starts for Feyre_31:

(Start: 43 @27833 has 16 MA's), (Start: 60 @27878 has 4 MA's), (Start: 66 @27890 has 1 MA's), (72, 27902), (88, 27950), (91, 27962), (92, 27968), (103, 27995), (115, 28049), (117, 28058), (120, 28073), (129, 28112), (132, 28133), (143, 28187), (144, 28190), (153, 28223),

Gene: Findley_30 Start: 26020, Stop: 26406, Start Num: 80

Candidate Starts for Findley_30:

(Start: 80 @26020 has 11 MA's), (Start: 81 @26023 has 45 MA's), (84, 26032), (101, 26095), (103, 26101), (106, 26110), (107, 26116), (110, 26137), (113, 26146), (115, 26155), (117, 26164), (130, 26227), (134, 26248), (138, 26266), (139, 26269),

Gene: Fionnbharth_33 Start: 28459, Stop: 28857, Start Num: 61

Candidate Starts for Fionnbharth_33:

(Start: 61 @28459 has 23 MA's), (72, 28480), (79, 28489), (104, 28576), (108, 28591), (122, 28657), (126, 28675), (130, 28699), (134, 28720), (137, 28732), (139, 28741), (141, 28756), (147, 28777),

Gene: Forge_33 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Forge_33:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Fowlmouth_30 Start: 29190, Stop: 29609, Start Num: 68

Candidate Starts for Fowlmouth_30:

(46, 29136), (Start: 68 @29190 has 3 MA's), (Start: 75 @29205 has 5 MA's), (85, 29229), (90, 29262), (159, 29559), (163, 29571), (167, 29589),

Gene: Frickyeah_23 Start: 19960, Stop: 20334, Start Num: 81

Candidate Starts for Frickyeah_23:

(Start: 78 @19954 has 17 MA's), (Start: 81 @19960 has 45 MA's), (93, 20017), (94, 20020), (98, 20029), (117, 20104), (122, 20125), (130, 20167), (131, 20170), (153, 20269),

Gene: GMA2_39 Start: 41812, Stop: 42174, Start Num: 81

Candidate Starts for GMA2_39:

(Start: 81 @41812 has 45 MA's), (83, 41818), (91, 41857), (96, 41875), (111, 41929), (132, 42034), (146, 42097),

Gene: Gancho_33 Start: 29319, Stop: 29729, Start Num: 55

Candidate Starts for Gancho_33:

(Start: 55 @29319 has 30 MA's), (91, 29421), (109, 29487), (113, 29499), (116, 29511), (120, 29532), (138, 29619), (159, 29712),

Gene: Ganymede_33 Start: 27357, Stop: 27806, Start Num: 50

Candidate Starts for Ganymede_33:

(19, 27120), (33, 27294), (Start: 50 @27357 has 129 MA's), (Start: 60 @27387 has 4 MA's), (64, 27393), (Start: 66 @27399 has 1 MA's), (72, 27411), (88, 27459), (92, 27477), (103, 27504), (115, 27558), (117, 27567), (129, 27621), (132, 27642), (144, 27699),

Gene: Geeche_50 Start: 32730, Stop: 33137, Start Num: 81

Candidate Starts for Geeche_50:

(Start: 81 @32730 has 45 MA's), (96, 32793), (98, 32796), (124, 32898), (144, 33009), (154, 33051), (173, 33126),

Gene: Gengar_31 Start: 27943, Stop: 28395, Start Num: 43

Candidate Starts for Gengar_31:

(Start: 43 @27943 has 16 MA's), (Start: 60 @27988 has 4 MA's), (Start: 66 @28000 has 1 MA's), (72, 28012), (88, 28060), (91, 28072), (92, 28078), (103, 28105), (115, 28159), (117, 28168), (120, 28183), (129, 28222), (132, 28243), (143, 28297), (144, 28300), (153, 28333),

Gene: Geraldini_32 Start: 27354, Stop: 27794, Start Num: 50

Candidate Starts for Geraldini_32:

(19, 27117), (33, 27291), (Start: 50 @27354 has 129 MA's), (Start: 60 @27384 has 4 MA's), (64, 27390), (Start: 66 @27396 has 1 MA's), (72, 27408), (88, 27456), (92, 27474), (103, 27501), (115, 27555), (117, 27564), (129, 27618), (132, 27639), (144, 27696), (153, 27729), (169, 27786),

Gene: Getalong_25 Start: 20997, Stop: 21371, Start Num: 81

Candidate Starts for Getalong_25:

(Start: 78 @20991 has 17 MA's), (Start: 81 @20997 has 45 MA's), (93, 21054), (94, 21057), (110, 21114), (122, 21162), (130, 21204), (131, 21207), (153, 21306),

Gene: Gibbles_29 Start: 35291, Stop: 35674, Start Num: 75

Candidate Starts for Gibbles_29:

(Start: 75 @35291 has 5 MA's), (104, 35387), (131, 35513), (134, 35531), (139, 35552),

Gene: Giles_33 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Giles_33:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Gravaillia_33 Start: 29325, Stop: 29735, Start Num: 55

Candidate Starts for Gravaillia_33:

(Start: 55 @29325 has 30 MA's), (91, 29427), (109, 29493), (113, 29505), (116, 29517), (120, 29538), (138, 29625), (159, 29718),

Gene: Guanica15_32 Start: 26599, Stop: 27048, Start Num: 50

Candidate Starts for Guanica15_32:

(Start: 50 @26599 has 129 MA's), (Start: 60 @26629 has 4 MA's), (64, 26635), (Start: 66 @26641 has 1 MA's), (72, 26653), (88, 26701), (91, 26713), (103, 26746), (104, 26749), (115, 26800), (117, 26809), (129, 26863), (132, 26884), (136, 26899), (144, 26941), (169, 27040),

Gene: Guillsminger_31 Start: 27915, Stop: 28367, Start Num: 43

Candidate Starts for Guillsminger_31:

(Start: 43 @27915 has 16 MA's), (Start: 60 @27960 has 4 MA's), (Start: 66 @27972 has 1 MA's), (72, 27984), (88, 28032), (91, 28044), (92, 28050), (103, 28077), (115, 28131), (117, 28140), (120, 28155), (129, 28194), (132, 28215), (143, 28269), (144, 28272), (153, 28305),

Gene: HH92_33 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for HH92_33:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Hadrien_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Hadrien_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Hail_33 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Hail_33:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Hammy_31 Start: 27634, Stop: 28098, Start Num: 49

Candidate Starts for Hammy_31:

(Start: 43 @27619 has 16 MA's), (Start: 49 @27634 has 11 MA's), (Start: 60 @27664 has 4 MA's), (62, 27667), (72, 27688), (92, 27754), (103, 27781), (115, 27835), (129, 27898), (144, 27976), (148, 27988),

Gene: HedwigODU_32 Start: 27346, Stop: 27786, Start Num: 50

Candidate Starts for HedwigODU_32:

(19, 27109), (33, 27283), (Start: 50 @27346 has 129 MA's), (Start: 60 @27376 has 4 MA's), (64, 27382), (Start: 66 @27388 has 1 MA's), (72, 27400), (88, 27448), (92, 27466), (103, 27493), (115, 27547), (128, 27607), (129, 27610), (132, 27631), (144, 27688), (153, 27721), (169, 27778),

Gene: Heftyboy_31 Start: 28061, Stop: 28513, Start Num: 43

Candidate Starts for Heftyboy_31:

(Start: 43 @28061 has 16 MA's), (Start: 60 @28106 has 4 MA's), (Start: 66 @28118 has 1 MA's), (72, 28130), (88, 28178), (91, 28190), (92, 28196), (103, 28223), (104, 28226), (115, 28277), (117, 28286), (120, 28301), (129, 28340), (132, 28361), (143, 28415), (144, 28418), (153, 28451),

Gene: Herod_22 Start: 21074, Stop: 21430, Start Num: 81

Candidate Starts for Herod_22:

(Start: 81 @21074 has 45 MA's), (94, 21134), (98, 21143), (117, 21218), (130, 21281), (132, 21293), (145, 21353),

Gene: Hilltopfarm_33 Start: 30365, Stop: 30721, Start Num: 81

Candidate Starts for Hilltopfarm_33:

(32, 30215), (Start: 81 @30365 has 45 MA's), (88, 30398), (104, 30446), (107, 30458), (111, 30482), (115, 30497), (119, 30518), (127, 30548), (130, 30569), (131, 30572), (144, 30638), (147, 30647), (150, 30659),

Gene: Holliday_24 Start: 20296, Stop: 20676, Start Num: 78

Candidate Starts for Holliday_24:

(4, 19807), (12, 19918), (14, 19936), (Start: 78 @20296 has 17 MA's), (Start: 81 @20302 has 45 MA's), (93, 20359), (94, 20362), (98, 20371), (117, 20446), (130, 20509), (131, 20512), (132, 20521), (145, 20581), (146, 20584),

Gene: Homura_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Homura_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Horus_24 Start: 20213, Stop: 20593, Start Num: 78

Candidate Starts for Horus_24:

(Start: 78 @20213 has 17 MA's), (Start: 81 @20219 has 45 MA's), (93, 20276), (94, 20279), (117, 20363), (122, 20384), (130, 20426), (131, 20429), (153, 20528),

Gene: Hugley_22 Start: 21074, Stop: 21430, Start Num: 81

Candidate Starts for Hugley_22:

(Start: 81 @21074 has 45 MA's), (94, 21134), (98, 21143), (117, 21218), (130, 21281), (132, 21293), (145, 21353),

Gene: Hurricane_33 Start: 28195, Stop: 28641, Start Num: 50

Candidate Starts for Hurricane_33:

(41, 28162), (Start: 50 @28195 has 129 MA's), (Start: 60 @28225 has 4 MA's), (92, 28315), (103, 28342), (104, 28345), (111, 28381), (115, 28396), (129, 28459), (134, 28489), (144, 28537),

Gene: Hyperbowlee_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Hyperbowlee_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: IdentityCrisis_27 Start: 23066, Stop: 23467, Start Num: 71

Candidate Starts for IdentityCrisis_27:

(Start: 71 @23066 has 4 MA's), (96, 23141), (98, 23144), (116, 23207), (130, 23276), (137, 23309), (139, 23318), (153, 23378), (155, 23393), (166, 23423), (172, 23459),

Gene: Illumine_32 Start: 27353, Stop: 27793, Start Num: 50

Candidate Starts for Illumine_32:

(Start: 50 @27353 has 129 MA's), (Start: 60 @27383 has 4 MA's), (64, 27389), (Start: 66 @27395 has 1 MA's), (72, 27407), (88, 27455), (92, 27473), (103, 27500), (111, 27539), (115, 27554), (117, 27563), (129, 27617), (144, 27695), (169, 27785),

Gene: Inky_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Inky_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: InvictusManeo_31 Start: 27989, Stop: 28441, Start Num: 43

Candidate Starts for InvictusManeo_31:

(3, 27476), (4, 27590), (Start: 43 @27989 has 16 MA's), (Start: 45 @27992 has 4 MA's), (Start: 60 @28034 has 4 MA's), (Start: 66 @28046 has 1 MA's), (72, 28058), (88, 28106), (91, 28118), (92, 28124), (100, 28142), (103, 28151), (115, 28205), (117, 28214), (120, 28229), (129, 28268), (130, 28277), (132, 28289), (141, 28334), (143, 28343), (144, 28346), (150, 28367), (153, 28379),

Gene: JAWS_32 Start: 27331, Stop: 27771, Start Num: 50

Candidate Starts for JAWS_32:

(18, 27082), (33, 27268), (Start: 50 @27331 has 129 MA's), (Start: 60 @27361 has 4 MA's), (64, 27367), (Start: 66 @27373 has 1 MA's), (72, 27385), (88, 27433), (92, 27451), (103, 27478), (115, 27532), (117, 27541), (128, 27592), (129, 27595), (144, 27673), (153, 27706), (169, 27763),

Gene: JF1_33 Start: 28458, Stop: 28856, Start Num: 61

Candidate Starts for JF1_33:

(Start: 61 @28458 has 23 MA's), (72, 28479), (79, 28488), (104, 28575), (108, 28590), (111, 28611), (122, 28656), (126, 28674), (130, 28698), (134, 28719), (137, 28731), (139, 28740), (141, 28755),

(147, 28776),

Gene: Jarvi_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Jarvi_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Jayhawk_32 Start: 27344, Stop: 27784, Start Num: 50

Candidate Starts for Jayhawk_32:

(19, 27107), (33, 27281), (Start: 50 @27344 has 129 MA's), (Start: 60 @27374 has 4 MA's), (64, 27380), (Start: 66 @27386 has 1 MA's), (72, 27398), (88, 27446), (92, 27464), (103, 27491), (115, 27545), (128, 27605), (129, 27608), (132, 27629), (144, 27686), (153, 27719), (169, 27776),

Gene: Jeckyll_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Jeckyll_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Joy99_32 Start: 27306, Stop: 27746, Start Num: 50

Candidate Starts for Joy99_32:

(33, 27243), (Start: 50 @27306 has 129 MA's), (Start: 60 @27336 has 4 MA's), (64, 27342), (Start: 66 @27348 has 1 MA's), (72, 27360), (88, 27408), (92, 27426), (103, 27453), (115, 27507), (117, 27516), (129, 27570), (132, 27591), (144, 27648), (153, 27681), (169, 27738),

Gene: Juliette_35 Start: 28617, Stop: 29015, Start Num: 61

Candidate Starts for Juliette_35:

(Start: 61 @28617 has 23 MA's), (72, 28638), (79, 28647), (104, 28734), (108, 28749), (120, 28809), (122, 28815), (126, 28833), (130, 28857), (134, 28878), (137, 28890), (139, 28899), (141, 28914), (161, 28995),

Gene: Kamaru_24 Start: 20302, Stop: 20676, Start Num: 81

Candidate Starts for Kamaru_24:

(4, 19807), (12, 19918), (14, 19936), (Start: 78 @20296 has 17 MA's), (Start: 81 @20302 has 45 MA's), (93, 20359), (94, 20362), (98, 20371), (117, 20446), (130, 20509), (131, 20512), (132, 20521), (145, 20581), (146, 20584),

Gene: Kampe_30 Start: 35152, Stop: 35535, Start Num: 75

Candidate Starts for Kampe_30:

(Start: 75 @35152 has 5 MA's), (104, 35248), (131, 35374), (134, 35392), (139, 35413),

Gene: Kenna_23 Start: 20192, Stop: 20569, Start Num: 78

Candidate Starts for Kenna_23:

(Start: 78 @20192 has 17 MA's), (Start: 81 @20198 has 45 MA's), (93, 20255), (94, 20258), (98, 20267), (117, 20342), (122, 20363), (130, 20405), (131, 20408), (132, 20417), (145, 20477), (146, 20480),

Gene: Keshu_33 Start: 28183, Stop: 28629, Start Num: 50

Candidate Starts for Keshu_33:

(Start: 50 @28183 has 129 MA's), (Start: 60 @28213 has 4 MA's), (74, 28240), (92, 28303), (103, 28330), (104, 28333), (111, 28369), (115, 28384), (117, 28393), (129, 28447), (134, 28477), (144, 28525),

Gene: KiSi_31 Start: 26374, Stop: 26829, Start Num: 50

Candidate Starts for KiSi_31:

(Start: 50 @26374 has 129 MA's), (Start: 60 @26404 has 4 MA's), (62, 26407), (74, 26431), (92, 26494), (103, 26521), (104, 26524), (115, 26575), (129, 26638), (144, 26716), (148, 26728), (149, 26734),

Gene: Kiko_24 Start: 20229, Stop: 20624, Start Num: 70

Candidate Starts for Kiko_24:

(1, 19326), (2, 19548), (5, 19797), (8, 19827), (37, 20112), (Start: 70 @20229 has 1 MA's), (Start: 81 @20247 has 45 MA's), (98, 20316), (105, 20334), (108, 20346), (110, 20364), (117, 20391), (130, 20454), (131, 20457), (145, 20526),

Gene: Kinbote_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Kinbote_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Konstantine_40 Start: 33596, Stop: 34045, Start Num: 59

Candidate Starts for Konstantine_40:

(Start: 55 @33584 has 30 MA's), (Start: 59 @33596 has 1 MA's), (69, 33620), (82, 33647), (95, 33704), (96, 33707), (100, 33713), (102, 33719), (105, 33728), (107, 33737), (120, 33800), (121, 33803), (128, 33839), (135, 33875), (139, 33893), (151, 33944), (158, 33980), (170, 34025),

Gene: Kratio_30 Start: 27620, Stop: 28072, Start Num: 43

Candidate Starts for Kratio_30:

(3, 27107), (4, 27221), (Start: 43 @27620 has 16 MA's), (Start: 45 @27623 has 4 MA's), (Start: 60 @27665 has 4 MA's), (Start: 66 @27677 has 1 MA's), (72, 27689), (88, 27737), (91, 27749), (92, 27755), (100, 27773), (103, 27782), (115, 27836), (117, 27845), (120, 27860), (129, 27899), (130, 27908), (132, 27920), (143, 27974), (144, 27977), (150, 27998), (153, 28010),

Gene: Kraw_33 Start: 28383, Stop: 28781, Start Num: 61

Candidate Starts for Kraw_33:

(Start: 61 @28383 has 23 MA's), (72, 28404), (79, 28413), (104, 28500), (108, 28515), (122, 28581), (126, 28599), (130, 28623), (134, 28644), (137, 28656), (139, 28665), (141, 28680), (147, 28701), (149, 28710),

Gene: Krueger_32 Start: 26494, Stop: 26958, Start Num: 50

Candidate Starts for Krueger_32:

(Start: 50 @26494 has 129 MA's), (Start: 57 @26515 has 4 MA's), (Start: 60 @26524 has 4 MA's), (62, 26527), (91, 26608), (92, 26614), (103, 26641), (115, 26695), (129, 26758), (132, 26779), (144, 26836), (148, 26848),

Gene: Kuwabara_23 Start: 19624, Stop: 19995, Start Num: 81

Candidate Starts for Kuwabara_23:

(Start: 78 @19618 has 17 MA's), (Start: 81 @19624 has 45 MA's), (93, 19681), (94, 19684), (117, 19768), (122, 19789), (130, 19831), (131, 19834), (132, 19843), (145, 19903), (146, 19906),

Gene: Larva_32 Start: 27784, Stop: 28236, Start Num: 43

Candidate Starts for Larva_32:

(Start: 43 @27784 has 16 MA's), (Start: 45 @27787 has 4 MA's), (Start: 60 @27829 has 4 MA's), (Start: 66 @27841 has 1 MA's), (72, 27853), (88, 27901), (91, 27913), (92, 27919), (100, 27937), (103, 27946), (117, 28009), (120, 28024), (129, 28063), (130, 28072), (132, 28084), (143, 28138), (144,

28141), (150, 28162), (153, 28174),

Gene: LastHope_32 Start: 26463, Stop: 26915, Start Num: 50

Candidate Starts for LastHope_32:

(15, 26205), (28, 26340), (33, 26400), (Start: 50 @26463 has 129 MA's), (Start: 60 @26493 has 4 MA's), (64, 26499), (Start: 66 @26505 has 1 MA's), (72, 26517), (88, 26565), (91, 26577), (103, 26610), (104, 26613), (115, 26664), (117, 26673), (129, 26727), (130, 26736), (132, 26748), (144, 26805),

Gene: LaterM_32 Start: 27270, Stop: 27710, Start Num: 50

Candidate Starts for LaterM_32:

(19, 27033), (Start: 50 @27270 has 129 MA's), (Start: 60 @27300 has 4 MA's), (64, 27306), (Start: 66 @27312 has 1 MA's), (72, 27324), (88, 27372), (92, 27390), (103, 27417), (111, 27456), (115, 27471), (117, 27480), (129, 27534), (144, 27612), (169, 27702),

Gene: Lavahound_30 Start: 27292, Stop: 27756, Start Num: 49

Candidate Starts for Lavahound_30:

(28, 27169), (Start: 49 @27292 has 11 MA's), (Start: 60 @27322 has 4 MA's), (62, 27325), (67, 27337), (76, 27352), (89, 27400), (91, 27406), (92, 27412), (103, 27439), (115, 27493), (129, 27556), (144, 27634),

Gene: LeMond_31 Start: 26445, Stop: 26900, Start Num: 50

Candidate Starts for LeMond_31:

(Start: 50 @26445 has 129 MA's), (Start: 60 @26475 has 4 MA's), (62, 26478), (74, 26502), (92, 26565), (103, 26592), (104, 26595), (115, 26646), (129, 26709), (144, 26787), (149, 26805),

Gene: Lea83_33 Start: 28253, Stop: 28699, Start Num: 50

Candidate Starts for Lea83_33:

(41, 28220), (Start: 50 @28253 has 129 MA's), (Start: 60 @28283 has 4 MA's), (92, 28373), (103, 28400), (104, 28403), (111, 28439), (115, 28454), (129, 28517), (134, 28547), (144, 28595),

Gene: Lebo14_33 Start: 28472, Stop: 28870, Start Num: 61

Candidate Starts for Lebo14_33:

(36, 28376), (Start: 61 @28472 has 23 MA's), (72, 28493), (79, 28502), (104, 28589), (108, 28604), (120, 28664), (122, 28670), (126, 28688), (130, 28712), (134, 28733), (137, 28745), (139, 28754), (141, 28769), (147, 28790), (161, 28850),

Gene: Leroy_24 Start: 20214, Stop: 20594, Start Num: 78

Candidate Starts for Leroy_24:

(Start: 78 @20214 has 17 MA's), (Start: 81 @20220 has 45 MA's), (93, 20277), (94, 20280), (117, 20364), (122, 20385), (130, 20427), (131, 20430), (153, 20529),

Gene: Leston_31 Start: 28090, Stop: 28497, Start Num: 60

Candidate Starts for Leston_31:

(Start: 43 @28045 has 16 MA's), (Start: 60 @28090 has 4 MA's), (Start: 66 @28102 has 1 MA's), (72, 28114), (88, 28162), (91, 28174), (92, 28180), (103, 28207), (115, 28261), (117, 28270), (120, 28285), (129, 28324), (132, 28345), (143, 28399), (144, 28402), (153, 28435),

Gene: LilDirt_30 Start: 27746, Stop: 28198, Start Num: 43

Candidate Starts for LilDirt_30:

(3, 27233), (4, 27347), (Start: 43 @27746 has 16 MA's), (Start: 45 @27749 has 4 MA's), (Start: 60 @27791 has 4 MA's), (Start: 66 @27803 has 1 MA's), (72, 27815), (88, 27863), (91, 27875), (92, 27881), (100, 27899), (103, 27908), (115, 27962), (117, 27971), (120, 27986), (129, 28025), (130,

28034), (132, 28046), (141, 28091), (143, 28100), (144, 28103), (150, 28124), (153, 28136),

Gene: LilHazelNut_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for LilHazelNut_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: LilPharaoh_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for LilPharaoh_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: LindNT_32 Start: 27310, Stop: 27750, Start Num: 50

Candidate Starts for LindNT_32:

(19, 27073), (33, 27247), (Start: 50 @27310 has 129 MA's), (Start: 60 @27340 has 4 MA's), (64, 27346), (Start: 66 @27352 has 1 MA's), (72, 27364), (88, 27412), (92, 27430), (103, 27457), (115, 27511), (117, 27520), (129, 27574), (144, 27652), (153, 27685), (169, 27742),

Gene: LitninMcQueen_23 Start: 19948, Stop: 20325, Start Num: 78

Candidate Starts for LitninMcQueen_23:

(Start: 78 @19948 has 17 MA's), (Start: 81 @19954 has 45 MA's), (93, 20011), (94, 20014), (117, 20098), (122, 20119), (130, 20161), (131, 20164), (153, 20263),

Gene: Llorens_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Llorens_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: LonelyBoi_23 Start: 20872, Stop: 21258, Start Num: 78

Candidate Starts for LonelyBoi_23:

(Start: 78 @20872 has 17 MA's), (Start: 81 @20878 has 45 MA's), (94, 20938), (117, 21022), (137, 21118), (145, 21157), (164, 21232),

Gene: Lozinak_52 Start: 33369, Stop: 33776, Start Num: 81

Candidate Starts for Lozinak_52:

(Start: 81 @33369 has 45 MA's), (96, 33432), (98, 33435), (124, 33537), (144, 33648), (154, 33690), (173, 33765),

Gene: Luke_34 Start: 29551, Stop: 29961, Start Num: 55

Candidate Starts for Luke_34:

(Start: 55 @29551 has 30 MA's), (91, 29653), (109, 29719), (113, 29731), (116, 29743), (120, 29764), (138, 29851), (159, 29944),

Gene: Luna22_33 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Luna22_33:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Lunahalos_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Lunahalos_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Lutum_24 Start: 20192, Stop: 20569, Start Num: 78

Candidate Starts for Lutum_24:

(Start: 78 @20192 has 17 MA's), (Start: 81 @20198 has 45 MA's), (93, 20255), (94, 20258), (98, 20267), (117, 20342), (122, 20363), (130, 20405), (131, 20408), (132, 20417), (145, 20477), (146, 20480),

Gene: MacKat_32 Start: 27354, Stop: 27794, Start Num: 50

Candidate Starts for MacKat_32:

(33, 27291), (Start: 50 @27354 has 129 MA's), (Start: 60 @27384 has 4 MA's), (64, 27390), (Start: 66 @27396 has 1 MA's), (72, 27408), (88, 27456), (92, 27474), (103, 27501), (115, 27555), (117, 27564), (129, 27618), (132, 27639), (144, 27696), (153, 27729), (169, 27786),

Gene: MacnCheese_33 Start: 28230, Stop: 28682, Start Num: 50

Candidate Starts for MacnCheese_33:

(41, 28197), (Start: 50 @28230 has 129 MA's), (Start: 57 @28251 has 4 MA's), (Start: 60 @28260 has 4 MA's), (92, 28350), (103, 28377), (104, 28380), (111, 28416), (115, 28431), (129, 28494), (132, 28515), (144, 28572), (148, 28584), (153, 28605), (165, 28653),

Gene: Madavieve_22 Start: 21354, Stop: 21710, Start Num: 81

Candidate Starts for Madavieve_22:

(Start: 81 @21354 has 45 MA's), (94, 21414), (98, 21423), (117, 21498), (130, 21561), (132, 21573), (145, 21633),

Gene: Madeline_22 Start: 21372, Stop: 21728, Start Num: 81

Candidate Starts for Madeline_22:

(23, 21066), (26, 21159), (29, 21174), (39, 21270), (Start: 81 @21372 has 45 MA's), (94, 21432), (98, 21441), (117, 21516), (130, 21579), (132, 21591), (145, 21651),

Gene: MalagasyRose_32 Start: 26704, Stop: 27135, Start Num: 52

Candidate Starts for MalagasyRose_32:

(Start: 52 @26704 has 1 MA's), (56, 26713), (Start: 61 @26725 has 23 MA's), (63, 26728), (65, 26734), (72, 26746), (76, 26752), (84, 26770), (91, 26806), (92, 26812), (100, 26830), (103, 26839), (104, 26842), (113, 26884), (115, 26893), (117, 26902), (120, 26917), (129, 26956), (130, 26965), (132, 26977), (144, 27034), (150, 27055), (168, 27121),

Gene: Malibo_24 Start: 20256, Stop: 20633, Start Num: 81

Candidate Starts for Malibo_24:

(Start: 81 @20256 has 45 MA's), (94, 20316), (98, 20325), (117, 20400), (132, 20475), (145, 20535),

Gene: Malisha_25 Start: 22077, Stop: 22454, Start Num: 78

Candidate Starts for Malisha_25:

(4, 21588), (12, 21699), (14, 21717), (Start: 78 @22077 has 17 MA's), (Start: 81 @22083 has 45 MA's), (93, 22140), (98, 22152), (117, 22227), (130, 22290), (131, 22293), (136, 22317), (145, 22362), (146, 22365),

Gene: Malthus_34 Start: 28383, Stop: 28781, Start Num: 61

Candidate Starts for Malthus_34:

(Start: 61 @28383 has 23 MA's), (72, 28404), (79, 28413), (104, 28500), (108, 28515), (122, 28581), (126, 28599), (130, 28623), (134, 28644), (137, 28656), (139, 28665), (141, 28680), (147, 28701),

(149, 28710),

Gene: Marcoliusprime_30 Start: 26028, Stop: 26414, Start Num: 80

Candidate Starts for Marcoliusprime_30:

(Start: 80 @26028 has 11 MA's), (Start: 81 @26031 has 45 MA's), (101, 26103), (103, 26109), (106, 26118), (107, 26124), (110, 26145), (113, 26154), (115, 26163), (117, 26172), (130, 26235), (134, 26256), (138, 26274), (139, 26277),

Gene: MarkPhew_32 Start: 26343, Stop: 26798, Start Num: 50

Candidate Starts for MarkPhew_32:

(33, 26280), (38, 26298), (Start: 50 @26343 has 129 MA's), (Start: 60 @26373 has 4 MA's), (62, 26376), (74, 26400), (93, 26466), (103, 26490), (115, 26544), (131, 26619), (144, 26685),

Gene: Marshawn_33 Start: 27023, Stop: 27481, Start Num: 50

Candidate Starts for Marshawn_33:

(28, 26900), (33, 26960), (Start: 50 @27023 has 129 MA's), (Start: 60 @27053 has 4 MA's), (92, 27143), (103, 27170), (115, 27224), (129, 27287), (130, 27296), (132, 27308), (144, 27365), (148, 27377),

Gene: Mbo2_27 Start: 28891, Stop: 29355, Start Num: 81

Candidate Starts for Mbo2_27:

(Start: 81 @28891 has 45 MA's), (97, 28954), (99, 28957), (108, 28987), (113, 29014), (115, 29023), (124, 29053), (130, 29095), (133, 29113), (136, 29122), (138, 29134), (144, 29164), (147, 29173),

Gene: McMater_32 Start: 26622, Stop: 27086, Start Num: 50

Candidate Starts for McMater_32:

(28, 26496), (30, 26523), (Start: 50 @26622 has 129 MA's), (Start: 60 @26652 has 4 MA's), (64, 26658), (Start: 66 @26664 has 1 MA's), (72, 26676), (88, 26724), (91, 26736), (103, 26769), (104, 26772), (115, 26823), (129, 26886), (132, 26907), (136, 26922), (141, 26952), (144, 26964), (148, 26976),

Gene: Mdavu_28 Start: 26735, Stop: 27193, Start Num: 50

Candidate Starts for Mdavu_28:

(24, 26516), (Start: 50 @26735 has 129 MA's), (Start: 60 @26765 has 4 MA's), (64, 26771), (72, 26789), (91, 26849), (100, 26873), (103, 26882), (104, 26885), (107, 26897), (115, 26936), (117, 26945), (118, 26948), (129, 26999), (132, 27020), (136, 27035), (144, 27077), (148, 27089),

Gene: MeaningOfLife_32 Start: 27313, Stop: 27762, Start Num: 50

Candidate Starts for MeaningOfLife_32:

(19, 27076), (33, 27250), (Start: 50 @27313 has 129 MA's), (Start: 60 @27343 has 4 MA's), (64, 27349), (Start: 66 @27355 has 1 MA's), (72, 27367), (88, 27415), (92, 27433), (103, 27460), (115, 27514), (117, 27523), (129, 27577), (132, 27598), (144, 27655),

Gene: Megatron06_37 Start: 32916, Stop: 33377, Start Num: 55

Candidate Starts for Megatron06_37:

(Start: 55 @32916 has 30 MA's), (Start: 59 @32928 has 1 MA's), (69, 32952), (82, 32979), (95, 33036), (100, 33045), (102, 33051), (105, 33060), (107, 33069), (109, 33087), (120, 33132), (121, 33135), (128, 33171), (135, 33207), (139, 33225), (151, 33276), (158, 33312),

Gene: Megsy_32 Start: 27313, Stop: 27753, Start Num: 50

Candidate Starts for Megsy_32:

(19, 27076), (33, 27250), (Start: 50 @27313 has 129 MA's), (Start: 60 @27343 has 4 MA's), (64, 27349), (Start: 66 @27355 has 1 MA's), (72, 27367), (88, 27415), (92, 27433), (103, 27460), (115,

27514), (117, 27523), (129, 27577), (144, 27655), (153, 27688), (169, 27745),

Gene: Milly_30 Start: 26001, Stop: 26387, Start Num: 80

Candidate Starts for Milly_30:

(Start: 80 @26001 has 11 MA's), (Start: 81 @26004 has 45 MA's), (84, 26013), (101, 26076), (103, 26082), (106, 26091), (107, 26097), (110, 26118), (113, 26127), (115, 26136), (117, 26145), (130, 26208), (134, 26229), (138, 26247), (139, 26250),

Gene: Miryou_31 Start: 27900, Stop: 28352, Start Num: 43

Candidate Starts for Miryou_31:

(Start: 43 @27900 has 16 MA's), (Start: 60 @27945 has 4 MA's), (Start: 66 @27957 has 1 MA's), (72, 27969), (88, 28017), (91, 28029), (92, 28035), (103, 28062), (115, 28116), (117, 28125), (120, 28140), (129, 28179), (132, 28200), (143, 28254), (144, 28257), (153, 28290),

Gene: Miskis_49 Start: 32674, Stop: 33081, Start Num: 81

Candidate Starts for Miskis_49:

(Start: 81 @32674 has 45 MA's), (96, 32737), (98, 32740), (124, 32842), (144, 32953), (154, 32995), (173, 33070),

Gene: MissDaisy_33 Start: 28226, Stop: 28624, Start Num: 61

Candidate Starts for MissDaisy_33:

(7, 27848), (10, 27857), (20, 27938), (31, 28106), (Start: 61 @28226 has 23 MA's), (72, 28247), (79, 28256), (104, 28343), (107, 28355), (117, 28403), (120, 28418), (122, 28424), (126, 28442), (130, 28466), (134, 28487), (141, 28523), (146, 28541), (147, 28544), (161, 28604),

Gene: Mitti_33 Start: 28384, Stop: 28782, Start Num: 61

Candidate Starts for Mitti_33:

(31, 28264), (Start: 61 @28384 has 23 MA's), (72, 28405), (79, 28414), (104, 28501), (108, 28516), (120, 28576), (122, 28582), (126, 28600), (130, 28624), (134, 28645), (137, 28657), (139, 28666), (141, 28681), (147, 28702), (161, 28762),

Gene: Mollymur_34 Start: 31778, Stop: 32188, Start Num: 77

Candidate Starts for Mollymur_34:

(Start: 77 @31778 has 8 MA's), (103, 31868), (139, 32039),

Gene: MortyNRick_23 Start: 19924, Stop: 20301, Start Num: 78

Candidate Starts for MortyNRick_23:

(Start: 78 @19924 has 17 MA's), (Start: 81 @19930 has 45 MA's), (93, 19987), (94, 19990), (117, 20074), (122, 20095), (130, 20137), (131, 20140), (132, 20149), (145, 20209), (146, 20212),

Gene: MrMiyagi_30 Start: 29201, Stop: 29620, Start Num: 68

Candidate Starts for MrMiyagi_30:

(46, 29147), (Start: 68 @29201 has 3 MA's), (Start: 75 @29216 has 5 MA's), (85, 29240), (90, 29273), (159, 29570), (163, 29582), (167, 29600),

Gene: Mufasa_31 Start: 26109, Stop: 26495, Start Num: 80

Candidate Starts for Mufasa_31:

(Start: 80 @26109 has 11 MA's), (Start: 81 @26112 has 45 MA's), (101, 26184), (103, 26190), (106, 26199), (107, 26205), (110, 26226), (113, 26235), (114, 26241), (115, 26244), (117, 26253), (130, 26316), (134, 26337), (138, 26355), (139, 26358),

Gene: Murucutumbu_32 Start: 27289, Stop: 27729, Start Num: 50

Candidate Starts for Murucutumbu_32:

(19, 27052), (Start: 50 @27289 has 129 MA's), (Start: 60 @27319 has 4 MA's), (64, 27325), (Start: 66 @27331 has 1 MA's), (72, 27343), (88, 27391), (92, 27409), (103, 27436), (111, 27475), (115, 27490), (117, 27499), (129, 27553), (144, 27631), (169, 27721),

Gene: Mynx_32 Start: 27360, Stop: 27800, Start Num: 50

Candidate Starts for Mynx_32:

(19, 27123), (33, 27297), (Start: 50 @27360 has 129 MA's), (Start: 60 @27390 has 4 MA's), (64, 27396), (Start: 66 @27402 has 1 MA's), (72, 27414), (88, 27462), (92, 27480), (103, 27507), (115, 27561), (117, 27570), (129, 27624), (132, 27645), (144, 27702), (153, 27735), (169, 27792),

Gene: Neighly_32 Start: 27783, Stop: 28235, Start Num: 43

Candidate Starts for Neighly_32:

(Start: 43 @27783 has 16 MA's), (Start: 45 @27786 has 4 MA's), (Start: 60 @27828 has 4 MA's), (Start: 66 @27840 has 1 MA's), (72, 27852), (88, 27900), (91, 27912), (92, 27918), (100, 27936), (103, 27945), (117, 28008), (120, 28023), (129, 28062), (130, 28071), (132, 28083), (143, 28137), (144, 28140), (150, 28161), (153, 28173),

Gene: Nergal_28 Start: 25031, Stop: 25495, Start Num: 47

Candidate Starts for Nergal_28:

(Start: 47 @25031 has 1 MA's), (54, 25046), (88, 25139), (92, 25157), (103, 25184), (104, 25187), (115, 25238), (117, 25247), (129, 25301), (132, 25322), (137, 25343), (144, 25379), (148, 25391),

Gene: Nibb_31 Start: 26478, Stop: 26939, Start Num: 50

Candidate Starts for Nibb_31:

(33, 26415), (Start: 50 @26478 has 129 MA's), (Start: 60 @26508 has 4 MA's), (62, 26511), (74, 26535), (92, 26598), (103, 26625), (115, 26679), (131, 26754), (141, 26808), (144, 26820), (149, 26838), (171, 26931),

Gene: Nikao_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for Nikao_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: Niklas_32 Start: 26625, Stop: 27089, Start Num: 50

Candidate Starts for Niklas_32:

(28, 26499), (30, 26526), (Start: 50 @26625 has 129 MA's), (Start: 60 @26655 has 4 MA's), (64, 26661), (Start: 66 @26667 has 1 MA's), (72, 26679), (88, 26727), (91, 26739), (103, 26772), (104, 26775), (115, 26826), (129, 26889), (132, 26910), (136, 26925), (141, 26955), (144, 26967), (148, 26979),

Gene: Norvs_52 Start: 32913, Stop: 33320, Start Num: 81

Candidate Starts for Norvs_52:

(Start: 81 @32913 has 45 MA's), (96, 32976), (98, 32979), (124, 33081), (144, 33192), (154, 33234), (173, 33309),

Gene: November_30 Start: 27559, Stop: 28023, Start Num: 49

Candidate Starts for November_30:

(Start: 49 @27559 has 11 MA's), (Start: 60 @27589 has 4 MA's), (72, 27613), (89, 27667), (92, 27679), (103, 27706), (115, 27760), (129, 27823), (144, 27901), (148, 27913),

Gene: NovoPizza_29 Start: 29282, Stop: 29686, Start Num: 60

Candidate Starts for NovoPizza_29:

(Start: 60 @29282 has 4 MA's), (Start: 77 @29318 has 8 MA's), (93, 29378), (94, 29381), (98, 29390), (110, 29438), (113, 29447), (131, 29531), (142, 29591), (152, 29627),

Gene: Nutello_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for Nutello_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: Nymphadora_22 Start: 21074, Stop: 21430, Start Num: 81

Candidate Starts for Nymphadora_22:

(Start: 81 @21074 has 45 MA's), (94, 21134), (98, 21143), (117, 21218), (130, 21281), (132, 21293), (145, 21353),

Gene: OBUpride_34 Start: 29590, Stop: 30000, Start Num: 55

Candidate Starts for OBUpride_34:

(Start: 55 @29590 has 30 MA's), (91, 29692), (109, 29758), (113, 29770), (116, 29782), (120, 29803), (138, 29890), (159, 29983),

Gene: Oaker_35 Start: 32640, Stop: 33101, Start Num: 55

Candidate Starts for Oaker_35:

(Start: 55 @32640 has 30 MA's), (Start: 59 @32652 has 1 MA's), (69, 32676), (82, 32703), (95, 32760), (96, 32763), (100, 32769), (102, 32775), (105, 32784), (107, 32793), (120, 32856), (121, 32859), (128, 32895), (135, 32931), (139, 32949), (151, 33000), (158, 33036),

Gene: Ohgeesy_22 Start: 20697, Stop: 21053, Start Num: 81

Candidate Starts for Ohgeesy_22:

(Start: 81 @20697 has 45 MA's), (94, 20757), (98, 20766), (117, 20841), (130, 20904), (132, 20916), (145, 20976),

Gene: OkiRoe_31 Start: 27916, Stop: 28368, Start Num: 43

Candidate Starts for OkiRoe_31:

(Start: 43 @27916 has 16 MA's), (Start: 60 @27961 has 4 MA's), (Start: 66 @27973 has 1 MA's), (72, 27985), (88, 28033), (91, 28045), (92, 28051), (103, 28078), (115, 28132), (117, 28141), (120, 28156), (129, 28195), (132, 28216), (143, 28270), (144, 28273), (153, 28306),

Gene: OmniCritical_33 Start: 28368, Stop: 28766, Start Num: 61

Candidate Starts for OmniCritical_33:

(31, 28248), (Start: 61 @28368 has 23 MA's), (72, 28389), (79, 28398), (104, 28485), (108, 28500), (120, 28560), (122, 28566), (126, 28584), (130, 28608), (134, 28629), (137, 28641), (139, 28650), (141, 28665), (147, 28686), (161, 28746),

Gene: Omnicron_32 Start: 26804, Stop: 27253, Start Num: 43

Candidate Starts for Omnicron_32:

(Start: 43 @26804 has 16 MA's), (Start: 60 @26849 has 4 MA's), (62, 26852), (Start: 66 @26861 has 1 MA's), (72, 26873), (89, 26927), (92, 26939), (100, 26957), (103, 26966), (115, 27020), (117, 27029), (120, 27044), (129, 27083), (130, 27092), (131, 27095), (132, 27104), (143, 27158), (144, 27161), (150, 27182), (153, 27194),

Gene: OneUp_45 Start: 30331, Stop: 30756, Start Num: 73

Candidate Starts for OneUp_45:

(Start: 73 @30331 has 1 MA's), (87, 30364), (107, 30442), (108, 30445), (118, 30493), (124, 30517), (141, 30616), (144, 30628),

Gene: Orchid_30 Start: 35152, Stop: 35535, Start Num: 75

Candidate Starts for Orchid_30:

(Start: 75 @35152 has 5 MA's), (104, 35248), (131, 35374), (134, 35392), (139, 35413),

Gene: Oscar_31 Start: 26446, Stop: 26901, Start Num: 50

Candidate Starts for Oscar_31:

(Start: 50 @26446 has 129 MA's), (Start: 60 @26476 has 4 MA's), (62, 26479), (74, 26503), (92, 26566), (103, 26593), (104, 26596), (115, 26647), (129, 26710), (144, 26788), (149, 26806),

Gene: Padfoot_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Padfoot_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Padpat_32 Start: 27337, Stop: 27777, Start Num: 50

Candidate Starts for Padpat_32:

(19, 27100), (33, 27274), (Start: 50 @27337 has 129 MA's), (Start: 60 @27367 has 4 MA's), (64, 27373), (Start: 66 @27379 has 1 MA's), (72, 27391), (88, 27439), (92, 27457), (103, 27484), (115, 27538), (117, 27547), (129, 27601), (132, 27622), (144, 27679), (153, 27712), (169, 27769),

Gene: Paola_31 Start: 27915, Stop: 28367, Start Num: 43

Candidate Starts for Paola_31:

(Start: 43 @27915 has 16 MA's), (Start: 60 @27960 has 4 MA's), (Start: 66 @27972 has 1 MA's), (72, 27984), (88, 28032), (91, 28044), (92, 28050), (103, 28077), (115, 28131), (117, 28140), (120, 28155), (129, 28194), (132, 28215), (143, 28269), (144, 28272), (153, 28305),

Gene: PatrickStar_30 Start: 35152, Stop: 35535, Start Num: 75

Candidate Starts for PatrickStar_30:

(Start: 75 @35152 has 5 MA's), (104, 35248), (131, 35374), (134, 35392), (139, 35413),

Gene: Patt_33 Start: 28202, Stop: 28600, Start Num: 61

Candidate Starts for Patt_33:

(7, 27824), (10, 27833), (20, 27914), (31, 28082), (Start: 61 @28202 has 23 MA's), (72, 28223), (79, 28232), (104, 28319), (107, 28331), (117, 28379), (120, 28394), (122, 28400), (126, 28418), (130, 28442), (134, 28463), (141, 28499), (146, 28517), (147, 28520), (161, 28580),

Gene: Peanam_32 Start: 26622, Stop: 27086, Start Num: 50

Candidate Starts for Peanam_32:

(28, 26496), (Start: 50 @26622 has 129 MA's), (Start: 60 @26652 has 4 MA's), (64, 26658), (Start: 66 @26664 has 1 MA's), (72, 26676), (88, 26724), (91, 26736), (103, 26769), (104, 26772), (115, 26823), (129, 26886), (132, 26907), (136, 26922), (141, 26952), (144, 26964), (148, 26976),

Gene: Peel_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Peel_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Periwinkle_26 Start: 20664, Stop: 21038, Start Num: 81

Candidate Starts for Periwinkle_26:

(Start: 78 @20658 has 17 MA's), (Start: 81 @20664 has 45 MA's), (93, 20721), (94, 20724), (98, 20733), (117, 20808), (122, 20829), (130, 20871), (131, 20874), (153, 20973),

Gene: Phabuloso_23 Start: 19948, Stop: 20325, Start Num: 78

Candidate Starts for Phabuloso_23:

(Start: 78 @19948 has 17 MA's), (Start: 81 @19954 has 45 MA's), (93, 20011), (94, 20014), (117, 20098), (122, 20119), (130, 20161), (131, 20164), (132, 20173), (145, 20233), (146, 20236),

Gene: Pharb_31 Start: 27504, Stop: 27944, Start Num: 50

Candidate Starts for Pharb_31:

(Start: 50 @27504 has 129 MA's), (Start: 57 @27525 has 4 MA's), (Start: 60 @27534 has 4 MA's), (92, 27624), (103, 27651), (104, 27654), (111, 27690), (115, 27705), (117, 27714), (129, 27768), (134, 27798), (144, 27846), (160, 27915),

Gene: PhelpsODU_32 Start: 26653, Stop: 27117, Start Num: 50

Candidate Starts for PhelpsODU_32:

(Start: 50 @26653 has 129 MA's), (Start: 57 @26674 has 4 MA's), (Start: 60 @26683 has 4 MA's), (62, 26686), (72, 26707), (76, 26713), (91, 26767), (92, 26773), (103, 26800), (129, 26917), (144, 26995), (148, 27007), (162, 27070),

Gene: PhinkBoden_51 Start: 33294, Stop: 33701, Start Num: 81

Candidate Starts for PhinkBoden_51:

(Start: 81 @33294 has 45 MA's), (96, 33357), (98, 33360), (124, 33462), (144, 33573), (154, 33615), (173, 33690),

Gene: Phistory_25 Start: 20985, Stop: 21359, Start Num: 81

Candidate Starts for Phistory_25:

(Start: 78 @20979 has 17 MA's), (Start: 81 @20985 has 45 MA's), (93, 21042), (94, 21045), (117, 21129), (122, 21150), (130, 21192), (131, 21195), (153, 21294),

Gene: Phrank_32 Start: 26603, Stop: 27067, Start Num: 50

Candidate Starts for Phrank_32:

(Start: 50 @26603 has 129 MA's), (Start: 57 @26624 has 4 MA's), (Start: 60 @26633 has 4 MA's), (62, 26636), (76, 26663), (91, 26717), (92, 26723), (103, 26750), (115, 26804), (131, 26879), (144, 26945), (162, 27020),

Gene: Phrappuccino_197 Start: 132691, Stop: 133080, Start Num: 71

Candidate Starts for Phrappuccino_197:

(Start: 71 @132691 has 4 MA's), (98, 132772), (102, 132781), (103, 132784), (117, 132841), (125, 132874), (134, 132925), (135, 132928), (137, 132937), (140, 132955), (142, 132967), (153, 133006),

Gene: Phreeze_35 Start: 32383, Stop: 32844, Start Num: 55

Candidate Starts for Phreeze_35:

(Start: 55 @32383 has 30 MA's), (Start: 59 @32395 has 1 MA's), (69, 32419), (82, 32446), (95, 32503), (96, 32506), (100, 32512), (102, 32518), (105, 32527), (107, 32536), (109, 32554), (120, 32599), (121, 32602), (128, 32638), (135, 32674), (139, 32692), (151, 32743), (158, 32779), (170, 32824),

Gene: Piatt_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Piatt_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Pisa1_31 Start: 27372, Stop: 27812, Start Num: 50

Candidate Starts for Pisa1_31:

(19, 27135), (33, 27309), (Start: 50 @27372 has 129 MA's), (Start: 60 @27402 has 4 MA's), (64, 27408), (Start: 66 @27414 has 1 MA's), (72, 27426), (88, 27474), (92, 27492), (103, 27519), (115, 27573), (117, 27582), (129, 27636), (144, 27714),

Gene: Pisa4_31 Start: 27372, Stop: 27812, Start Num: 50

Candidate Starts for Pisa4_31:

(19, 27135), (33, 27309), (Start: 50 @27372 has 129 MA's), (Start: 60 @27402 has 4 MA's), (64, 27408), (Start: 66 @27414 has 1 MA's), (72, 27426), (88, 27474), (92, 27492), (103, 27519), (115, 27573), (117, 27582), (129, 27636), (144, 27714),

Gene: Pixie_32 Start: 27737, Stop: 28183, Start Num: 50

Candidate Starts for Pixie_32:

(41, 27704), (Start: 50 @27737 has 129 MA's), (Start: 60 @27767 has 4 MA's), (92, 27857), (103, 27884), (104, 27887), (111, 27923), (115, 27938), (129, 28001), (134, 28031), (141, 28067), (144, 28079),

Gene: Pokerus_31 Start: 27294, Stop: 27734, Start Num: 50

Candidate Starts for Pokerus_31:

(19, 27057), (33, 27231), (Start: 50 @27294 has 129 MA's), (Start: 60 @27324 has 4 MA's), (64, 27330), (Start: 66 @27336 has 1 MA's), (72, 27348), (88, 27396), (92, 27414), (103, 27441), (115, 27495), (117, 27504), (129, 27558), (132, 27579), (144, 27636), (153, 27669), (169, 27726),

Gene: Polly_21 Start: 20514, Stop: 20870, Start Num: 81

Candidate Starts for Polly_21:

(34, 20373), (35, 20379), (Start: 48 @20448 has 1 MA's), (Start: 81 @20514 has 45 MA's), (94, 20574), (98, 20583), (120, 20673), (130, 20721), (131, 20724), (132, 20733), (145, 20793),

Gene: Predator_37 Start: 31599, Stop: 32036, Start Num: 55

Candidate Starts for Predator_37:

(Start: 55 @31599 has 30 MA's), (Start: 59 @31611 has 1 MA's), (69, 31635), (95, 31719), (96, 31722), (100, 31728), (117, 31800), (119, 31812), (120, 31815), (135, 31890), (139, 31908), (141, 31923), (151, 31959), (158, 31995),

Gene: Prithvi_32 Start: 27310, Stop: 27750, Start Num: 50

Candidate Starts for Prithvi_32:

(19, 27073), (33, 27247), (Start: 50 @27310 has 129 MA's), (Start: 60 @27340 has 4 MA's), (64, 27346), (Start: 66 @27352 has 1 MA's), (72, 27364), (88, 27412), (92, 27430), (103, 27457), (115, 27511), (117, 27520), (129, 27574), (144, 27652), (153, 27685), (169, 27742),

Gene: Psycho_32 Start: 27959, Stop: 28366, Start Num: 60

Candidate Starts for Psycho_32:

(Start: 43 @27914 has 16 MA's), (Start: 45 @27917 has 4 MA's), (Start: 60 @27959 has 4 MA's), (Start: 66 @27971 has 1 MA's), (72, 27983), (88, 28031), (91, 28043), (92, 28049), (100, 28067), (103, 28076), (117, 28139), (120, 28154), (129, 28193), (130, 28202), (132, 28214), (143, 28268), (144, 28271), (150, 28292), (153, 28304),

Gene: Puissant_34 Start: 32872, Stop: 33333, Start Num: 55

Candidate Starts for Puissant_34:

(Start: 55 @32872 has 30 MA's), (58, 32881), (69, 32908), (95, 32992), (96, 32995), (100, 33001), (102, 33007), (105, 33016), (107, 33025), (120, 33088), (121, 33091), (128, 33127), (139, 33181), (151, 33232), (158, 33268),

Gene: Pupper_173 Start: 126534, Stop: 126953, Start Num: 57

Candidate Starts for Pupper_173:

(Start: 57 @126534 has 4 MA's), (96, 126648), (101, 126657), (130, 126789), (135, 126813), (146, 126864), (150, 126876), (153, 126888),

Gene: Qhanda_34 Start: 28480, Stop: 28878, Start Num: 61

Candidate Starts for Qhanda_34:

(Start: 61 @28480 has 23 MA's), (72, 28501), (79, 28510), (104, 28597), (108, 28612), (120, 28672), (122, 28678), (126, 28696), (130, 28720), (134, 28741), (137, 28753), (139, 28762), (141, 28777), (147, 28798), (161, 28858),

Gene: QuincyRose_31 Start: 27357, Stop: 27806, Start Num: 50

Candidate Starts for QuincyRose_31:

(19, 27120), (33, 27294), (Start: 50 @27357 has 129 MA's), (Start: 60 @27387 has 4 MA's), (64, 27393), (Start: 66 @27399 has 1 MA's), (72, 27411), (88, 27459), (92, 27477), (103, 27504), (115, 27558), (117, 27567), (129, 27621), (132, 27642), (144, 27699),

Gene: Ramen_32 Start: 27343, Stop: 27783, Start Num: 50

Candidate Starts for Ramen_32:

(18, 27094), (33, 27280), (Start: 50 @27343 has 129 MA's), (Start: 60 @27373 has 4 MA's), (64, 27379), (Start: 66 @27385 has 1 MA's), (72, 27397), (88, 27445), (92, 27463), (103, 27490), (115, 27544), (117, 27553), (128, 27604), (129, 27607), (144, 27685), (153, 27718), (169, 27775),

Gene: Rando14_32 Start: 26763, Stop: 27212, Start Num: 43

Candidate Starts for Rando14_32:

(Start: 43 @26763 has 16 MA's), (Start: 60 @26808 has 4 MA's), (62, 26811), (Start: 66 @26820 has 1 MA's), (72, 26832), (89, 26886), (92, 26898), (100, 26916), (103, 26925), (115, 26979), (117, 26988), (120, 27003), (129, 27042), (130, 27051), (131, 27054), (132, 27063), (143, 27117), (144, 27120), (150, 27141), (153, 27153),

Gene: Rapunzel97_32 Start: 27344, Stop: 27784, Start Num: 50

Candidate Starts for Rapunzel97_32:

(19, 27107), (33, 27281), (Start: 50 @27344 has 129 MA's), (Start: 60 @27374 has 4 MA's), (64, 27380), (Start: 66 @27386 has 1 MA's), (72, 27398), (88, 27446), (92, 27464), (103, 27491), (115, 27545), (128, 27605), (129, 27608), (132, 27629), (144, 27686), (153, 27719), (169, 27776),

Gene: Reptar3000_33 Start: 28193, Stop: 28591, Start Num: 61

Candidate Starts for Reptar3000_33:

(Start: 61 @28193 has 23 MA's), (72, 28214), (79, 28223), (104, 28310), (107, 28322), (117, 28370), (120, 28385), (122, 28391), (126, 28409), (130, 28433), (134, 28454), (141, 28490), (146, 28508), (147, 28511), (161, 28571),

Gene: Richo_32 Start: 26622, Stop: 27086, Start Num: 50

Candidate Starts for Richo_32:

(28, 26496), (30, 26523), (Start: 50 @26622 has 129 MA's), (Start: 60 @26652 has 4 MA's), (64, 26658), (Start: 66 @26664 has 1 MA's), (72, 26676), (88, 26724), (91, 26736), (103, 26769), (104, 26772), (115, 26823), (129, 26886), (132, 26907), (136, 26922), (141, 26952), (144, 26964), (148, 26976),

Gene: RobinSparkles_33 Start: 36069, Stop: 36452, Start Num: 75

Candidate Starts for RobinSparkles_33:

(Start: 75 @36069 has 5 MA's), (104, 36165), (131, 36291), (134, 36309), (139, 36330),

Gene: Rosmarinus_32 Start: 27365, Stop: 27805, Start Num: 50

Candidate Starts for Rosmarinus_32:

(33, 27302), (Start: 50 @27365 has 129 MA's), (Start: 60 @27395 has 4 MA's), (64, 27401), (Start: 66 @27407 has 1 MA's), (72, 27419), (88, 27467), (92, 27485), (103, 27512), (115, 27566), (117, 27575), (129, 27629), (132, 27650), (144, 27707), (153, 27740), (169, 27797),

Gene: Ruthiejr_34 Start: 28349, Stop: 28747, Start Num: 61

Candidate Starts for Ruthiejr_34:

(Start: 61 @28349 has 23 MA's), (72, 28370), (79, 28379), (104, 28466), (108, 28481), (120, 28541), (122, 28547), (126, 28565), (130, 28589), (134, 28610), (137, 28622), (139, 28631), (141, 28646), (161, 28727),

Gene: SCentae_172 Start: 126727, Stop: 127146, Start Num: 57

Candidate Starts for SCentae_172:

(Start: 57 @126727 has 4 MA's), (96, 126841), (101, 126850), (130, 126982), (135, 127006), (146, 127057), (150, 127069), (153, 127081),

Gene: SamScheppers_33 Start: 28862, Stop: 29260, Start Num: 61

Candidate Starts for SamScheppers_33:

(31, 28742), (Start: 61 @28862 has 23 MA's), (72, 28883), (79, 28892), (104, 28979), (108, 28994), (120, 29054), (122, 29060), (126, 29078), (130, 29102), (134, 29123), (137, 29135), (139, 29144), (141, 29159), (161, 29240),

Gene: SamuelLPlaqson_32 Start: 27266, Stop: 27706, Start Num: 50

Candidate Starts for SamuelLPlaqson_32:

(Start: 43 @27251 has 16 MA's), (Start: 50 @27266 has 129 MA's), (Start: 60 @27296 has 4 MA's), (64, 27302), (Start: 66 @27308 has 1 MA's), (72, 27320), (88, 27368), (92, 27386), (103, 27413), (115, 27467), (117, 27476), (129, 27530), (144, 27608), (153, 27641), (169, 27698), (170, 27701),

Gene: Sbash_27 Start: 25423, Stop: 25824, Start Num: 71

Candidate Starts for Sbash_27:

(Start: 71 @25423 has 4 MA's), (96, 25498), (98, 25501), (116, 25564), (130, 25633), (137, 25666), (139, 25675), (153, 25735), (155, 25750), (166, 25780), (172, 25816),

Gene: Scarlett_31 Start: 26447, Stop: 26902, Start Num: 50

Candidate Starts for Scarlett_31:

(Start: 50 @26447 has 129 MA's), (Start: 60 @26477 has 4 MA's), (62, 26480), (74, 26504), (92, 26567), (103, 26594), (104, 26597), (115, 26648), (129, 26711), (144, 26789), (148, 26801), (149, 26807),

Gene: Settecandela_222 Start: 141538, Stop: 141927, Start Num: 71

Candidate Starts for Settecandela_222:

(Start: 71 @141538 has 4 MA's), (98, 141619), (102, 141628), (103, 141631), (117, 141688), (125, 141721), (134, 141772), (135, 141775), (137, 141784), (140, 141802), (142, 141814), (153, 141853),

Gene: SgtBeansprout_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for SgtBeansprout_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: Shadow1_31 Start: 26476, Stop: 26940, Start Num: 50

Candidate Starts for Shadow1_31:

(Start: 50 @26476 has 129 MA's), (Start: 57 @26497 has 4 MA's), (Start: 60 @26506 has 4 MA's), (62, 26509), (76, 26536), (91, 26590), (92, 26596), (103, 26623), (115, 26677), (129, 26740), (132, 26761), (144, 26818), (148, 26830),

Gene: Shaobing_32 Start: 26622, Stop: 27086, Start Num: 50

Candidate Starts for Shaobing_32:

(28, 26496), (30, 26523), (Start: 50 @26622 has 129 MA's), (Start: 60 @26652 has 4 MA's), (64, 26658), (Start: 66 @26664 has 1 MA's), (72, 26676), (88, 26724), (91, 26736), (103, 26769), (104, 26772), (115, 26823), (129, 26886), (132, 26907), (136, 26922), (141, 26952), (144, 26964), (148, 26976),

Gene: ShawBrad_24 Start: 20207, Stop: 20581, Start Num: 81

Candidate Starts for ShawBrad_24:

(Start: 78 @20201 has 17 MA's), (Start: 81 @20207 has 45 MA's), (93, 20264), (94, 20267), (98, 20276), (117, 20351), (122, 20372), (130, 20414), (131, 20417), (153, 20516),

Gene: ShedlockHolmes_33 Start: 28259, Stop: 28705, Start Num: 50

Candidate Starts for ShedlockHolmes_33:

(41, 28226), (Start: 50 @28259 has 129 MA's), (Start: 60 @28289 has 4 MA's), (92, 28379), (103, 28406), (104, 28409), (111, 28445), (115, 28460), (129, 28523), (134, 28553), (144, 28601),

Gene: ShiaSurprise_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for ShiaSurprise_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (128, 27638), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Sidious_22 Start: 20529, Stop: 20909, Start Num: 81

Candidate Starts for Sidious_22:

(Start: 81 @20529 has 45 MA's), (98, 20598), (117, 20673), (145, 20808), (147, 20814), (164, 20883),

Gene: SirPhilip_31 Start: 26116, Stop: 26580, Start Num: 49

Candidate Starts for SirPhilip_31:

(Start: 49 @26116 has 11 MA's), (Start: 60 @26146 has 4 MA's), (62, 26149), (74, 26173), (91, 26230), (92, 26236), (103, 26263), (104, 26266), (115, 26317), (129, 26380), (144, 26458), (148, 26470), (149, 26476), (171, 26569),

Gene: Skog_5 Start: 3101, Stop: 3520, Start Num: 57

Candidate Starts for Skog_5:

(Start: 57 @3101 has 4 MA's), (96, 3215), (101, 3224), (130, 3356), (135, 3380), (146, 3431), (150, 3443), (153, 3455),

Gene: Slarp_33 Start: 28471, Stop: 28869, Start Num: 61

Candidate Starts for Slarp_33:

(Start: 61 @28471 has 23 MA's), (72, 28492), (79, 28501), (104, 28588), (108, 28603), (120, 28663), (122, 28669), (126, 28687), (130, 28711), (134, 28732), (137, 28744), (139, 28753), (141, 28768), (147, 28789), (161, 28849),

Gene: Slimphazie_32 Start: 27344, Stop: 27784, Start Num: 50

Candidate Starts for Slimphazie_32:

(19, 27107), (33, 27281), (Start: 50 @27344 has 129 MA's), (Start: 60 @27374 has 4 MA's), (64, 27380), (Start: 66 @27386 has 1 MA's), (72, 27398), (88, 27446), (92, 27464), (103, 27491), (115,

27545), (128, 27605), (129, 27608), (132, 27629), (144, 27686), (153, 27719), (169, 27776),

Gene: Smoothie_53 Start: 33369, Stop: 33776, Start Num: 81

Candidate Starts for Smoothie_53:

(Start: 81 @33369 has 45 MA's), (96, 33432), (98, 33435), (124, 33537), (144, 33648), (154, 33690), (173, 33765),

Gene: SoSeph_31 Start: 28061, Stop: 28513, Start Num: 43

Candidate Starts for SoSeph_31:

(Start: 43 @28061 has 16 MA's), (Start: 60 @28106 has 4 MA's), (Start: 66 @28118 has 1 MA's), (72, 28130), (88, 28178), (91, 28190), (92, 28196), (103, 28223), (104, 28226), (115, 28277), (117, 28286), (120, 28301), (129, 28340), (132, 28361), (143, 28415), (144, 28418), (153, 28451),

Gene: Sparky_28 Start: 26721, Stop: 27113, Start Num: 77

Candidate Starts for Sparky_28:

(Start: 77 @26721 has 8 MA's), (96, 26787), (98, 26790), (116, 26853), (130, 26922), (134, 26943), (137, 26955), (139, 26964), (153, 27024), (155, 27039), (166, 27069), (172, 27105),

Gene: SpeedDemon_350 Start: 32425, Stop: 32838, Start Num: 77

Candidate Starts for SpeedDemon_350:

(Start: 77 @32425 has 8 MA's), (103, 32515), (108, 32533), (126, 32617), (148, 32728),

Gene: Spock_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Spock_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Spooky_24 Start: 20292, Stop: 20663, Start Num: 81

Candidate Starts for Spooky_24:

(4, 19797), (12, 19908), (14, 19926), (Start: 78 @20286 has 17 MA's), (Start: 81 @20292 has 45 MA's), (93, 20349), (98, 20361), (117, 20436), (130, 20499), (131, 20502), (136, 20526), (145, 20571), (146, 20574),

Gene: Squiddly_26 Start: 21704, Stop: 22075, Start Num: 81

Candidate Starts for Squiddly_26:

(4, 21209), (12, 21320), (14, 21338), (Start: 78 @21698 has 17 MA's), (Start: 81 @21704 has 45 MA's), (93, 21761), (98, 21773), (117, 21848), (130, 21911), (131, 21914), (136, 21938), (145, 21983), (146, 21986),

Gene: Stinson_33 Start: 27579, Stop: 28019, Start Num: 50

Candidate Starts for Stinson_33:

(19, 27342), (Start: 50 @27579 has 129 MA's), (Start: 60 @27609 has 4 MA's), (64, 27615), (Start: 66 @27621 has 1 MA's), (72, 27633), (88, 27681), (92, 27699), (103, 27726), (111, 27765), (115, 27780), (117, 27789), (129, 27843), (144, 27921), (153, 27954), (169, 28011),

Gene: Strobilo_30 Start: 26001, Stop: 26387, Start Num: 80

Candidate Starts for Strobilo_30:

(Start: 80 @26001 has 11 MA's), (Start: 81 @26004 has 45 MA's), (84, 26013), (101, 26076), (103, 26082), (106, 26091), (107, 26097), (110, 26118), (113, 26127), (115, 26136), (117, 26145), (130, 26208), (134, 26229), (138, 26247), (139, 26250),

Gene: Stuck_31 Start: 25768, Stop: 26169, Start Num: 71

Candidate Starts for Stuck_31:

(Start: 71 @25768 has 4 MA's), (96, 25843), (98, 25846), (116, 25909), (130, 25978), (137, 26011), (139, 26020), (153, 26080), (155, 26095), (166, 26125), (172, 26161),

Gene: Sulley_32 Start: 27310, Stop: 27750, Start Num: 50

Candidate Starts for Sulley_32:

(33, 27247), (Start: 50 @27310 has 129 MA's), (Start: 60 @27340 has 4 MA's), (64, 27346), (Start: 66 @27352 has 1 MA's), (72, 27364), (88, 27412), (92, 27430), (103, 27457), (115, 27511), (117, 27520), (129, 27574), (132, 27595), (144, 27652), (153, 27685), (169, 27742),

Gene: Sunflower1121_31 Start: 26488, Stop: 26952, Start Num: 50

Candidate Starts for Sunflower1121_31:

(Start: 50 @26488 has 129 MA's), (Start: 57 @26509 has 4 MA's), (Start: 60 @26518 has 4 MA's), (62, 26521), (76, 26548), (91, 26602), (92, 26608), (103, 26635), (115, 26689), (129, 26752), (132, 26773), (144, 26830), (148, 26842), (162, 26905),

Gene: Syra333_32 Start: 26498, Stop: 26962, Start Num: 50

Candidate Starts for Syra333_32:

(Start: 50 @26498 has 129 MA's), (Start: 57 @26519 has 4 MA's), (Start: 60 @26528 has 4 MA's), (62, 26531), (76, 26558), (91, 26612), (92, 26618), (103, 26645), (115, 26699), (129, 26762), (132, 26783), (144, 26840), (148, 26852),

Gene: TBond007_32 Start: 27736, Stop: 28182, Start Num: 50

Candidate Starts for TBond007_32:

(41, 27703), (Start: 50 @27736 has 129 MA's), (Start: 60 @27766 has 4 MA's), (92, 27856), (103, 27883), (104, 27886), (111, 27922), (115, 27937), (129, 28000), (134, 28030), (141, 28066), (144, 28078),

Gene: TClif_33 Start: 27061, Stop: 27525, Start Num: 48

Candidate Starts for TClif_33:

(Start: 48 @27061 has 1 MA's), (Start: 60 @27091 has 4 MA's), (62, 27094), (Start: 66 @27103 has 1 MA's), (72, 27115), (76, 27121), (92, 27181), (103, 27208), (104, 27211), (115, 27262), (129, 27325), (144, 27403),

Gene: TM4_31 Start: 26207, Stop: 26593, Start Num: 80

Candidate Starts for TM4_31:

(Start: 80 @26207 has 11 MA's), (Start: 81 @26210 has 45 MA's), (84, 26219), (88, 26243), (101, 26282), (103, 26288), (106, 26297), (107, 26303), (110, 26324), (113, 26333), (115, 26342), (117, 26351), (130, 26414), (134, 26435), (138, 26453), (139, 26456),

Gene: TPA4_33 Start: 29799, Stop: 30185, Start Num: 82

Candidate Starts for TPA4_33:

(25, 29538), (42, 29694), (Start: 80 @29793 has 11 MA's), (82, 29799), (119, 29949), (123, 29961), (126, 29976), (130, 30006), (144, 30075), (147, 30084), (156, 30123),

Gene: Tachez_32 Start: 27306, Stop: 27746, Start Num: 50

Candidate Starts for Tachez_32:

(19, 27069), (33, 27243), (Start: 50 @27306 has 129 MA's), (Start: 60 @27336 has 4 MA's), (64, 27342), (Start: 66 @27348 has 1 MA's), (72, 27360), (88, 27408), (92, 27426), (103, 27453), (115, 27507), (128, 27567), (129, 27570), (132, 27591), (144, 27648), (153, 27681), (169, 27738),

Gene: TaiwanKao_33 Start: 27310, Stop: 27750, Start Num: 50

Candidate Starts for TaiwanKao_33:

(19, 27073), (33, 27247), (Start: 50 @27310 has 129 MA's), (Start: 60 @27340 has 4 MA's), (64, 27346), (Start: 66 @27352 has 1 MA's), (72, 27364), (88, 27412), (92, 27430), (103, 27457), (115, 27511), (117, 27520), (129, 27574), (144, 27652), (153, 27685), (169, 27742),

Gene: Taquito_33 Start: 28909, Stop: 29307, Start Num: 61

Candidate Starts for Taquito_33:

(31, 28789), (Start: 61 @28909 has 23 MA's), (72, 28930), (79, 28939), (104, 29026), (108, 29041), (120, 29101), (122, 29107), (126, 29125), (130, 29149), (134, 29170), (137, 29182), (139, 29191), (141, 29206), (147, 29227), (161, 29287),

Gene: Teejan_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for Teejan_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: ThankyouJordi_21 Start: 21049, Stop: 21405, Start Num: 81

Candidate Starts for ThankyouJordi_21:

(Start: 81 @21049 has 45 MA's), (94, 21109), (145, 21328),

Gene: Thumb_35 Start: 32380, Stop: 32841, Start Num: 55

Candidate Starts for Thumb_35:

(Start: 55 @32380 has 30 MA's), (Start: 59 @32392 has 1 MA's), (69, 32416), (82, 32443), (95, 32500), (96, 32503), (100, 32509), (102, 32515), (105, 32524), (107, 32533), (109, 32551), (120, 32596), (121, 32599), (128, 32635), (135, 32671), (139, 32689), (151, 32740), (158, 32776),

Gene: Thyatira_31 Start: 27915, Stop: 28367, Start Num: 43

Candidate Starts for Thyatira_31:

(Start: 43 @27915 has 16 MA's), (Start: 60 @27960 has 4 MA's), (Start: 66 @27972 has 1 MA's), (72, 27984), (88, 28032), (91, 28044), (92, 28050), (103, 28077), (115, 28131), (117, 28140), (120, 28155), (129, 28194), (132, 28215), (143, 28269), (144, 28272), (153, 28305),

Gene: Tierra_32 Start: 27324, Stop: 27788, Start Num: 50

Candidate Starts for Tierra_32:

(Start: 50 @27324 has 129 MA's), (Start: 57 @27345 has 4 MA's), (Start: 60 @27354 has 4 MA's), (62, 27357), (76, 27384), (91, 27438), (92, 27444), (103, 27471), (115, 27525), (131, 27600), (144, 27666), (162, 27741),

Gene: Tigress9_33 Start: 26494, Stop: 26958, Start Num: 50

Candidate Starts for Tigress9_33:

(Start: 50 @26494 has 129 MA's), (Start: 57 @26515 has 4 MA's), (Start: 60 @26524 has 4 MA's), (62, 26527), (91, 26608), (92, 26614), (103, 26641), (115, 26695), (129, 26758), (132, 26779), (144, 26836), (148, 26848),

Gene: TimTam_22 Start: 21074, Stop: 21430, Start Num: 81

Candidate Starts for TimTam_22:

(Start: 81 @21074 has 45 MA's), (94, 21134), (98, 21143), (117, 21218), (130, 21281), (132, 21293), (145, 21353),

Gene: TingHuaYa_32 Start: 26466, Stop: 26918, Start Num: 50

Candidate Starts for TingHuaYa_32:

(15, 26208), (28, 26343), (33, 26403), (Start: 50 @26466 has 129 MA's), (Start: 60 @26496 has 4 MA's), (64, 26502), (Start: 66 @26508 has 1 MA's), (72, 26520), (88, 26568), (91, 26580), (103,

26613), (104, 26616), (115, 26667), (129, 26730), (130, 26739), (132, 26751), (144, 26808),

Gene: TiniBug_32 Start: 27262, Stop: 27702, Start Num: 50

Candidate Starts for TiniBug_32:

(6, 26935), (33, 27199), (Start: 50 @27262 has 129 MA's), (Start: 60 @27292 has 4 MA's), (64, 27298), (Start: 66 @27304 has 1 MA's), (72, 27316), (88, 27364), (92, 27382), (103, 27409), (115, 27463), (117, 27472), (129, 27526), (144, 27604), (153, 27637), (169, 27694),

Gene: Tiri_32 Start: 27349, Stop: 27798, Start Num: 50

Candidate Starts for Tiri_32:

(19, 27112), (33, 27286), (Start: 50 @27349 has 129 MA's), (Start: 60 @27379 has 4 MA's), (64, 27385), (Start: 66 @27391 has 1 MA's), (72, 27403), (88, 27451), (92, 27469), (103, 27496), (115, 27550), (117, 27559), (129, 27613), (132, 27634), (144, 27691), (169, 27790),

Gene: Toniann_51 Start: 32856, Stop: 33263, Start Num: 81

Candidate Starts for Toniann_51:

(Start: 81 @32856 has 45 MA's), (96, 32919), (98, 32922), (124, 33024), (144, 33135), (154, 33177), (173, 33252),

Gene: Topper_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Topper_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Torres_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for Torres_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: Towmatter_31 Start: 28924, Stop: 29334, Start Num: 77

Candidate Starts for Towmatter_31:

(Start: 77 @28924 has 8 MA's), (110, 29050), (139, 29185), (162, 29284),

Gene: TreyKay_32 Start: 27310, Stop: 27750, Start Num: 50

Candidate Starts for TreyKay_32:

(19, 27073), (33, 27247), (Start: 50 @27310 has 129 MA's), (Start: 60 @27340 has 4 MA's), (64, 27346), (Start: 66 @27352 has 1 MA's), (72, 27364), (88, 27412), (92, 27430), (103, 27457), (115, 27511), (117, 27520), (129, 27574), (144, 27652), (153, 27685), (169, 27742),

Gene: TribbleTrouble_31 Start: 27787, Stop: 28239, Start Num: 50

Candidate Starts for TribbleTrouble_31:

(41, 27754), (Start: 50 @27787 has 129 MA's), (Start: 60 @27817 has 4 MA's), (92, 27907), (103, 27934), (104, 27937), (111, 27973), (115, 27988), (129, 28051), (132, 28072), (144, 28129), (153, 28162),

Gene: Trice_28 Start: 26747, Stop: 27205, Start Num: 50

Candidate Starts for Trice_28:

(24, 26528), (Start: 50 @26747 has 129 MA's), (Start: 60 @26777 has 4 MA's), (64, 26783), (72, 26801), (91, 26861), (100, 26885), (103, 26894), (104, 26897), (107, 26909), (115, 26948), (117, 26957), (118, 26960), (129, 27011), (132, 27032), (136, 27047), (144, 27089), (148, 27101),

Gene: TruffulaTree_32 Start: 27340, Stop: 27780, Start Num: 50

Candidate Starts for TruffulaTree_32:

(33, 27277), (Start: 50 @27340 has 129 MA's), (Start: 60 @27370 has 4 MA's), (64, 27376), (Start: 66 @27382 has 1 MA's), (72, 27394), (88, 27442), (92, 27460), (103, 27487), (115, 27541), (128, 27601), (129, 27604), (132, 27625), (144, 27682), (153, 27715), (169, 27772),

Gene: Twitch_32 Start: 27377, Stop: 27817, Start Num: 50

Candidate Starts for Twitch_32:

(33, 27314), (Start: 50 @27377 has 129 MA's), (Start: 60 @27407 has 4 MA's), (64, 27413), (Start: 66 @27419 has 1 MA's), (72, 27431), (88, 27479), (92, 27497), (103, 27524), (115, 27578), (117, 27587), (129, 27641), (132, 27662), (144, 27719), (153, 27752), (169, 27809),

Gene: Typha_33 Start: 30335, Stop: 30691, Start Num: 81

Candidate Starts for Typha_33:

(32, 30185), (Start: 81 @30335 has 45 MA's), (88, 30368), (104, 30416), (107, 30428), (111, 30452), (115, 30467), (119, 30488), (127, 30518), (130, 30539), (131, 30542), (144, 30608), (147, 30617), (150, 30629),

Gene: Ubuntu_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Ubuntu_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Unicorn_32 Start: 26653, Stop: 27117, Start Num: 50

Candidate Starts for Unicorn_32:

(Start: 50 @26653 has 129 MA's), (Start: 57 @26674 has 4 MA's), (Start: 60 @26683 has 4 MA's), (62, 26686), (72, 26707), (76, 26713), (91, 26767), (92, 26773), (103, 26800), (129, 26917), (144, 26995), (148, 27007), (162, 27070),

Gene: Urkel_32 Start: 27266, Stop: 27706, Start Num: 50

Candidate Starts for Urkel_32:

(Start: 43 @27251 has 16 MA's), (Start: 50 @27266 has 129 MA's), (Start: 60 @27296 has 4 MA's), (64, 27302), (Start: 66 @27308 has 1 MA's), (72, 27320), (88, 27368), (92, 27386), (103, 27413), (115, 27467), (117, 27476), (129, 27530), (144, 27608), (153, 27641), (169, 27698), (170, 27701),

Gene: Validus_32 Start: 26557, Stop: 27018, Start Num: 50

Candidate Starts for Validus_32:

(Start: 50 @26557 has 129 MA's), (53, 26566), (Start: 60 @26587 has 4 MA's), (62, 26590), (64, 26593), (Start: 66 @26599 has 1 MA's), (72, 26611), (88, 26659), (91, 26671), (103, 26704), (104, 26707), (115, 26758), (129, 26821), (132, 26842), (136, 26857), (141, 26887), (144, 26899), (148, 26911),

Gene: VanLee_29 Start: 25243, Stop: 25584, Start Num: 86

Candidate Starts for VanLee_29:

(Start: 86 @25243 has 1 MA's), (98, 25297), (116, 25366), (130, 25450), (146, 25525),

Gene: Veliki_32 Start: 27380, Stop: 27820, Start Num: 50

Candidate Starts for Veliki_32:

(19, 27143), (33, 27317), (Start: 50 @27380 has 129 MA's), (Start: 60 @27410 has 4 MA's), (64, 27416), (Start: 66 @27422 has 1 MA's), (72, 27434), (88, 27482), (92, 27500), (103, 27527), (115, 27581), (128, 27641), (129, 27644), (132, 27665), (144, 27722), (153, 27755), (169, 27812),

Gene: ViviJ_30 Start: 27749, Stop: 28198, Start Num: 45

Candidate Starts for ViviJ_30:

(3, 27233), (4, 27347), (Start: 43 @27746 has 16 MA's), (Start: 45 @27749 has 4 MA's), (Start: 60 @27791 has 4 MA's), (Start: 66 @27803 has 1 MA's), (72, 27815), (88, 27863), (91, 27875), (92, 27881), (100, 27899), (103, 27908), (115, 27962), (117, 27971), (120, 27986), (129, 28025), (130, 28034), (132, 28046), (141, 28091), (143, 28100), (144, 28103), (150, 28124), (153, 28136),

Gene: Waterfoul_31 Start: 27939, Stop: 28391, Start Num: 43

Candidate Starts for Waterfoul_31:

(Start: 43 @27939 has 16 MA's), (Start: 60 @27984 has 4 MA's), (Start: 66 @27996 has 1 MA's), (72, 28008), (88, 28056), (91, 28068), (92, 28074), (103, 28101), (115, 28155), (117, 28164), (120, 28179), (129, 28218), (132, 28239), (143, 28293), (144, 28296), (153, 28329),

Gene: Webster2_34 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Webster2_34:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: WelcomeAyanna_21 Start: 21049, Stop: 21405, Start Num: 81

Candidate Starts for WelcomeAyanna_21:

(Start: 81 @21049 has 45 MA's), (94, 21109), (145, 21328),

Gene: Whitney_25 Start: 21106, Stop: 21480, Start Num: 81

Candidate Starts for Whitney_25:

(4, 20611), (12, 20722), (14, 20740), (Start: 78 @21100 has 17 MA's), (Start: 81 @21106 has 45 MA's), (93, 21163), (94, 21166), (98, 21175), (117, 21250), (130, 21313), (131, 21316), (132, 21325), (145, 21385), (146, 21388),

Gene: WilliamBoone_51 Start: 32208, Stop: 32615, Start Num: 81

Candidate Starts for WilliamBoone_51:

(Start: 81 @32208 has 45 MA's), (114, 32337), (115, 32340), (119, 32361), (124, 32376), (144, 32487), (154, 32529), (173, 32604),

Gene: Wintermute_33 Start: 28458, Stop: 28856, Start Num: 61

Candidate Starts for Wintermute_33:

(Start: 61 @28458 has 23 MA's), (72, 28479), (79, 28488), (104, 28575), (108, 28590), (120, 28650), (122, 28656), (126, 28674), (130, 28698), (134, 28719), (137, 28731), (139, 28740), (141, 28755), (147, 28776), (161, 28836),

Gene: Wishmaker_33 Start: 29596, Stop: 30006, Start Num: 55

Candidate Starts for Wishmaker_33:

(Start: 55 @29596 has 30 MA's), (91, 29698), (109, 29764), (113, 29776), (116, 29788), (120, 29809), (138, 29896), (159, 29989),

Gene: Ximenita_33 Start: 26680, Stop: 27144, Start Num: 50

Candidate Starts for Ximenita_33:

(Start: 50 @26680 has 129 MA's), (Start: 57 @26701 has 4 MA's), (Start: 60 @26710 has 4 MA's), (62, 26713), (76, 26740), (91, 26794), (92, 26800), (103, 26827), (115, 26881), (129, 26944), (131, 26956), (144, 27022), (162, 27097),

Gene: Y10_33 Start: 28458, Stop: 28856, Start Num: 61

Candidate Starts for Y10_33:

(Start: 61 @28458 has 23 MA's), (72, 28479), (79, 28488), (104, 28575), (108, 28590), (111, 28611), (122, 28656), (126, 28674), (130, 28698), (134, 28719), (137, 28731), (139, 28740), (141, 28755),

(147, 28776),

Gene: Y2_33 Start: 28458, Stop: 28856, Start Num: 61

Candidate Starts for Y2_33:

(Start: 61 @28458 has 23 MA's), (72, 28479), (79, 28488), (104, 28575), (108, 28590), (111, 28611), (122, 28656), (126, 28674), (130, 28698), (134, 28719), (137, 28731), (139, 28740), (141, 28755), (147, 28776),

Gene: YasnayaPolyana_33 Start: 28459, Stop: 28857, Start Num: 61

Candidate Starts for YasnayaPolyana_33:

(Start: 61 @28459 has 23 MA's), (72, 28480), (79, 28489), (104, 28576), (108, 28591), (122, 28657), (126, 28675), (130, 28699), (134, 28720), (137, 28732), (139, 28741), (141, 28756), (147, 28777),

Gene: YoureAdopted_31 Start: 27313, Stop: 27753, Start Num: 50

Candidate Starts for YoureAdopted_31:

(33, 27250), (Start: 50 @27313 has 129 MA's), (Start: 60 @27343 has 4 MA's), (64, 27349), (Start: 66 @27355 has 1 MA's), (72, 27367), (88, 27415), (92, 27433), (103, 27460), (115, 27514), (117, 27523), (129, 27577), (132, 27598), (144, 27655), (153, 27688), (169, 27745),

Gene: Yuna_33 Start: 27088, Stop: 27546, Start Num: 50

Candidate Starts for Yuna_33:

(Start: 50 @27088 has 129 MA's), (Start: 57 @27109 has 4 MA's), (Start: 60 @27118 has 4 MA's), (62, 27121), (72, 27142), (92, 27208), (103, 27235), (115, 27289), (119, 27310), (129, 27352), (130, 27361), (144, 27430),

Gene: Yunkel11_32 Start: 26598, Stop: 27047, Start Num: 50

Candidate Starts for Yunkel11_32:

(Start: 50 @26598 has 129 MA's), (Start: 60 @26628 has 4 MA's), (64, 26634), (Start: 66 @26640 has 1 MA's), (72, 26652), (88, 26700), (91, 26712), (103, 26745), (104, 26748), (115, 26799), (117, 26808), (129, 26862), (132, 26883), (136, 26898), (144, 26940), (169, 27039),

Gene: Zabiza_32 Start: 27344, Stop: 27784, Start Num: 50

Candidate Starts for Zabiza_32:

(19, 27107), (33, 27281), (Start: 50 @27344 has 129 MA's), (Start: 60 @27374 has 4 MA's), (64, 27380), (Start: 66 @27386 has 1 MA's), (72, 27398), (88, 27446), (92, 27464), (103, 27491), (115, 27545), (128, 27605), (129, 27608), (132, 27629), (144, 27686), (153, 27719), (169, 27776),

Gene: Zavala_32 Start: 27319, Stop: 27759, Start Num: 50

Candidate Starts for Zavala_32:

(19, 27082), (27, 27193), (33, 27256), (Start: 50 @27319 has 129 MA's), (Start: 60 @27349 has 4 MA's), (64, 27355), (Start: 66 @27361 has 1 MA's), (72, 27373), (88, 27421), (92, 27439), (103, 27466), (115, 27520), (117, 27529), (129, 27583), (132, 27604), (144, 27661), (153, 27694), (169, 27751),

Gene: Zirinka_22 Start: 21086, Stop: 21442, Start Num: 81

Candidate Starts for Zirinka_22:

(Start: 81 @21086 has 45 MA's), (94, 21146), (98, 21155), (117, 21230), (130, 21293), (132, 21305), (145, 21365),

Gene: ZoeJ_30 Start: 25982, Stop: 26392, Start Num: 80

Candidate Starts for ZoeJ_30:

(Start: 80 @25982 has 11 MA's), (Start: 81 @25985 has 45 MA's), (84, 25994), (101, 26057), (103, 26063), (106, 26072), (107, 26078), (110, 26099), (113, 26108), (114, 26114), (115, 26117), (117,

26126), (130, 26189), (134, 26210), (138, 26228), (139, 26231),