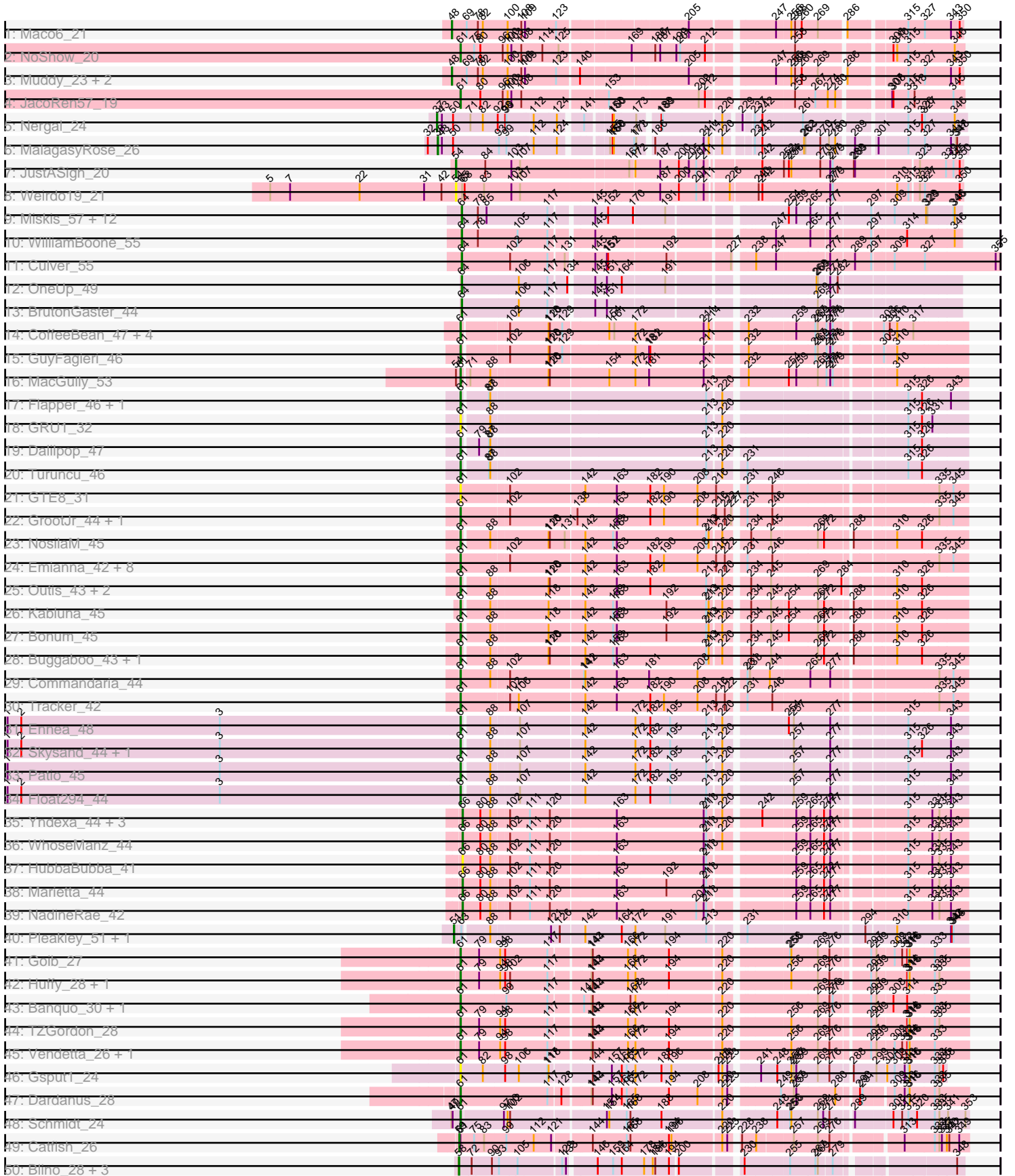
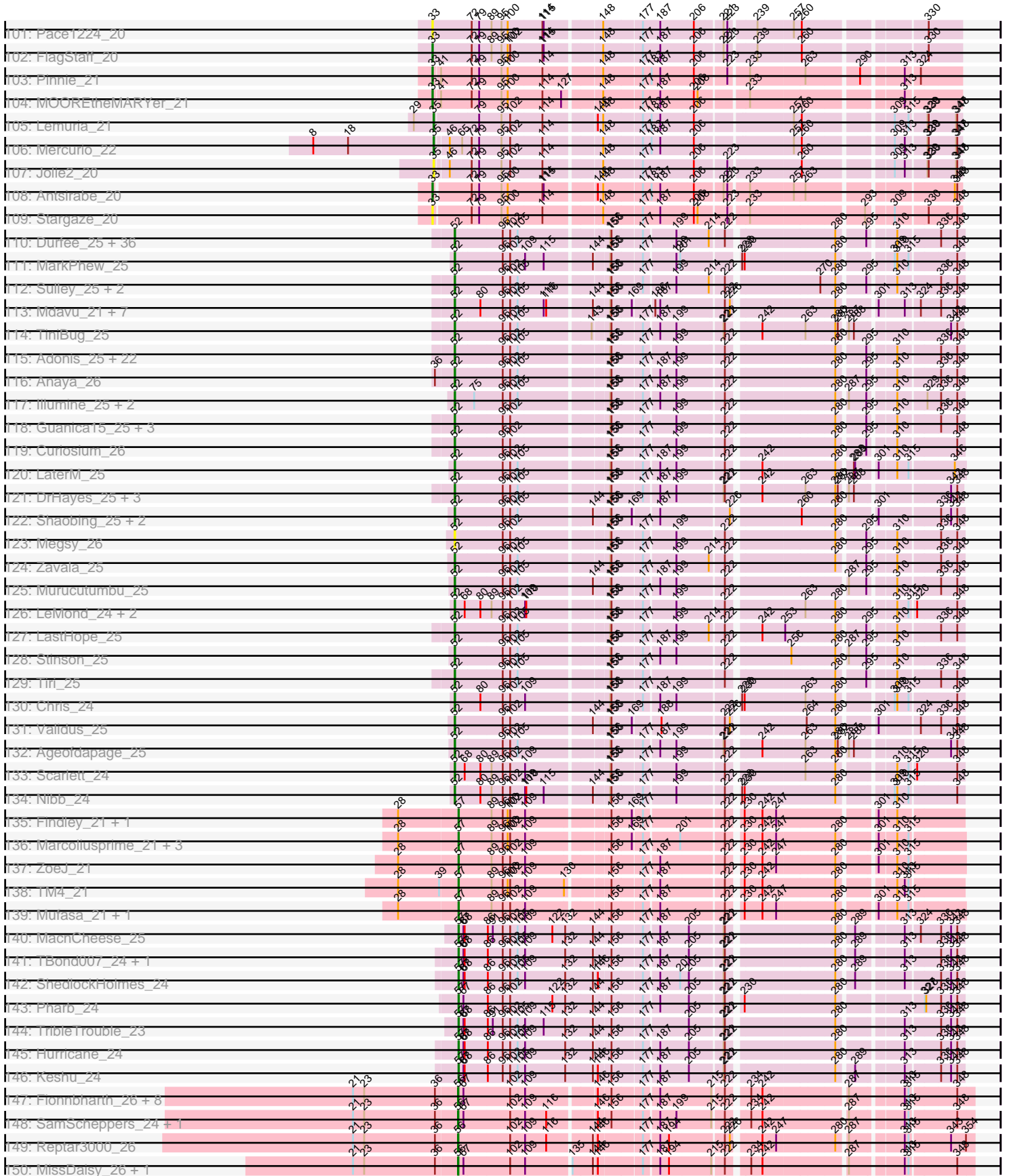


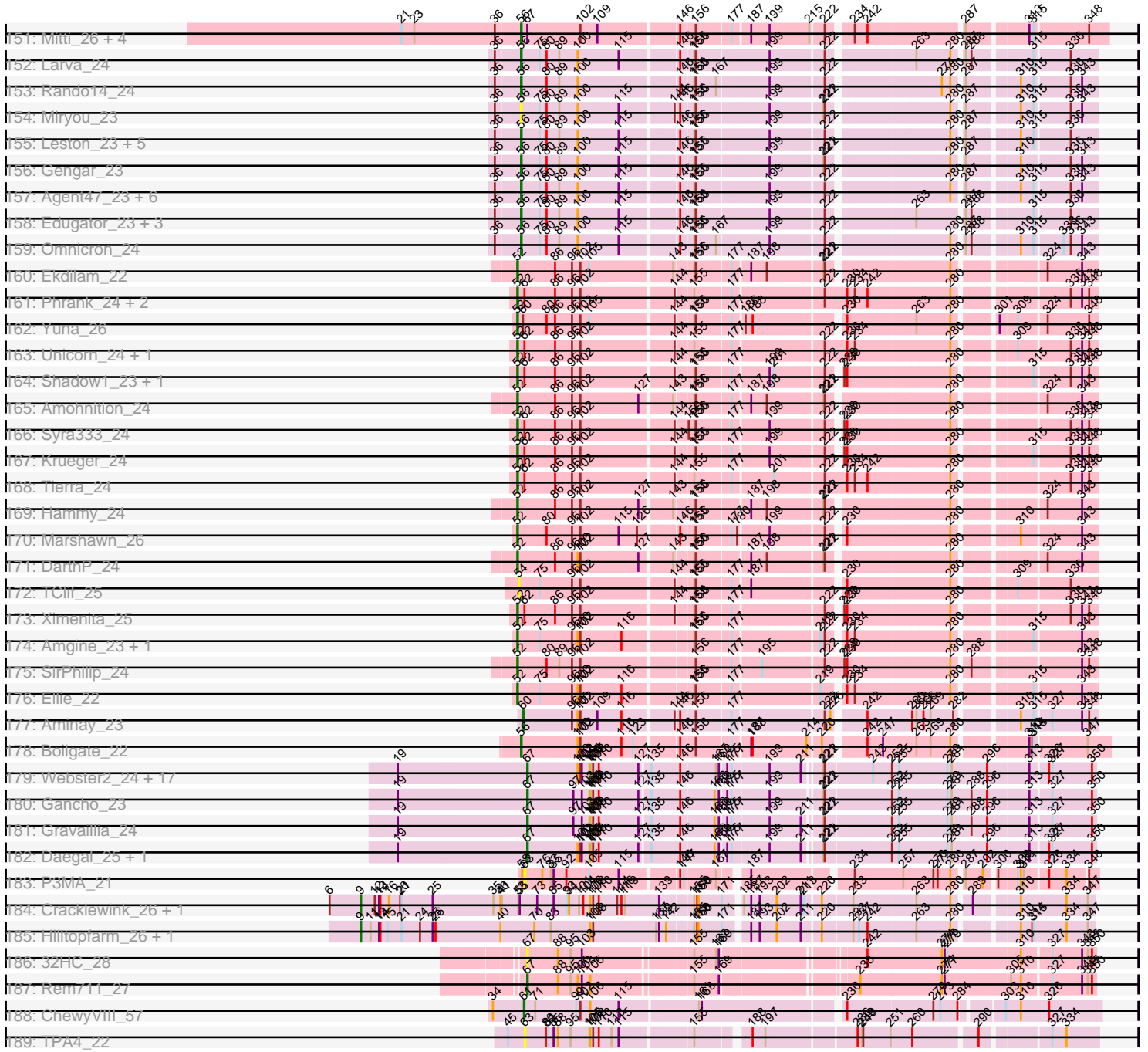
Pham 163254



Pham 163254



Pham 163254



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 163254 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163254 has 454 members, 36 are drafts.

Phages represented in each track:

- Track 1 : Maco6_21
- Track 2 : NoShow_20
- Track 3 : Muddy_23, FF47_23, 8UZL_23
- Track 4 : JacoRen57_19
- Track 5 : Nergal_24
- Track 6 : MalagasyRose_26
- Track 7 : JustASigh_20
- Track 8 : Weirdo19_21
- Track 9 : Miskis_57, ClubL_55, Bachita_57, Norvs_56, Abscondus_54, Smoothie_57, Toniann_55, Lozinak_56, Engineer_57, Dusty_53, PhinkBoden_55, Cucurbita_57, Aphelion_55
- Track 10 : WilliamBoone_55
- Track 11 : Culver_55
- Track 12 : OneUp_49
- Track 13 : BrutonGaster_44
- Track 14 : CoffeeBean_47, Maselop_46, Polyuyuki_46, Apiary_46, Braxoaddie_46
- Track 15 : GuyFagieri_46
- Track 16 : MacGully_53
- Track 17 : Flapper_46, GTE5_33
- Track 18 : GRU1_32
- Track 19 : Dalilpop_47
- Track 20 : Turuncu_46
- Track 21 : GTE8_31
- Track 22 : GrootJr_44, NovumRegina_42
- Track 23 : NosilaM_45
- Track 24 : Emianna_42, Kurt_42, Arti_42, NatB6_42, KidneyBean_42, Phomeo_41, Foxboro_43, Wheezy_42, Jifall16_41
- Track 25 : Outis_43, MerCougar_43, StarStruck_43
- Track 26 : Kabluna_45
- Track 27 : Bonum_45
- Track 28 : Buggaboo_43, SuperSulley_43
- Track 29 : Commandaria_44
- Track 30 : Tracker_42
- Track 31 : Ennea_48
- Track 32 : Skysand_44, Lollipop1437_47
- Track 33 : Patio_45
- Track 34 : Float294_44

- Track 35 : Yndexa_44, IDyn_43, BiPauneto_45, Sukkupi_44
- Track 36 : WhoseManz_44
- Track 37 : HubbaBubba_41
- Track 38 : Marietta_44
- Track 39 : NadineRae_42
- Track 40 : Pleakley_51, Fury_51
- Track 41 : Goib_27
- Track 42 : Huffy_28, DinoDaryn_28
- Track 43 : Banquo_30, TinaLin_29
- Track 44 : TZGordon_28
- Track 45 : Vendetta_26, Splinter_26
- Track 46 : Gspu1_24
- Track 47 : Dardanus_28
- Track 48 : Schmidt_24
- Track 49 : Catfish_26
- Track 50 : Blino_28, Jalammah_29, CarolAnn_28, Mellie_26
- Track 51 : KappaFarmDelta_29
- Track 52 : William_28
- Track 53 : Pipp_27
- Track 54 : JasperJr_27, Guacamole_27
- Track 55 : Samba_27, Hitter_27
- Track 56 : Fenry_26
- Track 57 : MintFen_27, CaptainKirk2_27, Archis_28, Melba_27, PhrostedPhlake_29, Delian_28, Wisp_26, BlingBling_27, Barco_27
- Track 58 : PrincePatrick_27, PCoral7_28, Toast_28
- Track 59 : Malachai_28, Begonia_28
- Track 60 : Obliviate_27
- Track 61 : Utz_27
- Track 62 : Lysidious_28
- Track 63 : JuJu_28
- Track 64 : Walrus_29
- Track 65 : Murp_28
- Track 66 : Petra_29
- Track 67 : MissRona_29, Gambino_29, Azula_29, Frokostdame_27, Blueberry_29
- Track 68 : UmaThurman_27
- Track 69 : Zarbodnamra_27
- Track 70 : Fairfaxidum_27
- Track 71 : ZiggyZoo_27
- Track 72 : Wocket_29
- Track 73 : Ghobes_25
- Track 74 : Sapo_24
- Track 75 : Archimedes_24
- Track 76 : Yvonnetastic_52
- Track 77 : JonJames_54
- Track 78 : Cardigan_54
- Track 79 : Parada_24, DelRio_25, Ayotoya_24, Hamood_24, Chop_24, Brylie_24, Mulch_24, NancyRae_24, WheatThin_24, Pimento_24, Nadeem_24, GrandSlam_24
- Track 80 : BetterKatz_24
- Track 81 : Bock_24
- Track 82 : Francois_24
- Track 83 : Bantam_36, SpeedDemon_380
- Track 84 : Mollymur_37
- Track 85 : Daredevil_35

- Track 86 : DatBoi_37
- Track 87 : Nyceirae_29
- Track 88 : Vordorf_28
- Track 89 : Ewald_28
- Track 90 : Dogfish_27
- Track 91 : Phishy_28
- Track 92 : Meyran_27
- Track 93 : DumpsterDude_21
- Track 94 : Ruthy_21
- Track 95 : BQuat_20, Crespo_20, Jane_20, BPs_20, LouisV14_20, Aroostook_20, Mowgli_20, Jonghyun_20, PinkYoshi_20, Phish_20, Remy19_20, CassieYates_20, BruceB_20, Sweets_20, Hope_20, Kareem_20, Frosty24_20, TomBrady_20, OctaviousRex_20, Renaissance_20, Gideon_20, Kasen3_20, Sizemore_20, Hotshotbaby7_20, JorRay_20, Phreak_20, CLED96_20, Coleslaw_20, Olga_20, DNAll_0020, Cedasite_20, Halo_20, Plagueis_20, Annihilator_20, Peeb_20, Cherrybomb426_20, Chance64_20, DMoney_20, ShaboiShabazz_20, Liefie_20, Gomashi_20, ECartman_20, Jolene_20, Angel_20, Zombie_20, Darionha_20, GoldenAsh_20, Camri_20, Marmie_20, Periodt_20, Avrafan_20, ZoMa_20, Schiebel_20
- Track 96 : Sneeze_20, Rabbs_20
- Track 97 : Taheera_20, Terror_20
- Track 98 : Barkley26_20, Grizzly_20
- Track 99 : Paito_20
- Track 100 : Cambiare_21, Avocado_20
- Track 101 : Pace1224_20
- Track 102 : FlagStaff_20
- Track 103 : Pinnie_21
- Track 104 : MOOREtheMARYer_21
- Track 105 : Lemuria_21
- Track 106 : Mercurio_22
- Track 107 : Jolie2_20
- Track 108 : Antsirabe_20
- Track 109 : Stargaze_20
- Track 110 : Durfee_25, Joy99_25, Dalmuri_25, Inky_25, Capricorn_25, Jeckyll_25, BGIlluvia_25, Ramen_25, Boiiii_25, Belladonna_25, Peel_25, Padfoot_25, Mynx_25, Asayake_25, AlishaPH_25, Twitch_25, Emerson_25, CaseJules_25, BarrelRoll_25, Llorens_25, BaghaKamala_25, Piatt_25, Apocalypse_25, JAWS_25, BEEST_25, Hyperbowlee_25, Jarvi_25, TruffulaTree_25, Spock_25, Topper_25, CREW_25, Padpat_25, Blizzard_25, Homura_25, Rosmarinus_25, ShiaSurprise_25, Lunahalos_25
- Track 111 : MarkPhew_25
- Track 112 : Sulley_25, Angelica_25, Deby_25
- Track 113 : Mdavu_21, Amelie_21, Nikao_21, LilPharaoh_21, Binglebops_21, Enkosi_21, SgtBeansprout_21, Nutello_21
- Track 114 : TiniBug_25
- Track 115 : Adonis_25, HedwigODU_25, TreyKay_25, Geraldini_25, MeaningOfLife_25, Veliki_25, Tachez_25, Prithvi_25, Zabiza_26, Rapunzel97_25, Pokerus_24, YoureAdopted_24, CheetoDust_25, Jayhawk_26, Ganymede_26, Adephagia_25, Beezoo_25, QuincyRose_24, Slimphazie_25, CrimD_25, LindNT_25, ActinUp_25, Atiba_25
- Track 116 : Anaya_26
- Track 117 : Illumine_25, Devera_25, Dole_25
- Track 118 : Guanica15_25, Yunkel11_25, TaiwanKao_26, Efra2_25

- Track 119 : Curiosium_26
- Track 120 : LaterM_25
- Track 121 : DrHayes_25, Urkel_25, Bella96_25, SamuelLPlaqson_25
- Track 122 : Shaobing_25, Peanam_25, Niklas_25
- Track 123 : Megsy_26
- Track 124 : Zavala_25
- Track 125 : Murucutumbu_25
- Track 126 : LeMond_24, KiSi_24, Oscar_24
- Track 127 : LastHope_25
- Track 128 : Stinson_25
- Track 129 : Tiri_25
- Track 130 : Chris_24
- Track 131 : Validus_25
- Track 132 : Ageofdapage_25
- Track 133 : Scarlett_24
- Track 134 : Nibb_24
- Track 135 : Findley_21, Strobilo_22
- Track 136 : Marcoliusprime_21, Milly_21, DismalStressor_21, DismalFunk_21
- Track 137 : ZoeJ_21
- Track 138 : TM4_21
- Track 139 : Mufasa_21, BoostSeason_21
- Track 140 : MacnCheese_25
- Track 141 : TBond007_24, Pixie_24
- Track 142 : ShedlockHolmes_24
- Track 143 : Pharb_24
- Track 144 : TripleTrouble_23
- Track 145 : Hurricane_24
- Track 146 : Keshu_24
- Track 147 : Fionnbharth_26, Y10_26, Juliette_26, JF1_26, Ruthiejr_25, Wintermute_26, Y2_26, Eponine_26, Malthus_27
- Track 148 : SamScheppers_24, Taquito_24
- Track 149 : Reptar3000_26
- Track 150 : MissDaisy_26, Patt_26
- Track 151 : Mitti_26, OmniCritical_26, Cheetobro_26, Chancellor_26, Slarp_26
- Track 152 : Larva_24
- Track 153 : Rando14_24
- Track 154 : Miryou_23
- Track 155 : Leston_23, SoSeph_23, Heftyboy_23, Paola_23, Guillsminger_23, OkiRoe_23
- Track 156 : Gengar_23
- Track 157 : Agent47_23, Collard_23, Feyre_23, Waterfoul_23, Kratio_22, Thyatira_23, InvictusManeo_23
- Track 158 : Edugator_23, Dadosky_24, Psycho_24, AlleyCat_24
- Track 159 : Omnicron_24
- Track 160 : Ekdilam_22
- Track 161 : Phrank_24, Bryler_24, Cain_24
- Track 162 : Yuna_26
- Track 163 : Unicorn_24, PhelpsODU_24
- Track 164 : Shadow1_23, Sunflower1121_23
- Track 165 : Amohnition_24
- Track 166 : Syra333_24
- Track 167 : Krueger_24
- Track 168 : Tierra_24

- Track 169 : Hammy_24
- Track 170 : Marshawn_26
- Track 171 : DarthP_24
- Track 172 : TClif_25
- Track 173 : Ximenita_25
- Track 174 : Amgine_23, Fefferhead_24
- Track 175 : SirPhilip_24
- Track 176 : Ellie_22
- Track 177 : Aminay_23
- Track 178 : Boilgate_22
- Track 179 : Webster2_24, Ein37_24, Amymech_24, Giles_24, LilHazelNut_24, Forge_24, Kinbote_24, Hadrien_24, Evanesce_24, HH92_24, Wishmaker_24, Dewey_24, Luke_24, Hail_24, Ubuntu_24, DeepSoil15_24, OBUpride_24, Luna22_24
- Track 180 : Gancho_23
- Track 181 : Gravaiilla_24
- Track 182 : Daegal_25, Amochick_24
- Track 183 : P3MA_21
- Track 184 : Cracklewink_26, Bipper_26
- Track 185 : Hilltopfarm_26, Typha_26
- Track 186 : 32HC_28
- Track 187 : Rem711_27
- Track 188 : ChewyVIII_57
- Track 189 : TPA4_22

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

The start number called the most often in the published annotations is 52, it was called in 120 of the 418 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_25, Adephegia_25, Adonis_25, Ageofdapage_25, AlishaPH_25, Amelie_21, Amgine_23, Amohnition_24, Anaya_26, Angelica_25, Apocalypse_25, Asayake_25, Atiba_25, BEEST_25, BGlluviae_25, BaghaKamala_25, BarrelRoll_25, Beezoo_25, Bella96_25, Belladonna_25, Biglebops_21, Blizzard_25, Boiii_25, Bryler_24, CREW_25, Cain_24, Capricorn_25, CaseJules_25, CheetoDust_25, Chris_24, CrimD_25, Curiosium_26, Dalmuri_25, DarthP_24, Deby_25, Devera_25, Dole_25, DrHayes_25, Durfee_25, Efra2_25, Ekdilam_22, Ellie_22, Emerson_25, Enkosi_21, Fefferhead_24, Ganymede_26, Geraldini_25, Guanica15_25, Hammy_24, HedwigODU_25, Homura_25, Hyperbowlee_25, Illumine_25, Inky_25, JAWS_25, Jarvi_25, Jayhawk_26, Jeckyll_25, Joy99_25, KiSi_24, Krueger_24, LastHope_25, LaterM_25, LeMond_24, LilPharaoh_21, LindNT_25, Llorens_25, Lunahalos_25, MarkPhew_25, Marshawn_26, Mdavu_21, MeaningOfLife_25, Megsy_26, Murucutumbu_25, Mynx_25, Nibb_24, Nikao_21, Niklas_25, Nutello_21, Oscar_24, Padfoot_25, Padpat_25, Peanam_25, Peel_25, PhelpsODU_24, Phrank_24, Piatt_25, Pokerus_24, Prithvi_25, QuincyRose_24, Ramen_25, Rapunzel97_25, Rosmarinus_25, SamuelLPlaqson_25, Scarlett_24, SgtBeansprout_21, Shadow1_23, Shaobing_25, ShiaSurprise_25, SirPhilip_24, Slimphazie_25, Spock_25, Stinson_25, Sulley_25, Sunflower1121_23, Syra333_24, Tachez_25, TaiwanKao_26, Tierra_24, TiniBug_25, Tiri_25, Topper_25, TreyKay_25,

TruffulaTree_25, Twitch_25, Unicorn_24, Urkel_25, Validus_25, Veliki_25, Ximenita_25, YoureAdopted_24, Yuna_26, Yunkel11_25, Zabiza_26, Zavala_25,

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

-

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

- 32HC_28, 8UZL_23, Abscondus_54, Agent47_23, AlleyCat_24, Aminay_23, Amochick_24, Amymech_24, Angel_20, Annihilator_20, Antsirabe_20, Aphelion_55, Apiary_46, Archimedes_24, Archis_28, Aroostook_20, Arti_42, Avocado_20, Avrafan_20, Ayotoya_24, Azula_29, BPs_20, BQuat_20, Bachita_57, Banquo_30, Bantam_36, Barco_27, Barkley26_20, Begonia_28, BetterKatz_24, BiPauneto_45, Bipper_26, BlingBling_27, Blino_28, Blueberry_29, Bock_24, Boilgate_22, Bonum_45, BoostSeason_21, Braxoaddie_46, BruceB_20, BrutonGaster_44, Brylie_24, Buggaboo_43, CLED96_20, Cambiare_21, Camri_20, CaptainKirk2_27, Cardigan_54, CarolAnn_28, CassieYates_20, Catfish_26, Cedasite_20, Chance64_20, Chancellor_26, Cheetobro_26, Cherrybomb426_20, ChewyVIII_57, Chop_24, ClubL_55, CoffeeBean_47, Coleslaw_20, Collard_23, Commandaria_44, Cracklewink_26, Crespo_20, Cucurbita_57, Culver_55, DMoney_20, DNAll_0020, Dadosky_24, Daegal_25, Dalilpop_47, Dardanus_28, Daredevil_35, Darionha_20, DatBoi_37, DeepSoil15_24, DelRio_25, Delian_28, Dewey_24, DinoDaryn_28, DismalFunk_21, DismalStressor_21, Dogfish_27, DumpsterDude_21, Dusty_53, ECartman_20, Edugator_23, Ein37_24, Emianna_42, Engineer_57, Ennea_48, Eponine_26, Evanesce_24, Ewald_28, FF47_23, Fairfaxidum_27, Fenry_26, Feyre_23, Findley_21, Fionnbharth_26, FlagStaff_20, Flapper_46, Float294_44, Forge_24, Foxboro_43, Francois_24, Frokostdame_27, Frosty24_20, Fury_51, GRU1_32, GTE5_33, GTE8_31, Gambino_29, Gancho_23, Gengar_23, Ghobes_25, Gideon_20, Giles_24, Goib_27, GoldenAsh_20, Gomashi_20, GrandSlam_24, Gravaiilia_24, Grizzly_20, GrootJr_44, Gspu1_24, Guacamole_27, Guillsminger_23, GuyFagieri_46, HH92_24, Hadrien_24, Hail_24, Halo_20, Hamood_24, Heftyboy_23, Hilltopfarm_26, Hitter_27, Hope_20, Hotshotbaby7_20, HubbaBubba_41, Huffy_28, Hurricane_24, IDyn_43, InvictusManeo_23, JF1_26, JacoRen57_19, Jalammah_29, Jane_20, JasperJr_27, Jifall16_41, Jolene_20, Jolie2_20, JonJames_54, Jonghyun_20, JorRay_20, JuJu_28, Juliette_26, JustASigh_20, Kabluna_45, KappaFarmDelta_29, Kareem_20, Kasen3_20, Keshu_24, KidneyBean_42, Kinbote_24, Kratio_22, Kurt_42, Larva_24, Lemuria_21, Leston_23, Liefie_20, LilHazelnut_24, Lollipop1437_47, LouisV14_20, Lozinak_56, Luke_24, Luna22_24, Lysidious_28, MOOREtheMARYer_21, MacGully_53, MacnCheese_25, Maco6_21, Malachai_28, MalagasyRose_26, Malthus_27, Marcoliusprime_21, Marietta_44, Marmie_20, Maselop_46, Melba_27, Mellie_26, MerCougar_43, Mercurio_22, Meyran_27, Milly_21, MintFen_27, Miryou_23, Miskis_57, MissDaisy_26, MissRona_29, Mitti_26, Mollymur_37, Mowgli_20, Muddy_23, Mufasa_21, Mulch_24, Murp_28, Nadeem_24, NadineRae_42, NancyRae_24, NatB6_42, Nergal_24, NoShow_20, Norvs_56, NosilaM_45, NovumRegina_42, Nyceirae_29, OBUpride_24, Obliviate_27, OctaviousRex_20, OkiRoe_23, Olga_20, OmniCritical_26, Omnicron_24, OneUp_49, Outis_43, P3MA_21, PCoral7_28, Pace1224_20, Paito_20, Paola_23, Parada_24, Patio_45, Patt_26, Peeb_20, Periodt_20, Petra_29, Pharb_24, PhinkBoden_55, Phish_20, Phishy_28, Phomeo_41, Phreak_20, PhrostedPhlake_29, Pimento_24, PinkYoshi_20, Pinnie_21, Pipp_27, Pixie_24, Plagueis_20, Pleakley_51, Polyyuki_46, PrincePatrick_27, Psycho_24, Rabbs_20, Rando14_24, Rem711_27, Remy19_20, Renaissance_20, Reptar3000_26, Ruthiejr_25, Ruthy_21, SamScheppers_24, Samba_27, Sapo_24, Schiebel_20, Schmidt_24, ShaboiShabazz_20, ShedlockHolmes_24, Sizemore_20, Skysand_44,

Slarp_26, Smoothie_57, Sneeze_20, SoSeph_23, SpeedDemon_380, Splinter_26, StarStruck_43, Stargaze_20, Strobilo_22, Sukkupi_44, SuperSulley_43, Sweets_20, TBond007_24, TClif_25, TM4_21, TPA4_22, TZGordon_28, Taheera_20, Taquito_24, Terror_20, Thyatira_23, TinaLin_29, Toast_28, TomBrady_20, Toniann_55, Tracker_42, TribbleTrouble_23, Turuncu_46, Typha_26, Ubuntu_24, UmaThurman_27, Utz_27, Vendetta_26, Vordorf_28, Walrus_29, Waterfoul_23, Webster2_24, Weirdo19_21, WheatThin_24, Wheezy_42, WhoseManz_44, WilliamBoone_55, William_28, Wintermute_26, Wishmaker_24, Wisp_26, Wocket_29, Y10_26, Y2_26, Yndexa_44, Yvonnestic_52, Zarbodnamra_27, ZiggyZoo_27, ZoMa_20, ZoeJ_21, Zombie_20,

Summary by start number:

Start 9:

- Found in 4 of 454 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bipper_26 (Y), Cracklewink_26 (Y), Hilltopfarm_26 (Y), Typha_26 (Y),

Start 33:

- Found in 68 of 454 (15.0%) of genes in pham
- Manual Annotations of this start: 64 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angel_20 (G1), Annihilator_20 (G1), Antsirabe_20 (G5), Aroostook_20 (G1), Avocado_20 (G2), Avrafan_20 (G1), BPs_20 (G1), BQuat_20 (G1), Barkley26_20 (G1), BruceB_20 (G1), CLED96_20 (G1), Cambiare_21 (G2), Camri_20 (G1), CassieYates_20 (G1), Cedasite_20 (G1), Chance64_20 (G1), Cherrybomb426_20 (G1), Coleslaw_20 (G1), Crespo_20 (G1), DMoney_20 (G1), DNAlll_0020 (G1), Darionha_20 (G1), ECartman_20 (G1), FlagStaff_20 (G2), Frosty24_20 (G1), Gideon_20 (G1), GoldenAsh_20 (G1), Gomashi_20 (G1), Grizzly_20 (G1), Halo_20 (G1), Hope_20 (G1), Hotshotbaby7_20 (G1), Jane_20 (G1), Jolene_20 (G1), Jonghyun_20 (G1), JorRay_20 (G1), Kareem_20 (G1), Kasen3_20 (G1), Liefie_20 (G1), LouisV14_20 (G1), MOOREtheMARYer_21 (G3), Marmie_20 (G1), Mowgli_20 (G1), OctaviousRex_20 (G1), Olga_20 (G1), Pace1224_20 (G2), Paito_20 (G1), Peeb_20 (G1), Periodt_20 (G1), Phish_20 (G1), Phreak_20 (G1), PinkYoshi_20 (G1), Pinnie_21 (G3), Plagueis_20 (G1), Rabbs_20 (G1), Remy19_20 (G1), Renaissance_20 (G1), Schiebel_20 (G1), ShaboiShabazz_20 (G1), Sizemore_20 (G1), Sneeze_20 (G1), Stargaze_20 (G5), Sweets_20 (G1), Taheera_20 (G1), Terror_20 (G1), TomBrady_20 (G1), ZoMa_20 (G1), Zombie_20 (G1),

Start 35:

- Found in 5 of 454 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 418
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Jolie2_20 (G4), Lemuria_21 (G4), Mercurio_22 (G4),

Start 37:

- Found in 1 of 454 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 418
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Nergal_24 (AG),

Start 38:

- Found in 1 of 454 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MalagasyRose_26 (AG),

Start 48:

- Found in 4 of 454 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_23 (AB), FF47_23 (AB), Maco6_21 (AB), Muddy_23 (AB),

Start 51:

- Found in 2 of 454 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fury_51 (CR5), Pleakley_51 (CR5),

Start 52:

- Found in 125 of 454 (27.5%) of genes in pham
- Manual Annotations of this start: 120 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ActinUp_25 (K1), Adephagia_25 (K1), Adonis_25 (K1), Ageofdapage_25 (K1), AlishaPH_25 (K1), Amelie_21 (K1), Amgine_23 (K6), Amohnition_24 (K6), Anaya_26 (K1), Angelica_25 (K1), Apocalypse_25 (K1), Asayake_25 (K1), Atiba_25 (K1), BEEST_25 (K1), BGIlluvia_25 (K1), BaghaKamala_25 (K1), BarrelRoll_25 (K1), Beezoo_25 (K1), Bella96_25 (K1), Belladonna_25 (K1), Binglebops_21 (K1), Blizzard_25 (K1), Boiiii_25 (K1), Bryler_24 (K6), CREW_25 (K1), Cain_24 (K6), Capricorn_25 (K1), CaseJules_25 (K1), CheetoDust_25 (K1), Chris_24 (K1), CrimD_25 (K1), Curiosium_26 (K1), Dalmuri_25 (K1), DARTH_24 (K6), Deby_25 (K1), Devera_25 (K1), Dole_25 (K1), DrHayes_25 (K1), Durfee_25 (K1), Efra2_25 (K1), Ekdilam_22 (K6), Ellie_22 (K6), Emerson_25 (K1), Enkosi_21 (K1), Fefferhead_24 (K6), Ganymede_26 (K1), Geraldini_25 (K1), Guanica15_25 (K1), Hammy_24 (K6), HedwigODU_25 (K1), Homura_25 (K1), Hyperbowlee_25 (K1), Illumine_25 (K1), Inky_25 (K1), JAWS_25 (K1), Jarvi_25 (K1), Jayhawk_26 (K1), Jeckyll_25 (K1), Joy99_25 (K1), KiSi_24 (K1), Krueger_24 (K6), LastHope_25 (K1), LaterM_25 (K1), LeMond_24 (K1), LilPharaoh_21 (K1), LindNT_25 (K1), Llorens_25 (K1), Lunahalos_25 (K1), MarkPhew_25 (K1), Marshawn_26 (K6), Mdavu_21 (K1), MeaningOfLife_25 (K1), Megsy_26 (K1), Murucutumbu_25 (K1), Mynx_25 (K1), Nibb_24 (K1), Nikao_21 (K1), Niklas_25 (K1), Nutello_21 (K1), Oscar_24 (K1), Padfoot_25 (K1), Padpat_25 (K1), Peanam_25 (K1), Peel_25 (K1), PhelpsODU_24 (K6), Phrank_24 (K6), Piatt_25 (K1), Pokerus_24 (K1), Prithvi_25 (K1), QuincyRose_24 (K1), Ramen_25 (K1), Rapunzel97_25 (K1), Rosmarinus_25 (K1), SamuelLPlaqson_25 (K1), Scarlett_24 (K1), SgtBeansprout_21 (K1), Shadow1_23 (K6), Shaobing_25 (K1), ShiaSurprise_25 (K1), SirPhilip_24 (K6), Slimphazie_25 (K1), Spock_25 (K1), Stinson_25 (K1), Sulley_25 (K1), Sunflower1121_23 (K6), Syra333_24 (K6), Tachez_25 (K1), TaiwanKao_26 (K1), Tierra_24 (K6), TiniBug_25 (K1), Tiri_25 (K1), Topper_25 (K1), TreyKay_25 (K1), TruffulaTree_25 (K1), Twitch_25 (K1), Unicorn_24 (K6), Urkel_25 (K1), Validus_25 (K1), Veliki_25 (K1),

Ximenita_25 (K6), YoureAdopted_24 (K1), Yuna_26 (K6), Yunkel11_25 (K1), Zabiza_26 (K1), Zavala_25 (K1),

Start 54:

- Found in 4 of 454 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 418
- Called 75.0% of time when present
- Phage (with cluster) where this start called: JustASigh_20 (AH), TClif_25 (K6), Weirido19_21 (AH),

Start 56:

- Found in 42 of 454 (9.3%) of genes in pham
- Manual Annotations of this start: 40 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agent47_23 (K5), AlleyCat_24 (K5), Boilgate_22 (K8), Chancellor_26 (K4), Cheetobro_26 (K4), Collard_23 (K5), Dadosky_24 (K5), Edugator_23 (K5), Eponine_26 (K4), Feyre_23 (K5), Fionnbharth_26 (K4), Gengar_23 (K5), Guillsminger_23 (K5), Heftyboy_23 (K5), InvictusManeo_23 (K5), JF1_26 (K4), Juliette_26 (K4), Kratio_22 (K5), Larva_24 (K5), Leston_23 (K5), Malthus_27 (K4), Miryou_23 (K5), MissDaisy_26 (K4), Mitti_26 (K4), OkiRoe_23 (K5), OmniCritical_26 (K4), Omnicron_24 (K5), Paola_23 (K5), Patt_26 (K4), Psycho_24 (K5), Rando14_24 (K5), Reptar3000_26 (K4), Ruthiejr_25 (K4), SamScheppers_24 (K4), Slarp_26 (K4), SoSeph_23 (K5), Taquito_24 (K4), Thyatira_23 (K5), Waterfoul_23 (K5), Wintermute_26 (K4), Y10_26 (K4), Y2_26 (K4),

Start 57:

- Found in 18 of 454 (4.0%) of genes in pham
- Manual Annotations of this start: 17 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_21 (K2), DismalFunk_21 (K2), DismalStressor_21 (K2), Findley_21 (K2), Hurricane_24 (K3), Keshu_24 (K3), MacnCheese_25 (K3), Marcoliusprime_21 (K2), Milly_21 (K2), Mufasa_21 (K2), Pharb_24 (K3), Pixie_24 (K3), ShedlockHolmes_24 (K3), Strobilo_22 (K2), TBond007_24 (K3), TM4_21 (K2), TripleTrouble_23 (K3), ZoeJ_21 (K2),

Start 58:

- Found in 47 of 454 (10.4%) of genes in pham
- Manual Annotations of this start: 44 of 418
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Archimedes_24 (DA), Archis_28 (CV), Azula_29 (CV), Barco_27 (CV), Begonia_28 (CV), BlingBling_27 (CV), Blino_28 (CV), Blueberry_29 (CV), CaptainKirk2_27 (CV), CarolAnn_28 (CV), Delian_28 (CV), Fairfaxidum_27 (CV), Fenry_26 (CV), Frokostdame_27 (CV), Gambino_29 (CV), Ghobes_25 (DA), Guacamole_27 (CV), Hitter_27 (CV), Jalammah_29 (CV), JasperJr_27 (CV), JuJu_28 (CV), KappaFarmDelta_29 (CV), Lysidious_28 (CV), Malachai_28 (CV), Melba_27 (CV), Mellie_26 (CV), MintFen_27 (CV), MissRona_29 (CV), Murp_28 (CV), Obliviate_27 (CV), PCoral7_28 (CV), Petra_29 (CV), PhrostedPhlake_29 (CV), Pipp_27 (CV), PrincePatrick_27 (CV), Samba_27 (CV), Sapo_24 (DA), Toast_28 (CV), UmaThurman_27 (CV), Utz_27 (CV), Walrus_29 (CV), William_28 (CV), Wisp_26 (CV), Wocket_29 (CV), Zarbodnamra_27 (CV), ZiggyZoo_27 (CV),

Start 59:

- Found in 1 of 454 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Catfish_26 (CU5),

Start 60:

- Found in 2 of 454 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 418
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Aminay_23 (K7),

Start 61:

- Found in 54 of 454 (11.9%) of genes in pham
- Manual Annotations of this start: 47 of 418
- Called 98.1% of time when present
- Phage (with cluster) where this start called: Apiary_46 (CR), Arti_42 (CR2), Banquo_30 (CU1), Bonum_45 (CR2), Braxoaddie_46 (CR), Buggaboo_43 (CR2), ChewyVIII_57 (singleton), CoffeeBean_47 (CR), Commandaria_44 (CR2), Dalipop_47 (CR1), Dardanus_28 (CU3), DinoDaryn_28 (CU1), Emianna_42 (CR2), Ennea_48 (CR3), Flapper_46 (CR1), Float294_44 (CR3), Foxboro_43 (CR2), GRU1_32 (CR1), GTE5_33 (CR1), GTE8_31 (CR2), Goib_27 (CU1), GrootJr_44 (CR2), Gspu1_24 (CU2), GuyFagieri_46 (CR), Huffy_28 (CU1), JacoRen57_19 (AB), Jifall16_41 (CR2), Kabluna_45 (CR2), KidneyBean_42 (CR2), Kurt_42 (CR2), Lollipop1437_47 (CR3), MacGully_53 (CR), Maselop_46 (CR), MerCougar_43 (CR2), NatB6_42 (CR2), NoShow_20 (AB), NosilaM_45 (CR2), NovumRegina_42 (CR2), Outis_43 (CR2), Patio_45 (CR3), Phomeo_41 (CR2), Polyuyuki_46 (CR), Schmidt_24 (CU4), Skysand_44 (CR3), Splinter_26 (CU1), StarStruck_43 (CR2), SuperSulley_43 (CR2), TZGordon_28 (CU1), TinaLin_29 (CU1), Tracker_42 (CR2), Turuncu_46 (CR1), Vendetta_26 (CU1), Wheezy_42 (CR2),

Start 63:

- Found in 21 of 454 (4.6%) of genes in pham
- Manual Annotations of this start: 15 of 418
- Called 90.5% of time when present
- Phage (with cluster) where this start called: Ayotoya_24 (DI), BetterKatz_24 (DI), Bock_24 (DI), Brylie_24 (DI), Chop_24 (DI), DelRio_25 (DI), DumpsterDude_21 (DW), Francois_24 (DI), GrandSlam_24 (DI), Hamood_24 (DI), Mulch_24 (DI), Nadeem_24 (DI), NancyRae_24 (DI), P3MA_21 (UNK), Parada_24 (DI), Pimento_24 (DI), Ruthy_21 (DW), TPA4_22 (singleton), WheatThin_24 (DI),

Start 64:

- Found in 25 of 454 (5.5%) of genes in pham
- Manual Annotations of this start: 21 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_54 (CQ), Aphelion_55 (CQ1), Bachita_57 (CQ1), Bantam_36 (DL), BrutonGaster_44 (CQ2), Cardigan_54 (DD), ClubL_55 (CQ1), Cucurbita_57 (CQ1), Culver_55 (CQ1), Daredevil_35 (DL), DatBoi_37 (DL), Dusty_53 (CQ), Engineer_57 (CQ1), JonJames_54 (DD), Lozinak_56 (CQ1), Miskis_57 (CQ), Mollymur_37 (DL), Norvs_56 (CQ), OneUp_49 (CQ2), PhinkBoden_55 (CQ1), Smoothie_57 (CQ1), SpeedDemon_380 (DL), Toniann_55 (CQ1), WilliamBoone_55 (CQ1), Yvonnetastic_52 (DD),

Start 66:

- Found in 8 of 454 (1.8%) of genes in pham
- Manual Annotations of this start: 7 of 418
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BiPauneto_45 (CR4), HubbaBubba_41 (CR4), IDyn_43 (CR4), Marietta_44 (CR4), NadineRae_42 (CR4), Sukkupi_44 (CR4), WhoseManz_44 (CR4), Yndexa_44 (CR4),

Start 67:

- Found in 50 of 454 (11.0%) of genes in pham
- Manual Annotations of this start: 23 of 418
- Called 48.0% of time when present
- Phage (with cluster) where this start called: 32HC_28 (Z), Amochick_24 (Q), Amymech_24 (Q), Daegal_25 (Q), DeepSoil15_24 (Q), Dewey_24 (Q), Ein37_24 (Q), Evanesce_24 (Q), Forge_24 (Q), Gancho_23 (Q), Giles_24 (Q), Gravaillia_24 (Q), HH92_24 (Q), Hadrien_24 (Q), Hail_24 (Q), Kinbote_24 (Q), LilHazelnut_24 (Q), Luke_24 (Q), Luna22_24 (Q), OBUpride_24 (Q), Rem711_27 (Z), Ubuntu_24 (Q), Webster2_24 (Q), Wishmaker_24 (Q),

Start 68:

- Found in 18 of 454 (4.0%) of genes in pham
- Manual Annotations of this start: 5 of 418
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Dogfish_27 (DT), Ewald_28 (DT), Meyran_27 (DT), Nyceirae_29 (DT), Phishy_28 (DT), Vordorf_28 (DT),

Summary by clusters:

There are 42 clusters represented in this pham: singleton, DI, DD, DL, DA, K3, K2, K1, K7, K6, K5, K4, DW, DT, K8, CU5, G4, G3, G2, G1, CU3, CQ2, CQ1, AB, AG, AH, G5, Q, CU4, Y, CR, CQ, UNK, CV, CU2, CR2, CR3, CR1, CU1, CR4, CR5, Z,

Info for manual annotations of cluster AB:

- Start number 48 was manually annotated 2 times for cluster AB.
- Start number 61 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AG:

- Start number 37 was manually annotated 1 time for cluster AG.
- Start number 38 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AH:

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

Info for manual annotations of cluster CQ:

- Start number 64 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 64 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 64 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CR:

- Start number 61 was manually annotated 6 times for cluster CR.

Info for manual annotations of cluster CR1:

- Start number 61 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 61 was manually annotated 20 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 61 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 66 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 51 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CU1:

- Start number 61 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 61 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 61 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 59 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CV:

- Start number 58 was manually annotated 41 times for cluster CV.

Info for manual annotations of cluster DA:

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

Info for manual annotations of cluster DD:

- Start number 64 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DI:

- Start number 63 was manually annotated 13 times for cluster DI.

Info for manual annotations of cluster DL:

- Start number 64 was manually annotated 5 times for cluster DL.

Info for manual annotations of cluster DT:

- Start number 68 was manually annotated 5 times for cluster DT.

Info for manual annotations of cluster DW:

- Start number 63 was manually annotated 2 times for cluster DW.

Info for manual annotations of cluster G1:

- Start number 33 was manually annotated 58 times for cluster G1.

Info for manual annotations of cluster G2:

- Start number 33 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 33 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 35 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 33 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster K1:

- Start number 52 was manually annotated 99 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 57 was manually annotated 9 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 57 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 56 was manually annotated 19 times for cluster K4.

Info for manual annotations of cluster K5:

- Start number 56 was manually annotated 20 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 52 was manually annotated 21 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 60 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 56 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster Q:

- Start number 67 was manually annotated 22 times for cluster Q.

Info for manual annotations of cluster Y:

- Start number 9 was manually annotated 4 times for cluster Y.

Info for manual annotations of cluster Z:

- Start number 67 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_28 Start: 21299, Stop: 22384, Start Num: 67

Candidate Starts for 32HC_28:

(Start: 67 @21299 has 23 MA's), (88, 21362), (95, 21389), (103, 21413), (155, 21617), (167, 21662), (169, 21668), (242, 21926), (274, 22079), (277, 22085), (279, 22091), (310, 22238), (327, 22295), (343, 22355), (347, 22367), (350, 22376),

Gene: 8UZL_23 Start: 18295, Stop: 19395, Start Num: 48

Candidate Starts for 8UZL_23:

(Start: 48 @18295 has 2 MA's), (69, 18331), (78, 18358), (82, 18370), (100, 18427), (108, 18460), (109, 18466), (123, 18538), (140, 18586), (205, 18817), (247, 18994), (256, 19027), (258, 19036), (260, 19051), (269, 19087), (286, 19141), (315, 19267), (327, 19306), (343, 19366), (350, 19387),

Gene: Abscondus_54 Start: 34012, Stop: 35094, Start Num: 64

Candidate Starts for Abscondus_54:

(Start: 64 @34012 has 21 MA's), (78, 34051), (85, 34072), (117, 34219), (145, 34309), (152, 34339), (170, 34399), (191, 34468), (254, 34705), (259, 34723), (265, 34756), (277, 34798), (297, 34891), (309, 34936), (328, 35011), (329, 35014), (345, 35074), (346, 35077),

Gene: ActinUp_25 Start: 19483, Stop: 20565, Start Num: 52

Candidate Starts for ActinUp_25:

(Start: 52 @19483 has 120 MA's), (96, 19591), (102, 19609), (105, 19627), (155, 19822), (156, 19825), (177, 19894), (199, 19966), (222, 20068), (280, 20302), (295, 20362), (310, 20416), (336, 20509), (348, 20548),

Gene: Adephagia_25 Start: 19480, Stop: 20562, Start Num: 52

Candidate Starts for Adephagia_25:

(Start: 52 @19480 has 120 MA's), (96, 19588), (102, 19606), (105, 19624), (155, 19819), (156, 19822), (177, 19891), (199, 19963), (222, 20065), (280, 20299), (295, 20359), (310, 20413), (336, 20506), (348, 20545),

Gene: Adonis_25 Start: 19486, Stop: 20568, Start Num: 52

Candidate Starts for Adonis_25:

(Start: 52 @19486 has 120 MA's), (96, 19594), (102, 19612), (105, 19630), (155, 19825), (156, 19828), (177, 19897), (199, 19969), (222, 20071), (280, 20305), (295, 20365), (310, 20419), (336, 20512), (348, 20551),

Gene: Agent47_23 Start: 19870, Stop: 20955, Start Num: 56

Candidate Starts for Agent47_23:

(36, 19819), (Start: 56 @19870 has 40 MA's), (75, 19906), (80, 19921), (89, 19945), (100, 19984), (115, 20068), (146, 20179), (155, 20203), (156, 20206), (199, 20353), (222, 20458), (280, 20692), (287, 20710), (310, 20806), (315, 20833), (336, 20899), (343, 20923),

Gene: Ageofdapage_25 Start: 19416, Stop: 20498, Start Num: 52

Candidate Starts for Ageofdapage_25:

(Start: 52 @19416 has 120 MA's), (96, 19524), (102, 19542), (105, 19560), (155, 19755), (156, 19758), (177, 19827), (187, 19860), (199, 19899), (221, 19998), (222, 20001), (242, 20070), (263, 20169), (280, 20235), (282, 20241), (287, 20253), (288, 20265), (343, 20469), (348, 20484),

Gene: AlishaPH_25 Start: 19473, Stop: 20555, Start Num: 52

Candidate Starts for AlishaPH_25:

(Start: 52 @19473 has 120 MA's), (96, 19581), (102, 19599), (105, 19617), (155, 19812), (156, 19815), (177, 19884), (199, 19956), (214, 20031), (222, 20058), (280, 20292), (295, 20352), (310, 20406), (336, 20499), (348, 20538),

Gene: AlleyCat_24 Start: 19807, Stop: 20892, Start Num: 56

Candidate Starts for AlleyCat_24:

(36, 19756), (Start: 56 @19807 has 40 MA's), (75, 19843), (80, 19858), (89, 19882), (100, 19921), (115, 20005), (146, 20116), (155, 20140), (156, 20143), (199, 20290), (222, 20395), (263, 20563), (287, 20647), (288, 20659), (315, 20770), (336, 20836),

Gene: Amelie_21 Start: 19023, Stop: 20105, Start Num: 52

Candidate Starts for Amelie_21:

(Start: 52 @19023 has 120 MA's), (80, 19080), (96, 19131), (102, 19149), (105, 19167), (115, 19227), (116, 19233), (144, 19332), (155, 19362), (156, 19365), (169, 19413), (186, 19455), (187, 19467), (222, 19608), (226, 19620), (280, 19842), (301, 19917), (313, 19974), (324, 20004), (336, 20049), (348, 20088),

Gene: Amgine_23 Start: 19572, Stop: 20654, Start Num: 52

Candidate Starts for Amgine_23:

(Start: 52 @19572 has 120 MA's), (75, 19614), (96, 19680), (100, 19692), (102, 19698), (116, 19782), (155, 19911), (156, 19914), (177, 19983), (219, 20148), (222, 20157), (230, 20184), (234, 20199), (280, 20391), (315, 20532), (343, 20622),

Gene: Aminay_23 Start: 19702, Stop: 20775, Start Num: 60

Candidate Starts for Aminay_23:

(Start: 60 @19702 has 1 MA's), (96, 19801), (100, 19813), (102, 19819), (109, 19852), (116, 19903), (144, 20002), (146, 20008), (156, 20035), (177, 20104), (222, 20278), (226, 20290), (242, 20347), (260, 20437), (263, 20446), (266, 20458), (269, 20473), (282, 20518), (310, 20626), (315, 20653), (327, 20683), (343, 20743), (348, 20758),

Gene: Amochick_24 Start: 19756, Stop: 20859, Start Num: 67

Candidate Starts for Amochick_24:

(19, 19486), (Start: 67 @19756 has 23 MA's), (100, 19861), (102, 19867), (103, 19870), (105, 19885), (106, 19888), (107, 19891), (108, 19894), (110, 19903), (127, 19987), (135, 20002), (146, 20053), (166, 20119), (169, 20128), (175, 20140), (177, 20149), (199, 20221), (211, 20284), (221, 20314), (222, 20317), (252, 20452), (255, 20467), (279, 20566), (281, 20575), (296, 20647), (313, 20731), (326, 20764), (327, 20770), (350, 20851),

Gene: Amohnition_24 Start: 19971, Stop: 21053, Start Num: 52

Candidate Starts for Amohnition_24:

(Start: 52 @19971 has 120 MA's), (86, 20043), (96, 20079), (102, 20097), (127, 20217), (143, 20277), (155, 20310), (156, 20313), (177, 20382), (187, 20415), (198, 20448), (221, 20553), (222, 20556), (280, 20790), (324, 20952), (343, 21021),

Gene: Amymech_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Amymech_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Anaya_26 Start: 19499, Stop: 20581, Start Num: 52

Candidate Starts for Anaya_26:

(36, 19457), (Start: 52 @19499 has 120 MA's), (96, 19607), (102, 19625), (105, 19643), (155, 19838), (156, 19841), (177, 19910), (187, 19943), (199, 19982), (222, 20084), (280, 20318), (295, 20378), (310, 20432), (336, 20525), (348, 20564),

Gene: Angel_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Angel_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Angelica_25 Start: 19448, Stop: 20530, Start Num: 52

Candidate Starts for Angelica_25:

(Start: 52 @19448 has 120 MA's), (96, 19556), (102, 19574), (105, 19592), (155, 19787), (156, 19790), (177, 19859), (199, 19931), (214, 20006), (222, 20033), (270, 20234), (280, 20267), (295, 20327), (310, 20381), (336, 20474), (348, 20513),

Gene: Annihilator_20 Start: 18852, Stop: 19988, Start Num: 33

Candidate Starts for Annihilator_20:

(18, 18648), (29, 18807), (Start: 33 @18852 has 64 MA's), (72, 18930), (74, 18933), (75, 18936), (79, 18948), (86, 18966), (95, 18999), (100, 19014), (114, 19095), (146, 19209), (148, 19221), (177, 19308), (183, 19329), (206, 19425), (227, 19503), (260, 19656), (287, 19749), (309, 19839), (324, 19893), (329, 19908), (330, 19911), (333, 19926), (346, 19971), (347, 19974),

Gene: Antsirabe_20 Start: 19236, Stop: 20375, Start Num: 33

Candidate Starts for Antsirabe_20:

(Start: 33 @19236 has 64 MA's), (72, 19317), (79, 19335), (95, 19386), (100, 19401), (114, 19482), (115, 19485), (146, 19596), (148, 19608), (177, 19695), (183, 19716), (187, 19737), (206, 19812), (221, 19872), (223, 19881), (233, 19923), (257, 20025), (263, 20052), (346, 20358), (348, 20364),

Gene: Aphelion_55 Start: 34281, Stop: 35363, Start Num: 64

Candidate Starts for Aphelion_55:

(Start: 64 @34281 has 21 MA's), (78, 34320), (85, 34341), (117, 34488), (145, 34578), (152, 34608), (170, 34668), (191, 34737), (254, 34974), (259, 34992), (265, 35025), (277, 35067), (297, 35160), (309, 35205), (328, 35280), (329, 35283), (345, 35343), (346, 35346),

Gene: Apiary_46 Start: 32958, Stop: 34064, Start Num: 61

Candidate Starts for Apiary_46:

(Start: 61 @32958 has 47 MA's), (102, 33057), (118, 33150), (120, 33153), (129, 33183), (154, 33288), (161, 33300), (172, 33351), (211, 33513), (214, 33525), (232, 33591), (259, 33699), (267, 33744), (269, 33750), (273, 33768), (277, 33777), (279, 33783), (303, 33879), (306, 33888), (310, 33903), (317, 33942),

Gene: Apocalypse_25 Start: 19451, Stop: 20533, Start Num: 52

Candidate Starts for Apocalypse_25:

(Start: 52 @19451 has 120 MA's), (96, 19559), (102, 19577), (105, 19595), (155, 19790), (156, 19793), (177, 19862), (199, 19934), (214, 20009), (222, 20036), (280, 20270), (295, 20330), (310, 20384), (336, 20477), (348, 20516),

Gene: Archimedes_24 Start: 20193, Stop: 21275, Start Num: 58

Candidate Starts for Archimedes_24:

(Start: 58 @20193 has 44 MA's), (90, 20271), (93, 20286), (95, 20292), (133, 20433), (136, 20442), (159, 20529), (174, 20589), (211, 20739), (258, 20913), (302, 21096), (309, 21120), (314, 21150), (350, 21267),

Gene: Archis_28 Start: 22530, Stop: 23597, Start Num: 58

Candidate Starts for Archis_28:

(Start: 58 @22530 has 44 MA's), (72, 22560), (90, 22608), (93, 22623), (105, 22665), (106, 22668), (108, 22674), (125, 22752), (129, 22761), (133, 22770), (146, 22830), (159, 22866), (179, 22944), (184, 22962), (186, 22968), (194, 23001), (200, 23016), (230, 23142), (255, 23238), (269, 23304), (279, 23334), (348, 23580),

Gene: Aroostook_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Aroostook_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Arti_42 Start: 31466, Stop: 32593, Start Num: 61

Candidate Starts for Arti_42:

(Start: 61 @31466 has 47 MA's), (102, 31571), (142, 31745), (163, 31820), (182, 31898), (190, 31931), (208, 32012), (216, 32057), (222, 32078), (231, 32111), (246, 32171), (335, 32525), (345, 32558),

Gene: Asayake_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Asayake_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Atiba_25 Start: 19443, Stop: 20525, Start Num: 52

Candidate Starts for Atiba_25:

(Start: 52 @19443 has 120 MA's), (96, 19551), (102, 19569), (105, 19587), (155, 19782), (156, 19785), (177, 19854), (199, 19926), (222, 20028), (280, 20262), (295, 20322), (310, 20376), (336, 20469), (348, 20508),

Gene: Avocado_20 Start: 19180, Stop: 20325, Start Num: 33

Candidate Starts for Avocado_20:

(Start: 33 @19180 has 64 MA's), (40, 19192), (72, 19267), (79, 19285), (89, 19312), (95, 19336), (100, 19351), (102, 19357), (114, 19432), (115, 19435), (148, 19558), (177, 19645), (183, 19666), (187, 19687), (206, 19762), (221, 19822), (223, 19831), (235, 19879), (239, 19891), (257, 19975), (260, 19993), (300, 20140), (330, 20248),

Gene: Avrafan_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Avrafan_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Ayotoya_24 Start: 20291, Stop: 21391, Start Num: 63

Candidate Starts for Ayotoya_24:

(Start: 63 @20291 has 15 MA's), (83, 20342), (105, 20423), (162, 20636), (169, 20672), (203, 20780), (227, 20867), (256, 21002), (264, 21038), (266, 21047), (274, 21083), (289, 21149), (298, 21194), (310, 21245), (315, 21272), (322, 21290), (345, 21368), (350, 21383),

Gene: Azula_29 Start: 22628, Stop: 23695, Start Num: 58

Candidate Starts for Azula_29:

(Start: 58 @22628 has 44 MA's), (72, 22658), (90, 22706), (93, 22721), (105, 22763), (106, 22766), (108, 22772), (129, 22859), (133, 22868), (146, 22928), (159, 22964), (164, 22985), (178, 23039), (184, 23060), (186, 23066), (194, 23099), (200, 23114), (230, 23240), (255, 23336), (267, 23396), (269, 23402), (279, 23432), (302, 23513), (348, 23678),

Gene: BEEST_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for BEEST_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: BGlluviae_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for BGlluviae_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: BPs_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for BPs_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: BQuat_20 Start: 18852, Stop: 19988, Start Num: 33

Candidate Starts for BQuat_20:

(18, 18648), (29, 18807), (Start: 33 @18852 has 64 MA's), (72, 18930), (74, 18933), (75, 18936), (79, 18948), (86, 18966), (95, 18999), (100, 19014), (114, 19095), (146, 19209), (148, 19221), (177, 19308), (183, 19329), (206, 19425), (227, 19503), (260, 19656), (287, 19749), (309, 19839), (324, 19893), (329, 19908), (330, 19911), (333, 19926), (346, 19971), (347, 19974),

Gene: Bachita_57 Start: 34714, Stop: 35796, Start Num: 64

Candidate Starts for Bachita_57:

(Start: 64 @34714 has 21 MA's), (78, 34753), (85, 34774), (117, 34921), (145, 35011), (152, 35041), (170, 35101), (191, 35170), (254, 35407), (259, 35425), (265, 35458), (277, 35500), (297, 35593), (309, 35638), (328, 35713), (329, 35716), (345, 35776), (346, 35779),

Gene: BaghaKamala_25 Start: 19443, Stop: 20525, Start Num: 52

Candidate Starts for BaghaKamala_25:

(Start: 52 @19443 has 120 MA's), (96, 19551), (102, 19569), (105, 19587), (155, 19782), (156, 19785), (177, 19854), (199, 19926), (214, 20001), (222, 20028), (280, 20262), (295, 20322), (310, 20376), (336, 20469), (348, 20508),

Gene: Banquo_30 Start: 20886, Stop: 22001, Start Num: 61

Candidate Starts for Banquo_30:

(Start: 61 @20886 has 47 MA's), (99, 20991), (117, 21090), (141, 21159), (143, 21177), (144, 21180), (168, 21270), (172, 21282), (220, 21477), (269, 21675), (276, 21699), (279, 21705), (297, 21780), (299, 21789), (308, 21825), (314, 21858), (333, 21924),

Gene: Bantam_36 Start: 31839, Stop: 32912, Start Num: 64

Candidate Starts for Bantam_36:

(Start: 64 @31839 has 21 MA's), (78, 31878), (101, 31950), (106, 31974), (117, 32043), (152, 32163), (170, 32223), (175, 32232), (176, 32235), (186, 32268), (209, 32361), (238, 32457), (313, 32775),

Gene: Barco_27 Start: 22319, Stop: 23386, Start Num: 58

Candidate Starts for Barco_27:

(Start: 58 @22319 has 44 MA's), (72, 22349), (90, 22397), (93, 22412), (105, 22454), (106, 22457), (108, 22463), (125, 22541), (129, 22550), (133, 22559), (146, 22619), (159, 22655), (179, 22733), (184, 22751), (186, 22757), (194, 22790), (200, 22805), (230, 22931), (255, 23027), (269, 23093), (279, 23123), (348, 23369),

Gene: Barkley26_20 Start: 18864, Stop: 20000, Start Num: 33

Candidate Starts for Barkley26_20:

(18, 18660), (29, 18819), (Start: 33 @18864 has 64 MA's), (72, 18942), (74, 18945), (75, 18948), (79, 18960), (86, 18978), (95, 19011), (100, 19026), (114, 19107), (146, 19221), (148, 19233), (177, 19320), (183, 19341), (206, 19437), (224, 19509), (227, 19515), (260, 19668), (288, 19773), (300, 19815), (309, 19851), (324, 19905), (329, 19920), (330, 19923), (346, 19983), (347, 19986),

Gene: BarrelRoll_25 Start: 19466, Stop: 20548, Start Num: 52

Candidate Starts for BarrelRoll_25:

(Start: 52 @19466 has 120 MA's), (96, 19574), (102, 19592), (105, 19610), (155, 19805), (156, 19808), (177, 19877), (199, 19949), (214, 20024), (222, 20051), (280, 20285), (295, 20345), (310, 20399), (336, 20492), (348, 20531),

Gene: Beezoo_25 Start: 19490, Stop: 20572, Start Num: 52

Candidate Starts for Beezoo_25:

(Start: 52 @19490 has 120 MA's), (96, 19598), (102, 19616), (105, 19634), (155, 19829), (156, 19832), (177, 19901), (199, 19973), (222, 20075), (280, 20309), (295, 20369), (310, 20423), (336, 20516), (348, 20555),

Gene: Begonia_28 Start: 22800, Stop: 23867, Start Num: 58

Candidate Starts for Begonia_28:

(Start: 58 @22800 has 44 MA's), (72, 22830), (90, 22878), (93, 22893), (105, 22935), (106, 22938), (108, 22944), (125, 23022), (129, 23031), (133, 23040), (146, 23100), (178, 23211), (184, 23232), (186, 23238), (194, 23271), (200, 23286), (230, 23412), (241, 23448), (255, 23508), (267, 23568), (269, 23574), (279, 23604), (302, 23685), (348, 23850),

Gene: Bella96_25 Start: 19410, Stop: 20492, Start Num: 52

Candidate Starts for Bella96_25:

(Start: 52 @19410 has 120 MA's), (96, 19518), (102, 19536), (105, 19554), (155, 19749), (156, 19752), (177, 19821), (187, 19854), (199, 19893), (221, 19992), (222, 19995), (242, 20064), (263, 20163), (280, 20229), (282, 20235), (287, 20247), (288, 20259), (343, 20463), (348, 20478),

Gene: Belladonna_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Belladonna_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: BetterKatz_24 Start: 19764, Stop: 20864, Start Num: 63

Candidate Starts for BetterKatz_24:

(Start: 63 @19764 has 15 MA's), (83, 19815), (100, 19872), (105, 19896), (162, 20109), (169, 20145), (203, 20253), (256, 20475), (264, 20511), (266, 20520), (274, 20556), (289, 20622), (298, 20667), (310, 20718), (315, 20745), (322, 20763), (345, 20841), (350, 20856),

Gene: BiPauneto_45 Start: 31223, Stop: 32338, Start Num: 66

Candidate Starts for BiPauneto_45:

(Start: 66 @31223 has 7 MA's), (80, 31265), (88, 31289), (102, 31325), (111, 31373), (120, 31421), (163, 31574), (211, 31781), (213, 31787), (220, 31817), (242, 31892), (259, 31967), (265, 32000), (272, 32033), (277, 32045), (315, 32201), (331, 32255), (335, 32270), (343, 32297),

Gene: Biglebops_21 Start: 19023, Stop: 20105, Start Num: 52

Candidate Starts for Biglebops_21:

(Start: 52 @19023 has 120 MA's), (80, 19080), (96, 19131), (102, 19149), (105, 19167), (115, 19227), (116, 19233), (144, 19332), (155, 19362), (156, 19365), (169, 19413), (186, 19455), (187, 19467), (222, 19608), (226, 19620), (280, 19842), (301, 19917), (313, 19974), (324, 20004), (336, 20049), (348, 20088),

Gene: Bipper_26 Start: 22137, Stop: 23567, Start Num: 9

Candidate Starts for Bipper_26:

(6, 22071), (Start: 9 @22137 has 4 MA's), (12, 22164), (13, 22173), (14, 22176), (16, 22194), (20, 22218), (21, 22221), (25, 22287), (Start: 35 @22416 has 2 MA's), (40, 22431), (41, 22434), (53, 22467), (55, 22470), (73, 22506), (85, 22533), (93, 22563), (94, 22566), (101, 22587), (104, 22596), (106, 22611), (108, 22617), (110, 22626), (114, 22665), (116, 22674), (119, 22680), (139, 22752), (155, 22815), (158, 22821), (160, 22824), (171, 22872), (185, 22899), (187, 22911), (193, 22929), (202, 22962), (211, 23013), (213, 23019), (220, 23046), (233, 23106), (263, 23235), (280, 23301), (289, 23334), (310, 23415), (334, 23511), (347, 23553),

Gene: BlingBling_27 Start: 22319, Stop: 23386, Start Num: 58

Candidate Starts for BlingBling_27:

(Start: 58 @22319 has 44 MA's), (72, 22349), (90, 22397), (93, 22412), (105, 22454), (106, 22457), (108, 22463), (125, 22541), (129, 22550), (133, 22559), (146, 22619), (159, 22655), (179, 22733), (184, 22751), (186, 22757), (194, 22790), (200, 22805), (230, 22931), (255, 23027), (269, 23093), (279, 23123), (348, 23369),

Gene: Blino_28 Start: 22410, Stop: 23477, Start Num: 58

Candidate Starts for Blino_28:

(Start: 58 @22410 has 44 MA's), (72, 22440), (90, 22488), (93, 22503), (105, 22545), (129, 22641), (133, 22650), (146, 22710), (159, 22746), (164, 22767), (178, 22821), (184, 22842), (186, 22848), (194, 22881), (200, 22896), (230, 23022), (255, 23118), (267, 23178), (269, 23184), (279, 23214), (348, 23460),

Gene: Blizzard_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Blizzard_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Blueberry_29 Start: 22628, Stop: 23695, Start Num: 58

Candidate Starts for Blueberry_29:

(Start: 58 @22628 has 44 MA's), (72, 22658), (90, 22706), (93, 22721), (105, 22763), (106, 22766), (108, 22772), (129, 22859), (133, 22868), (146, 22928), (159, 22964), (164, 22985), (178, 23039), (184, 23060), (186, 23066), (194, 23099), (200, 23114), (230, 23240), (255, 23336), (267, 23396), (269, 23402), (279, 23432), (302, 23513), (348, 23678),

Gene: Bock_24 Start: 19514, Stop: 20614, Start Num: 63

Candidate Starts for Bock_24:

(Start: 63 @19514 has 15 MA's), (83, 19565), (105, 19646), (162, 19859), (169, 19895), (203, 20003), (227, 20090), (256, 20225), (264, 20261), (266, 20270), (274, 20306), (285, 20351), (289, 20372),

(298, 20417), (310, 20468), (315, 20495), (322, 20513), (345, 20591), (350, 20606),

Gene: Boiiii_25 Start: 19516, Stop: 20598, Start Num: 52

Candidate Starts for Boiiii_25:

(Start: 52 @19516 has 120 MA's), (96, 19624), (102, 19642), (105, 19660), (155, 19855), (156, 19858), (177, 19927), (199, 19999), (214, 20074), (222, 20101), (280, 20335), (295, 20395), (310, 20449), (336, 20542), (348, 20581),

Gene: Boilgate_22 Start: 19853, Stop: 20956, Start Num: 56

Candidate Starts for Boilgate_22:

(Start: 56 @19853 has 40 MA's), (100, 19967), (102, 19973), (116, 20057), (123, 20081), (146, 20162), (156, 20189), (177, 20258), (187, 20291), (188, 20294), (214, 20405), (220, 20426), (242, 20501), (247, 20534), (263, 20600), (269, 20627), (280, 20666), (313, 20798), (314, 20804), (315, 20807), (347, 20909),

Gene: Bonum_45 Start: 31797, Stop: 32906, Start Num: 61

Candidate Starts for Bonum_45:

(Start: 61 @31797 has 47 MA's), (88, 31857), (118, 31986), (142, 32067), (159, 32133), (163, 32142), (192, 32259), (213, 32355), (214, 32361), (220, 32385), (234, 32433), (245, 32481), (254, 32517), (269, 32586), (272, 32601), (288, 32652), (310, 32742), (326, 32802),

Gene: BoostSeason_21 Start: 17365, Stop: 18444, Start Num: 57

Candidate Starts for BoostSeason_21:

(28, 17224), (Start: 57 @17365 has 17 MA's), (89, 17440), (96, 17467), (102, 17485), (109, 17518), (156, 17701), (177, 17770), (187, 17803), (222, 17944), (230, 17971), (242, 18013), (247, 18046), (280, 18178), (301, 18253), (310, 18292), (315, 18319),

Gene: Braxoaddie_46 Start: 32947, Stop: 34053, Start Num: 61

Candidate Starts for Braxoaddie_46:

(Start: 61 @32947 has 47 MA's), (102, 33046), (118, 33139), (120, 33142), (129, 33172), (154, 33277), (161, 33289), (172, 33340), (211, 33502), (214, 33514), (232, 33580), (259, 33688), (267, 33733), (269, 33739), (273, 33757), (277, 33766), (279, 33772), (303, 33868), (306, 33877), (310, 33892), (317, 33931),

Gene: BruceB_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for BruceB_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: BrutonGaster_44 Start: 31359, Stop: 32438, Start Num: 64

Candidate Starts for BrutonGaster_44:

(Start: 64 @31359 has 21 MA's), (106, 31494), (117, 31563), (145, 31653), (151, 31680), (269, 32118), (277, 32142),

Gene: Bryler_24 Start: 18649, Stop: 19752, Start Num: 52

Candidate Starts for Bryler_24:

(Start: 52 @18649 has 120 MA's), (62, 18664), (86, 18721), (96, 18757), (102, 18775), (144, 18958), (155, 18988), (177, 19060), (222, 19234), (230, 19282), (234, 19297), (242, 19324), (280, 19489), (336, 19696), (343, 19720), (348, 19735),

Gene: Brylie_24 Start: 19505, Stop: 20605, Start Num: 63

Candidate Starts for Brylie_24:

(Start: 63 @19505 has 15 MA's), (83, 19556), (105, 19637), (162, 19850), (169, 19886), (203, 19994), (227, 20081), (256, 20216), (264, 20252), (266, 20261), (274, 20297), (289, 20363), (298, 20408), (310, 20459), (315, 20486), (322, 20504), (345, 20582), (350, 20597),

Gene: Buggaboo_43 Start: 32276, Stop: 33385, Start Num: 61

Candidate Starts for Buggaboo_43:

(Start: 61 @32276 has 47 MA's), (88, 32336), (118, 32465), (120, 32468), (142, 32546), (159, 32612), (163, 32621), (213, 32834), (214, 32840), (220, 32864), (234, 32912), (245, 32960), (269, 33065), (272, 33080), (288, 33131), (310, 33221), (326, 33281),

Gene: CLED96_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for CLED96_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: CREW_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for CREW_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Cain_24 Start: 18637, Stop: 19740, Start Num: 52

Candidate Starts for Cain_24:

(Start: 52 @18637 has 120 MA's), (62, 18652), (86, 18709), (96, 18745), (102, 18763), (144, 18946), (155, 18976), (177, 19048), (222, 19222), (230, 19270), (234, 19285), (242, 19312), (280, 19477), (336, 19684), (343, 19708), (348, 19723),

Gene: Cambiare_21 Start: 19645, Stop: 20790, Start Num: 33

Candidate Starts for Cambiare_21:

(Start: 33 @19645 has 64 MA's), (40, 19657), (72, 19732), (79, 19750), (89, 19777), (95, 19801), (100, 19816), (102, 19822), (114, 19897), (115, 19900), (148, 20023), (177, 20110), (183, 20131), (187, 20152), (206, 20227), (221, 20287), (223, 20296), (235, 20344), (239, 20356), (257, 20440), (260, 20458), (300, 20605), (330, 20713),

Gene: Camri_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Camri_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Capricorn_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Capricorn_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: CaptainKirk2_27 Start: 22340, Stop: 23407, Start Num: 58

Candidate Starts for CaptainKirk2_27:

(Start: 58 @22340 has 44 MA's), (72, 22370), (90, 22418), (93, 22433), (105, 22475), (106, 22478), (108, 22484), (125, 22562), (129, 22571), (133, 22580), (146, 22640), (159, 22676), (179, 22754), (184, 22772), (186, 22778), (194, 22811), (200, 22826), (230, 22952), (255, 23048), (269, 23114), (279, 23144), (348, 23390),

Gene: Cardigan_54 Start: 37401, Stop: 38477, Start Num: 64

Candidate Starts for Cardigan_54:

(Start: 64 @37401 has 21 MA's), (93, 37491), (106, 37539), (117, 37608), (163, 37749), (176, 37800), (186, 37833), (191, 37857), (244, 38058), (269, 38163), (280, 38199), (301, 38289), (333, 38418), (343, 38454),

Gene: CarolAnn_28 Start: 22409, Stop: 23476, Start Num: 58

Candidate Starts for CarolAnn_28:

(Start: 58 @22409 has 44 MA's), (72, 22439), (90, 22487), (93, 22502), (105, 22544), (129, 22640), (133, 22649), (146, 22709), (159, 22745), (164, 22766), (178, 22820), (184, 22841), (186, 22847), (194, 22880), (200, 22895), (230, 23021), (255, 23117), (267, 23177), (269, 23183), (279, 23213), (348, 23459),

Gene: CaseJules_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for CaseJules_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: CassieYates_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for CassieYates_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Catfish_26 Start: 21557, Stop: 22666, Start Num: 59

Candidate Starts for Catfish_26:

(Start: 59 @21557 has 1 MA's), (Start: 61 @21560 has 47 MA's), (75, 21593), (83, 21617), (99, 21668), (112, 21734), (121, 21776), (144, 21857), (165, 21938), (168, 21947), (194, 22034), (196, 22040), (220, 22154), (223, 22163), (228, 22178), (238, 22208), (257, 22289), (269, 22346), (276, 22370), (313, 22514), (333, 22586), (335, 22595), (337, 22601), (340, 22613), (342, 22619), (349, 22643),

Gene: Cedasite_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Cedasite_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Chance64_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Chance64_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Chancellor_26 Start: 20936, Stop: 22033, Start Num: 56

Candidate Starts for Chancellor_26:

(21, 20687), (23, 20714), (36, 20885), (Start: 56 @20936 has 40 MA's), (Start: 67 @20948 has 23 MA's), (102, 21056), (109, 21089), (146, 21245), (156, 21272), (177, 21341), (187, 21374), (199, 21413), (215, 21491), (222, 21515), (234, 21557), (242, 21584), (287, 21767), (313, 21881), (315, 21890), (348, 21995),

Gene: CheetoDust_25 Start: 19491, Stop: 20573, Start Num: 52

Candidate Starts for CheetoDust_25:

(Start: 52 @19491 has 120 MA's), (96, 19599), (102, 19617), (105, 19635), (155, 19830), (156, 19833), (177, 19902), (199, 19974), (222, 20076), (280, 20310), (295, 20370), (310, 20424), (336, 20517), (348, 20556),

Gene: Cheetobro_26 Start: 20933, Stop: 22030, Start Num: 56

Candidate Starts for Cheetobro_26:

(21, 20684), (23, 20711), (36, 20882), (Start: 56 @20933 has 40 MA's), (Start: 67 @20945 has 23 MA's), (102, 21053), (109, 21086), (146, 21242), (156, 21269), (177, 21338), (187, 21371), (199, 21410), (215, 21488), (222, 21512), (234, 21554), (242, 21581), (287, 21764), (313, 21878), (315, 21887), (348, 21992),

Gene: Cherrybomb426_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Cherrybomb426_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: ChewyVIII_57 Start: 39792, Stop: 40907, Start Num: 61

Candidate Starts for ChewyVIII_57:

(34, 39729), (Start: 61 @39792 has 47 MA's), (71, 39816), (99, 39891), (102, 39900), (106, 39921), (115, 39981), (161, 40140), (163, 40146), (230, 40422), (270, 40596), (273, 40608), (284, 40644), (303, 40719), (310, 40743), (326, 40803),

Gene: Chop_24 Start: 20039, Stop: 21139, Start Num: 63

Candidate Starts for Chop_24:

(Start: 63 @20039 has 15 MA's), (83, 20090), (105, 20171), (162, 20384), (169, 20420), (203, 20528), (227, 20615), (256, 20750), (264, 20786), (266, 20795), (274, 20831), (289, 20897), (298, 20942), (310, 20993), (315, 21020), (322, 21038), (345, 21116), (350, 21131),

Gene: Chris_24 Start: 18745, Stop: 19827, Start Num: 52

Candidate Starts for Chris_24:

(Start: 52 @18745 has 120 MA's), (80, 18802), (96, 18853), (102, 18871), (109, 18904), (155, 19084), (156, 19087), (177, 19156), (187, 19189), (199, 19228), (228, 19351), (230, 19357), (263, 19498), (280, 19564), (309, 19672), (310, 19678), (315, 19705), (348, 19810),

Gene: ClubL_55 Start: 34203, Stop: 35285, Start Num: 64

Candidate Starts for ClubL_55:

(Start: 64 @34203 has 21 MA's), (78, 34242), (85, 34263), (117, 34410), (145, 34500), (152, 34530), (170, 34590), (191, 34659), (254, 34896), (259, 34914), (265, 34947), (277, 34989), (297, 35082), (309, 35127), (328, 35202), (329, 35205), (345, 35265), (346, 35268),

Gene: CoffeeBean_47 Start: 32905, Stop: 34011, Start Num: 61

Candidate Starts for CoffeeBean_47:

(Start: 61 @32905 has 47 MA's), (102, 33004), (118, 33097), (120, 33100), (129, 33130), (154, 33235), (161, 33247), (172, 33298), (211, 33460), (214, 33472), (232, 33538), (259, 33646), (267, 33691), (269, 33697), (273, 33715), (277, 33724), (279, 33730), (303, 33826), (306, 33835), (310, 33850), (317, 33889),

Gene: Coleslaw_20 Start: 18852, Stop: 19988, Start Num: 33

Candidate Starts for Coleslaw_20:

(18, 18648), (29, 18807), (Start: 33 @18852 has 64 MA's), (72, 18930), (74, 18933), (75, 18936), (79, 18948), (86, 18966), (95, 18999), (100, 19014), (114, 19095), (146, 19209), (148, 19221), (177, 19308), (183, 19329), (206, 19425), (227, 19503), (260, 19656), (287, 19749), (309, 19839), (324, 19893), (329, 19908), (330, 19911), (333, 19926), (346, 19971), (347, 19974),

Gene: Collard_23 Start: 19831, Stop: 20916, Start Num: 56

Candidate Starts for Collard_23:

(36, 19780), (Start: 56 @19831 has 40 MA's), (75, 19867), (80, 19882), (89, 19906), (100, 19945), (115, 20029), (146, 20140), (155, 20164), (156, 20167), (199, 20314), (222, 20419), (280, 20653), (287, 20671), (310, 20767), (315, 20794), (336, 20860), (343, 20884),

Gene: Commandaria_44 Start: 32797, Stop: 33921, Start Num: 61

Candidate Starts for Commandaria_44:

(Start: 61 @32797 has 47 MA's), (88, 32863), (102, 32899), (141, 33070), (142, 33073), (163, 33148), (181, 33223), (208, 33340), (231, 33439), (233, 33445), (244, 33493), (265, 33583), (277, 33628), (335, 33853), (345, 33886),

Gene: Cracklewink_26 Start: 22137, Stop: 23567, Start Num: 9

Candidate Starts for Cracklewink_26:

(6, 22071), (Start: 9 @22137 has 4 MA's), (12, 22164), (13, 22173), (14, 22176), (16, 22194), (20, 22218), (21, 22221), (25, 22287), (Start: 35 @22416 has 2 MA's), (40, 22431), (41, 22434), (53, 22467), (55, 22470), (73, 22506), (85, 22533), (93, 22563), (94, 22566), (101, 22587), (104, 22596), (106, 22611), (108, 22617), (110, 22626), (114, 22665), (116, 22674), (119, 22680), (139, 22752), (155, 22815), (158, 22821), (160, 22824), (171, 22872), (185, 22899), (187, 22911), (193, 22929), (202, 22962), (211, 23013), (213, 23019), (220, 23046), (233, 23106), (263, 23235), (280, 23301), (289, 23334), (310, 23415), (334, 23511), (347, 23553),

Gene: Crespo_20 Start: 18862, Stop: 19998, Start Num: 33

Candidate Starts for Crespo_20:

(18, 18658), (29, 18817), (Start: 33 @18862 has 64 MA's), (72, 18940), (74, 18943), (75, 18946), (79, 18958), (86, 18976), (95, 19009), (100, 19024), (114, 19105), (146, 19219), (148, 19231), (177, 19318), (183, 19339), (206, 19435), (227, 19513), (260, 19666), (287, 19759), (309, 19849), (324, 19903), (329, 19918), (330, 19921), (333, 19936), (346, 19981), (347, 19984),

Gene: CrimD_25 Start: 19452, Stop: 20534, Start Num: 52

Candidate Starts for CrimD_25:

(Start: 52 @19452 has 120 MA's), (96, 19560), (102, 19578), (105, 19596), (155, 19791), (156, 19794), (177, 19863), (199, 19935), (222, 20037), (280, 20271), (295, 20331), (310, 20385), (336, 20478), (348, 20517),

Gene: Cucurbita_57 Start: 35573, Stop: 36655, Start Num: 64

Candidate Starts for Cucurbita_57:

(Start: 64 @35573 has 21 MA's), (78, 35612), (85, 35633), (117, 35780), (145, 35870), (152, 35900), (170, 35960), (191, 36029), (254, 36266), (259, 36284), (265, 36317), (277, 36359), (297, 36452), (309, 36497), (328, 36572), (329, 36575), (345, 36635), (346, 36638),

Gene: Culver_55 Start: 34012, Stop: 35187, Start Num: 64

Candidate Starts for Culver_55:

(Start: 64 @34012 has 21 MA's), (102, 34129), (117, 34219), (131, 34252), (145, 34309), (151, 34336), (152, 34339), (192, 34471), (227, 34603), (238, 34636), (247, 34681), (277, 34798), (289, 34852), (297, 34891), (309, 34936), (327, 35008), (355, 35176),

Gene: Curiosium_26 Start: 19185, Stop: 20267, Start Num: 52

Candidate Starts for Curiosium_26:

(Start: 52 @19185 has 120 MA's), (96, 19293), (102, 19311), (155, 19524), (156, 19527), (177, 19596), (199, 19668), (222, 19770), (280, 20004), (295, 20064), (310, 20118), (348, 20250),

Gene: DMoney_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for DMoney_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: DNAlll_0020 Start: 18870, Stop: 20006, Start Num: 33

Candidate Starts for DNAlll_0020:

(18, 18666), (29, 18825), (Start: 33 @18870 has 64 MA's), (72, 18948), (74, 18951), (75, 18954), (79, 18966), (86, 18984), (95, 19017), (100, 19032), (114, 19113), (146, 19227), (148, 19239), (177, 19326), (183, 19347), (206, 19443), (227, 19521), (260, 19674), (287, 19767), (309, 19857), (324, 19911), (329, 19926), (330, 19929), (333, 19944), (346, 19989), (347, 19992),

Gene: Dadosky_24 Start: 19808, Stop: 20893, Start Num: 56

Candidate Starts for Dadosky_24:

(36, 19757), (Start: 56 @19808 has 40 MA's), (75, 19844), (80, 19859), (89, 19883), (100, 19922), (115, 20006), (146, 20117), (155, 20141), (156, 20144), (199, 20291), (222, 20396), (263, 20564), (287, 20648), (288, 20660), (315, 20771), (336, 20837),

Gene: Daegal_25 Start: 20044, Stop: 21147, Start Num: 67

Candidate Starts for Daegal_25:

(19, 19774), (Start: 67 @20044 has 23 MA's), (100, 20149), (102, 20155), (103, 20158), (105, 20173), (106, 20176), (107, 20179), (108, 20182), (110, 20191), (127, 20275), (135, 20290), (146, 20341), (166, 20407), (169, 20416), (175, 20428), (177, 20437), (199, 20509), (211, 20572), (221, 20602), (222, 20605), (252, 20740), (255, 20755), (279, 20854), (281, 20863), (296, 20935), (313, 21019), (326, 21052), (327, 21058), (350, 21139),

Gene: Dalilpop_47 Start: 33773, Stop: 34882, Start Num: 61

Candidate Starts for Dalilpop_47:

(Start: 61 @33773 has 47 MA's), (79, 33806), (87, 33830), (88, 33833), (213, 34331), (220, 34361), (315, 34745), (326, 34778),

Gene: Dalmuri_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Dalmuri_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Dardanus_28 Start: 19721, Stop: 20836, Start Num: 61

Candidate Starts for Dardanus_28:

(Start: 61 @19721 has 47 MA's), (117, 19928), (128, 19955), (143, 20015), (144, 20018), (157, 20063), (164, 20087), (165, 20099), (172, 20120), (194, 20195), (208, 20264), (220, 20315), (223, 20324), (249, 20429), (257, 20456), (259, 20462), (280, 20549), (290, 20591), (291, 20597), (309, 20660), (313, 20684), (315, 20693), (316, 20696), (333, 20756), (335, 20765),

Gene: Daredevil_35 Start: 30347, Stop: 31420, Start Num: 64

Candidate Starts for Daredevil_35:

(Start: 64 @30347 has 21 MA's), (92, 30434), (106, 30482), (176, 30743), (195, 30812), (265, 31085), (267, 31097), (330, 31340),

Gene: Darionha_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Darionha_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: DarthP_24 Start: 19917, Stop: 20999, Start Num: 52

Candidate Starts for DarthP_24:

(Start: 52 @19917 has 120 MA's), (86, 19989), (96, 20025), (100, 20037), (102, 20043), (127, 20163), (143, 20223), (155, 20256), (156, 20259), (187, 20361), (198, 20394), (221, 20499), (222, 20502), (280, 20736), (324, 20898), (343, 20967),

Gene: DatBoi_37 Start: 32569, Stop: 33642, Start Num: 64

Candidate Starts for DatBoi_37:

(Start: 64 @32569 has 21 MA's), (85, 32629), (106, 32704), (117, 32773), (152, 32893), (170, 32953), (193, 33028), (238, 33187), (279, 33358), (282, 33370), (314, 33511),

Gene: Deby_25 Start: 19448, Stop: 20530, Start Num: 52

Candidate Starts for Deby_25:

(Start: 52 @19448 has 120 MA's), (96, 19556), (102, 19574), (105, 19592), (155, 19787), (156, 19790), (177, 19859), (199, 19931), (214, 20006), (222, 20033), (270, 20234), (280, 20267), (295, 20327), (310, 20381), (336, 20474), (348, 20513),

Gene: DeepSoil15_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for DeepSoil15_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: DelRio_25 Start: 20513, Stop: 21613, Start Num: 63

Candidate Starts for DelRio_25:

(Start: 63 @20513 has 15 MA's), (83, 20564), (105, 20645), (162, 20858), (169, 20894), (203, 21002), (227, 21089), (256, 21224), (264, 21260), (266, 21269), (274, 21305), (289, 21371), (298, 21416), (310, 21467), (315, 21494), (322, 21512), (345, 21590), (350, 21605),

Gene: Delian_28 Start: 22338, Stop: 23405, Start Num: 58

Candidate Starts for Delian_28:

(Start: 58 @22338 has 44 MA's), (72, 22368), (90, 22416), (93, 22431), (105, 22473), (106, 22476), (108, 22482), (125, 22560), (129, 22569), (133, 22578), (146, 22638), (159, 22674), (179, 22752), (184, 22770), (186, 22776), (194, 22809), (200, 22824), (230, 22950), (255, 23046), (269, 23112),

(279, 23142), (348, 23388),

Gene: Devera_25 Start: 19496, Stop: 20578, Start Num: 52

Candidate Starts for Devera_25:

(Start: 52 @19496 has 120 MA's), (75, 19538), (96, 19604), (102, 19622), (105, 19640), (155, 19835), (156, 19838), (177, 19907), (187, 19940), (199, 19979), (222, 20081), (280, 20315), (287, 20333), (295, 20375), (310, 20429), (329, 20492), (336, 20522), (348, 20561),

Gene: Dewey_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Dewey_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: DinoDaryn_28 Start: 19747, Stop: 20865, Start Num: 61

Candidate Starts for DinoDaryn_28:

(Start: 61 @19747 has 47 MA's), (79, 19789), (94, 19837), (98, 19849), (102, 19861), (117, 19951), (143, 20038), (144, 20041), (166, 20125), (172, 20143), (194, 20218), (220, 20338), (256, 20473), (269, 20536), (276, 20560), (297, 20641), (299, 20650), (314, 20719), (315, 20722), (316, 20725), (333, 20785), (335, 20794),

Gene: DismalFunk_21 Start: 17339, Stop: 18418, Start Num: 57

Candidate Starts for DismalFunk_21:

(28, 17198), (Start: 57 @17339 has 17 MA's), (89, 17414), (96, 17441), (100, 17453), (102, 17459), (109, 17492), (156, 17675), (169, 17723), (177, 17744), (201, 17825), (222, 17918), (230, 17945), (242, 17987), (247, 18020), (280, 18152), (301, 18227), (310, 18266), (315, 18293),

Gene: DismalStressor_21 Start: 17339, Stop: 18418, Start Num: 57

Candidate Starts for DismalStressor_21:

(28, 17198), (Start: 57 @17339 has 17 MA's), (89, 17414), (96, 17441), (100, 17453), (102, 17459), (109, 17492), (156, 17675), (169, 17723), (177, 17744), (201, 17825), (222, 17918), (230, 17945), (242, 17987), (247, 18020), (280, 18152), (301, 18227), (310, 18266), (315, 18293),

Gene: Dogfish_27 Start: 22608, Stop: 23672, Start Num: 68

Candidate Starts for Dogfish_27:

(Start: 68 @22608 has 5 MA's), (79, 22641), (85, 22659), (96, 22698), (97, 22701), (108, 22743), (187, 23037), (199, 23076), (215, 23157), (217, 23163), (232, 23211), (238, 23229), (254, 23304), (266, 23355), (278, 23400), (280, 23403), (315, 23550), (327, 23580), (345, 23646), (351, 23664),

Gene: Dole_25 Start: 19498, Stop: 20580, Start Num: 52

Candidate Starts for Dole_25:

(Start: 52 @19498 has 120 MA's), (75, 19540), (96, 19606), (102, 19624), (105, 19642), (155, 19837), (156, 19840), (177, 19909), (187, 19942), (199, 19981), (222, 20083), (280, 20317), (287, 20335), (295, 20377), (310, 20431), (329, 20494), (336, 20524), (348, 20563),

Gene: DrHayes_25 Start: 19428, Stop: 20510, Start Num: 52

Candidate Starts for DrHayes_25:

(Start: 52 @19428 has 120 MA's), (96, 19536), (102, 19554), (105, 19572), (155, 19767), (156, 19770), (177, 19839), (187, 19872), (199, 19911), (221, 20010), (222, 20013), (242, 20082), (263, 20181), (280, 20247), (282, 20253), (287, 20265), (288, 20277), (343, 20481), (348, 20496),

Gene: DumpsterDude_21 Start: 18369, Stop: 19469, Start Num: 63

Candidate Starts for DumpsterDude_21:

(17, 18087), (27, 18195), (Start: 63 @18369 has 15 MA's), (96, 18465), (105, 18501), (146, 18675), (167, 18744), (169, 18750), (189, 18810), (221, 18927), (240, 19005), (263, 19113), (264, 19116), (266, 19125), (274, 19161), (279, 19173), (283, 19188), (310, 19323), (326, 19374), (327, 19380), (350, 19461),

Gene: Durfee_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Durfee_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Dusty_53 Start: 34012, Stop: 35094, Start Num: 64

Candidate Starts for Dusty_53:

(Start: 64 @34012 has 21 MA's), (78, 34051), (85, 34072), (117, 34219), (145, 34309), (152, 34339), (170, 34399), (191, 34468), (254, 34705), (259, 34723), (265, 34756), (277, 34798), (297, 34891), (309, 34936), (328, 35011), (329, 35014), (345, 35074), (346, 35077),

Gene: ECartman_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for ECartman_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Edugator_23 Start: 19807, Stop: 20892, Start Num: 56

Candidate Starts for Edugator_23:

(36, 19756), (Start: 56 @19807 has 40 MA's), (75, 19843), (80, 19858), (89, 19882), (100, 19921), (115, 20005), (146, 20116), (155, 20140), (156, 20143), (199, 20290), (222, 20395), (263, 20563), (287, 20647), (288, 20659), (315, 20770), (336, 20836),

Gene: Efra2_25 Start: 18684, Stop: 19766, Start Num: 52

Candidate Starts for Efra2_25:

(Start: 52 @18684 has 120 MA's), (96, 18792), (102, 18810), (155, 19023), (156, 19026), (177, 19095), (199, 19167), (222, 19269), (280, 19503), (295, 19563), (310, 19617), (336, 19710), (348, 19749),

Gene: Ein37_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Ein37_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Ekdilam_22 Start: 19682, Stop: 20764, Start Num: 52

Candidate Starts for Ekdilam_22:

(Start: 52 @19682 has 120 MA's), (86, 19754), (96, 19790), (102, 19808), (105, 19826), (143, 19988), (155, 20021), (156, 20024), (177, 20093), (187, 20126), (198, 20159), (221, 20264), (222, 20267), (280, 20501), (324, 20663), (343, 20732),

Gene: Ellie_22 Start: 19656, Stop: 20738, Start Num: 52

Candidate Starts for Ellie_22:

(Start: 52 @19656 has 120 MA's), (75, 19698), (96, 19764), (100, 19776), (102, 19782), (116, 19866), (155, 19995), (156, 19998), (177, 20067), (219, 20232), (230, 20268), (234, 20283), (280, 20475), (315, 20616), (343, 20706),

Gene: Emerson_25 Start: 19474, Stop: 20556, Start Num: 52

Candidate Starts for Emerson_25:

(Start: 52 @19474 has 120 MA's), (96, 19582), (102, 19600), (105, 19618), (155, 19813), (156, 19816), (177, 19885), (199, 19957), (214, 20032), (222, 20059), (280, 20293), (295, 20353), (310, 20407), (336, 20500), (348, 20539),

Gene: Emianna_42 Start: 32479, Stop: 33606, Start Num: 61

Candidate Starts for Emianna_42:

(Start: 61 @32479 has 47 MA's), (102, 32584), (142, 32758), (163, 32833), (182, 32911), (190, 32944), (208, 33025), (216, 33070), (222, 33091), (231, 33124), (246, 33184), (335, 33538), (345, 33571),

Gene: Engineer_57 Start: 34687, Stop: 35769, Start Num: 64

Candidate Starts for Engineer_57:

(Start: 64 @34687 has 21 MA's), (78, 34726), (85, 34747), (117, 34894), (145, 34984), (152, 35014), (170, 35074), (191, 35143), (254, 35380), (259, 35398), (265, 35431), (277, 35473), (297, 35566), (309, 35611), (328, 35686), (329, 35689), (345, 35749), (346, 35752),

Gene: Enkosi_21 Start: 19023, Stop: 20105, Start Num: 52

Candidate Starts for Enkosi_21:

(Start: 52 @19023 has 120 MA's), (80, 19080), (96, 19131), (102, 19149), (105, 19167), (115, 19227), (116, 19233), (144, 19332), (155, 19362), (156, 19365), (169, 19413), (186, 19455), (187, 19467), (222, 19608), (226, 19620), (280, 19842), (301, 19917), (313, 19974), (324, 20004), (336, 20049), (348, 20088),

Gene: Ennea_48 Start: 33125, Stop: 34234, Start Num: 61

Candidate Starts for Ennea_48:

(1, 32039), (2, 32072), (3, 32552), (Start: 61 @33125 has 47 MA's), (88, 33185), (107, 33245), (142, 33395), (172, 33515), (182, 33548), (195, 33596), (213, 33683), (220, 33713), (254, 33845), (257, 33857), (277, 33941), (315, 34097), (343, 34193),

Gene: Eponine_26 Start: 20826, Stop: 21923, Start Num: 56

Candidate Starts for Eponine_26:

(21, 20577), (23, 20604), (36, 20775), (Start: 56 @20826 has 40 MA's), (Start: 67 @20838 has 23 MA's), (102, 20946), (109, 20979), (146, 21135), (156, 21162), (177, 21231), (187, 21264), (215, 21381), (222, 21405), (234, 21447), (242, 21474), (287, 21657), (313, 21771), (315, 21780), (348, 21885),

Gene: Evanesce_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Evanesce_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Ewald_28 Start: 22994, Stop: 24058, Start Num: 68

Candidate Starts for Ewald_28:

(30, 22886), (Start: 68 @22994 has 5 MA's), (79, 23027), (85, 23045), (96, 23084), (97, 23087), (106, 23123), (108, 23129), (199, 23462), (217, 23549), (225, 23576), (232, 23597), (238, 23615), (254, 23690), (278, 23786), (280, 23789), (315, 23936), (327, 23966), (345, 24032), (351, 24050),

Gene: FF47_23 Start: 18222, Stop: 19322, Start Num: 48

Candidate Starts for FF47_23:

(Start: 48 @18222 has 2 MA's), (69, 18258), (78, 18285), (82, 18297), (100, 18354), (108, 18387), (109, 18393), (123, 18465), (140, 18513), (205, 18744), (247, 18921), (256, 18954), (258, 18963), (260, 18978), (269, 19014), (286, 19068), (315, 19194), (327, 19233), (343, 19293), (350, 19314),

Gene: Fairfaxidum_27 Start: 22634, Stop: 23698, Start Num: 58

Candidate Starts for Fairfaxidum_27:

(Start: 58 @22634 has 44 MA's), (90, 22712), (95, 22733), (106, 22772), (108, 22778), (146, 22934), (159, 22970), (164, 22991), (167, 23009), (184, 23063), (186, 23069), (200, 23117), (267, 23399), (269, 23405), (279, 23435), (314, 23570), (325, 23603), (343, 23666), (348, 23681), (350, 23687),

Gene: Fefferhead_24 Start: 19823, Stop: 20905, Start Num: 52

Candidate Starts for Fefferhead_24:

(Start: 52 @19823 has 120 MA's), (75, 19865), (96, 19931), (100, 19943), (102, 19949), (116, 20033), (155, 20162), (156, 20165), (177, 20234), (219, 20399), (222, 20408), (230, 20435), (234, 20450), (280, 20642), (315, 20783), (343, 20873),

Gene: Fenry_26 Start: 22038, Stop: 23105, Start Num: 58

Candidate Starts for Fenry_26:

(Start: 58 @22038 has 44 MA's), (72, 22068), (90, 22116), (93, 22131), (105, 22173), (129, 22269), (133, 22278), (146, 22338), (159, 22374), (164, 22395), (178, 22449), (184, 22470), (186, 22476), (192, 22503), (194, 22509), (200, 22524), (230, 22650), (255, 22746), (267, 22806), (269, 22812), (279, 22842), (348, 23088),

Gene: Feyre_23 Start: 19692, Stop: 20777, Start Num: 56

Candidate Starts for Feyre_23:

(36, 19641), (Start: 56 @19692 has 40 MA's), (75, 19728), (80, 19743), (89, 19767), (100, 19806), (115, 19890), (146, 20001), (155, 20025), (156, 20028), (199, 20175), (222, 20280), (280, 20514), (287, 20532), (310, 20628), (315, 20655), (336, 20721), (343, 20745),

Gene: Findley_21 Start: 17342, Stop: 18418, Start Num: 57

Candidate Starts for Findley_21:

(28, 17201), (Start: 57 @17342 has 17 MA's), (89, 17417), (96, 17444), (100, 17456), (102, 17462), (109, 17495), (156, 17678), (169, 17726), (177, 17747), (222, 17921), (230, 17948), (242, 17990), (247, 18023), (301, 18230), (310, 18269),

Gene: Fionnbharth_26 Start: 20926, Stop: 22023, Start Num: 56

Candidate Starts for Fionnbharth_26:

(21, 20677), (23, 20704), (36, 20875), (Start: 56 @20926 has 40 MA's), (Start: 67 @20938 has 23 MA's), (102, 21046), (109, 21079), (146, 21235), (156, 21262), (177, 21331), (187, 21364), (215, 21481), (222, 21505), (234, 21547), (242, 21574), (287, 21757), (313, 21871), (315, 21880), (348, 21985),

Gene: FlagStaff_20 Start: 19051, Stop: 20202, Start Num: 33

Candidate Starts for FlagStaff_20:

(Start: 33 @19051 has 64 MA's), (72, 19144), (79, 19162), (89, 19189), (95, 19213), (100, 19228), (102, 19234), (114, 19309), (115, 19312), (148, 19435), (177, 19522), (187, 19564), (206, 19639), (221, 19699), (223, 19708), (239, 19768), (260, 19870), (330, 20125),

Gene: Flapper_46 Start: 32840, Stop: 33949, Start Num: 61

Candidate Starts for Flapper_46:

(Start: 61 @32840 has 47 MA's), (87, 32897), (88, 32900), (213, 33398), (220, 33428), (315, 33812), (326, 33845), (343, 33908),

Gene: Float294_44 Start: 32567, Stop: 33676, Start Num: 61

Candidate Starts for Float294_44:

(1, 31481), (2, 31514), (3, 31994), (Start: 61 @32567 has 47 MA's), (88, 32627), (107, 32687), (142, 32837), (172, 32957), (182, 32990), (195, 33038), (213, 33125), (220, 33155), (257, 33299), (277, 33383), (315, 33539), (343, 33635),

Gene: Forge_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Forge_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Foxboro_43 Start: 32985, Stop: 34112, Start Num: 61

Candidate Starts for Foxboro_43:

(Start: 61 @32985 has 47 MA's), (102, 33090), (142, 33264), (163, 33339), (182, 33417), (190, 33450), (208, 33531), (216, 33576), (222, 33597), (231, 33630), (246, 33690), (335, 34044), (345, 34077),

Gene: Francois_24 Start: 19528, Stop: 20628, Start Num: 63

Candidate Starts for Francois_24:

(27, 19357), (Start: 63 @19528 has 15 MA's), (83, 19579), (105, 19660), (162, 19873), (169, 19909), (227, 20104), (254, 20233), (256, 20239), (264, 20275), (266, 20284), (274, 20320), (285, 20365), (298, 20431), (310, 20482), (315, 20509), (322, 20527), (345, 20605), (350, 20620),

Gene: Frokostdame_27 Start: 22282, Stop: 23349, Start Num: 58

Candidate Starts for Frokostdame_27:

(Start: 58 @22282 has 44 MA's), (72, 22312), (90, 22360), (93, 22375), (105, 22417), (106, 22420), (108, 22426), (129, 22513), (133, 22522), (146, 22582), (159, 22618), (164, 22639), (178, 22693), (184, 22714), (186, 22720), (194, 22753), (200, 22768), (230, 22894), (255, 22990), (267, 23050), (269, 23056), (279, 23086), (302, 23167), (348, 23332),

Gene: Frosty24_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Frosty24_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Fury_51 Start: 32338, Stop: 33456, Start Num: 51

Candidate Starts for Fury_51:

(Start: 51 @32338 has 2 MA's), (Start: 63 @32350 has 15 MA's), (88, 32407), (121, 32542), (126, 32563), (142, 32617), (164, 32704), (172, 32737), (191, 32806), (213, 32905), (231, 32974), (294, 33229), (310, 33292), (343, 33415), (344, 33418), (345, 33421),

Gene: GRU1_32 Start: 24740, Stop: 25849, Start Num: 61

Candidate Starts for GRU1_32:

(Start: 61 @24740 has 47 MA's), (88, 24800), (213, 25298), (220, 25328), (315, 25712), (326, 25745), (331, 25766),

Gene: GTE5_33 Start: 25695, Stop: 26804, Start Num: 61

Candidate Starts for GTE5_33:

(Start: 61 @25695 has 47 MA's), (87, 25752), (88, 25755), (213, 26253), (220, 26283), (315, 26667), (326, 26700), (343, 26763),

Gene: GTE8_31 Start: 25738, Stop: 26865, Start Num: 61

Candidate Starts for GTE8_31:

(Start: 61 @25738 has 47 MA's), (102, 25843), (142, 26017), (163, 26092), (182, 26170), (190, 26203), (208, 26284), (216, 26329), (231, 26383), (246, 26443), (335, 26797), (345, 26830),

Gene: Gambino_29 Start: 22628, Stop: 23695, Start Num: 58

Candidate Starts for Gambino_29:

(Start: 58 @22628 has 44 MA's), (72, 22658), (90, 22706), (93, 22721), (105, 22763), (106, 22766), (108, 22772), (129, 22859), (133, 22868), (146, 22928), (159, 22964), (164, 22985), (178, 23039), (184, 23060), (186, 23066), (194, 23099), (200, 23114), (230, 23240), (255, 23336), (267, 23396), (269, 23402), (279, 23432), (302, 23513), (348, 23678),

Gene: Gancho_23 Start: 19474, Stop: 20577, Start Num: 67

Candidate Starts for Gancho_23:

(19, 19204), (Start: 67 @19474 has 23 MA's), (97, 19570), (103, 19588), (105, 19603), (106, 19606), (107, 19609), (108, 19612), (110, 19621), (127, 19705), (135, 19720), (146, 19771), (166, 19837), (169, 19846), (175, 19858), (177, 19867), (199, 19939), (221, 20032), (222, 20035), (252, 20170), (255, 20185), (279, 20284), (281, 20293), (288, 20332), (296, 20365), (313, 20449), (327, 20488), (350, 20569),

Gene: Ganymede_26 Start: 19494, Stop: 20576, Start Num: 52

Candidate Starts for Ganymede_26:

(Start: 52 @19494 has 120 MA's), (96, 19602), (102, 19620), (105, 19638), (155, 19833), (156, 19836), (177, 19905), (199, 19977), (222, 20079), (280, 20313), (295, 20373), (310, 20427), (336, 20520), (348, 20559),

Gene: Gengar_23 Start: 19799, Stop: 20884, Start Num: 56

Candidate Starts for Gengar_23:

(36, 19748), (Start: 56 @19799 has 40 MA's), (75, 19835), (80, 19850), (89, 19874), (100, 19913), (115, 19997), (146, 20108), (155, 20132), (156, 20135), (199, 20282), (221, 20384), (222, 20387), (280, 20621), (287, 20639), (310, 20735), (336, 20828), (343, 20852),

Gene: Geraldini_25 Start: 19490, Stop: 20572, Start Num: 52

Candidate Starts for Geraldini_25:

(Start: 52 @19490 has 120 MA's), (96, 19598), (102, 19616), (105, 19634), (155, 19829), (156, 19832), (177, 19901), (199, 19973), (222, 20075), (280, 20309), (295, 20369), (310, 20423), (336, 20516), (348, 20555),

Gene: Ghobes_25 Start: 20324, Stop: 21406, Start Num: 58

Candidate Starts for Ghobes_25:

(Start: 58 @20324 has 44 MA's), (77, 20366), (95, 20423), (114, 20516), (140, 20582), (151, 20645), (174, 20720), (184, 20756), (186, 20762), (191, 20786), (194, 20795), (200, 20810), (210, 20864), (211, 20870), (214, 20882), (236, 20957), (241, 20972), (242, 20975), (257, 21041), (302, 21227), (309, 21251), (315, 21284), (321, 21308), (350, 21398),

Gene: Gideon_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Gideon_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Giles_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Giles_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Goib_27 Start: 19531, Stop: 20649, Start Num: 61

Candidate Starts for Goib_27:

(Start: 61 @19531 has 47 MA's), (79, 19573), (94, 19621), (98, 19633), (117, 19735), (143, 19822), (144, 19825), (166, 19909), (172, 19927), (194, 20002), (220, 20122), (255, 20254), (256, 20257), (269, 20320), (276, 20344), (297, 20425), (299, 20434), (309, 20473), (312, 20491), (314, 20503), (315, 20506), (316, 20509), (333, 20569),

Gene: GoldenAsh_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for GoldenAsh_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Gomashi_20 Start: 18862, Stop: 19998, Start Num: 33

Candidate Starts for Gomashi_20:

(18, 18658), (29, 18817), (Start: 33 @18862 has 64 MA's), (72, 18940), (74, 18943), (75, 18946), (79, 18958), (86, 18976), (95, 19009), (100, 19024), (114, 19105), (146, 19219), (148, 19231), (177, 19318), (183, 19339), (206, 19435), (227, 19513), (260, 19666), (287, 19759), (309, 19849), (324, 19903), (329, 19918), (330, 19921), (333, 19936), (346, 19981), (347, 19984),

Gene: GrandSlam_24 Start: 20039, Stop: 21139, Start Num: 63

Candidate Starts for GrandSlam_24:

(Start: 63 @20039 has 15 MA's), (83, 20090), (105, 20171), (162, 20384), (169, 20420), (203, 20528), (227, 20615), (256, 20750), (264, 20786), (266, 20795), (274, 20831), (289, 20897), (298, 20942), (310, 20993), (315, 21020), (322, 21038), (345, 21116), (350, 21131),

Gene: Gravaillia_24 Start: 19480, Stop: 20583, Start Num: 67

Candidate Starts for Gravaillia_24:

(19, 19210), (Start: 67 @19480 has 23 MA's), (97, 19576), (103, 19594), (105, 19609), (106, 19612), (107, 19615), (108, 19618), (110, 19627), (127, 19711), (135, 19726), (146, 19777), (166, 19843), (169, 19852), (175, 19864), (177, 19873), (199, 19945), (211, 20008), (221, 20038), (222, 20041), (252, 20176), (255, 20191), (279, 20290), (281, 20299), (288, 20338), (296, 20371), (313, 20455), (327, 20494), (350, 20575),

Gene: Grizzly_20 Start: 18864, Stop: 20000, Start Num: 33

Candidate Starts for Grizzly_20:

(18, 18660), (29, 18819), (Start: 33 @18864 has 64 MA's), (72, 18942), (74, 18945), (75, 18948), (79, 18960), (86, 18978), (95, 19011), (100, 19026), (114, 19107), (146, 19221), (148, 19233), (177, 19320), (183, 19341), (206, 19437), (224, 19509), (227, 19515), (260, 19668), (288, 19773), (300, 19815), (309, 19851), (324, 19905), (329, 19920), (330, 19923), (346, 19983), (347, 19986),

Gene: GrootJr_44 Start: 31861, Stop: 32988, Start Num: 61

Candidate Starts for GrootJr_44:

(Start: 61 @31861 has 47 MA's), (102, 31966), (138, 32122), (163, 32215), (182, 32293), (190, 32326), (208, 32407), (216, 32452), (222, 32473), (227, 32488), (231, 32506), (246, 32566), (335, 32920), (345, 32953),

Gene: Gspu1_24 Start: 18864, Stop: 19922, Start Num: 61

Candidate Starts for Gspu1_24:

(Start: 61 @18864 has 47 MA's), (82, 18915), (98, 18966), (106, 18999), (117, 19068), (118, 19071), (144, 19158), (157, 19197), (164, 19221), (165, 19233), (172, 19254), (188, 19314), (196, 19335), (218, 19440), (220, 19449), (223, 19458), (241, 19515), (248, 19554), (256, 19584), (257, 19590), (259, 19596), (269, 19647), (276, 19671), (288, 19710), (299, 19761), (304, 19782), (309, 19800), (313, 19824), (315, 19833), (316, 19836), (333, 19896), (335, 19905), (338, 19914),

Gene: Guacamole_27 Start: 22323, Stop: 23390, Start Num: 58

Candidate Starts for Guacamole_27:

(Start: 58 @22323 has 44 MA's), (72, 22353), (90, 22401), (93, 22416), (105, 22458), (106, 22461), (108, 22467), (125, 22545), (129, 22554), (133, 22563), (146, 22623), (159, 22659), (164, 22680), (178, 22734), (184, 22755), (186, 22761), (194, 22794), (200, 22809), (230, 22935), (255, 23031), (267, 23091), (269, 23097), (279, 23127), (348, 23373),

Gene: Guanica15_25 Start: 18700, Stop: 19782, Start Num: 52

Candidate Starts for Guanica15_25:

(Start: 52 @18700 has 120 MA's), (96, 18808), (102, 18826), (155, 19039), (156, 19042), (177, 19111), (199, 19183), (222, 19285), (280, 19519), (295, 19579), (310, 19633), (336, 19726), (348, 19765),

Gene: Guillsminger_23 Start: 19774, Stop: 20859, Start Num: 56

Candidate Starts for Guillsminger_23:

(36, 19723), (Start: 56 @19774 has 40 MA's), (75, 19810), (80, 19825), (89, 19849), (100, 19888), (115, 19972), (146, 20083), (155, 20107), (156, 20110), (199, 20257), (222, 20362), (280, 20596), (287, 20614), (310, 20710), (315, 20737), (336, 20803),

Gene: GuyFagieri_46 Start: 32782, Stop: 33885, Start Num: 61

Candidate Starts for GuyFagieri_46:

(Start: 61 @32782 has 47 MA's), (102, 32878), (118, 32971), (120, 32974), (129, 33004), (172, 33172), (181, 33202), (182, 33205), (211, 33334), (232, 33412), (267, 33565), (269, 33571), (273, 33589), (277, 33598), (279, 33604), (303, 33700), (310, 33724),

Gene: HH92_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for HH92_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Hadrien_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Hadrien_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Hail_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Hail_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Halo_20 Start: 18856, Stop: 19992, Start Num: 33

Candidate Starts for Halo_20:

(18, 18652), (29, 18811), (Start: 33 @18856 has 64 MA's), (72, 18934), (74, 18937), (75, 18940), (79, 18952), (86, 18970), (95, 19003), (100, 19018), (114, 19099), (146, 19213), (148, 19225), (177, 19312), (183, 19333), (206, 19429), (227, 19507), (260, 19660), (287, 19753), (309, 19843), (324, 19897), (329, 19912), (330, 19915), (333, 19930), (346, 19975), (347, 19978),

Gene: Hammy_24 Start: 19914, Stop: 20996, Start Num: 52

Candidate Starts for Hammy_24:

(Start: 52 @19914 has 120 MA's), (86, 19986), (96, 20022), (102, 20040), (127, 20160), (143, 20220), (155, 20253), (156, 20256), (187, 20358), (198, 20391), (221, 20496), (222, 20499), (280, 20733), (324, 20895), (343, 20964),

Gene: Hamood_24 Start: 20039, Stop: 21139, Start Num: 63

Candidate Starts for Hamood_24:

(Start: 63 @20039 has 15 MA's), (83, 20090), (105, 20171), (162, 20384), (169, 20420), (203, 20528), (227, 20615), (256, 20750), (264, 20786), (266, 20795), (274, 20831), (289, 20897), (298, 20942), (310, 20993), (315, 21020), (322, 21038), (345, 21116), (350, 21131),

Gene: HedwigODU_25 Start: 19483, Stop: 20565, Start Num: 52

Candidate Starts for HedwigODU_25:

(Start: 52 @19483 has 120 MA's), (96, 19591), (102, 19609), (105, 19627), (155, 19822), (156, 19825), (177, 19894), (199, 19966), (222, 20068), (280, 20302), (295, 20362), (310, 20416), (336, 20509), (348, 20548),

Gene: Heftyboy_23 Start: 19922, Stop: 21007, Start Num: 56

Candidate Starts for Heftyboy_23:

(36, 19871), (Start: 56 @19922 has 40 MA's), (75, 19958), (80, 19973), (89, 19997), (100, 20036), (115, 20120), (146, 20231), (155, 20255), (156, 20258), (199, 20405), (222, 20510), (280, 20744), (287, 20762), (310, 20858), (315, 20885), (336, 20951),

Gene: Hilltopfarm_26 Start: 22020, Stop: 23459, Start Num: 9

Candidate Starts for Hilltopfarm_26:

(Start: 9 @22020 has 4 MA's), (11, 22041), (13, 22059), (14, 22062), (15, 22077), (21, 22107), (24, 22146), (25, 22173), (26, 22179), (40, 22317), (70, 22386), (83, 22419), (106, 22503), (108, 22509), (137, 22638), (139, 22644), (142, 22659), (155, 22707), (158, 22713), (160, 22716), (171, 22764), (187, 22803), (193, 22821), (202, 22854), (211, 22905), (220, 22938), (233, 22998), (237, 23010), (242, 23028), (263, 23127), (280, 23193), (310, 23307), (314, 23331), (315, 23334), (334, 23403),

(347, 23445),

Gene: Hitter_27 Start: 22319, Stop: 23386, Start Num: 58

Candidate Starts for Hitter_27:

(Start: 58 @22319 has 44 MA's), (72, 22349), (90, 22397), (93, 22412), (105, 22454), (129, 22550), (133, 22559), (146, 22619), (159, 22655), (164, 22676), (179, 22733), (184, 22751), (186, 22757), (194, 22790), (200, 22805), (230, 22931), (255, 23027), (267, 23087), (269, 23093), (279, 23123), (348, 23369),

Gene: Homura_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Homura_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Hope_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Hope_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Hotshotbaby7_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Hotshotbaby7_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: HubbaBubba_41 Start: 28235, Stop: 29350, Start Num: 66

Candidate Starts for HubbaBubba_41:

(Start: 66 @28235 has 7 MA's), (80, 28277), (88, 28301), (102, 28337), (111, 28385), (120, 28433), (163, 28586), (211, 28793), (213, 28799), (259, 28979), (265, 29012), (272, 29045), (277, 29057), (315, 29213), (331, 29267), (335, 29282), (343, 29309),

Gene: Huffu_28 Start: 19747, Stop: 20865, Start Num: 61

Candidate Starts for Huffu_28:

(Start: 61 @19747 has 47 MA's), (79, 19789), (94, 19837), (98, 19849), (102, 19861), (117, 19951), (143, 20038), (144, 20041), (166, 20125), (172, 20143), (194, 20218), (220, 20338), (256, 20473), (269, 20536), (276, 20560), (297, 20641), (299, 20650), (314, 20719), (315, 20722), (316, 20725), (333, 20785), (335, 20794),

Gene: Hurricane_24 Start: 19911, Stop: 20999, Start Num: 57

Candidate Starts for Hurricane_24:

(Start: 57 @19911 has 17 MA's), (Start: 67 @19923 has 23 MA's), (Start: 68 @19926 has 5 MA's), (86, 19977), (96, 20013), (102, 20031), (105, 20049), (109, 20064), (132, 20160), (144, 20226), (156, 20259), (177, 20328), (187, 20361), (205, 20427), (221, 20499), (222, 20502), (280, 20736), (313, 20868), (336, 20943), (343, 20967), (348, 20982),

Gene: Hyperbowlee_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Hyperbowlee_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310,

20447), (336, 20540), (348, 20579),

Gene: IDyn_43 Start: 29631, Stop: 30746, Start Num: 66

Candidate Starts for IDyn_43:

(Start: 66 @29631 has 7 MA's), (80, 29673), (88, 29697), (102, 29733), (111, 29781), (120, 29829), (163, 29982), (211, 30189), (213, 30195), (220, 30225), (242, 30300), (259, 30375), (265, 30408), (272, 30441), (277, 30453), (315, 30609), (331, 30663), (335, 30678), (343, 30705),

Gene: Illumine_25 Start: 19498, Stop: 20580, Start Num: 52

Candidate Starts for Illumine_25:

(Start: 52 @19498 has 120 MA's), (75, 19540), (96, 19606), (102, 19624), (105, 19642), (155, 19837), (156, 19840), (177, 19909), (187, 19942), (199, 19981), (222, 20083), (280, 20317), (287, 20335), (295, 20377), (310, 20431), (329, 20494), (336, 20524), (348, 20563),

Gene: Inky_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Inky_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: InvictusManeo_23 Start: 19874, Stop: 20959, Start Num: 56

Candidate Starts for InvictusManeo_23:

(36, 19823), (Start: 56 @19874 has 40 MA's), (75, 19910), (80, 19925), (89, 19949), (100, 19988), (115, 20072), (146, 20183), (155, 20207), (156, 20210), (199, 20357), (222, 20462), (280, 20696), (287, 20714), (310, 20810), (315, 20837), (336, 20903), (343, 20927),

Gene: JAWS_25 Start: 19468, Stop: 20550, Start Num: 52

Candidate Starts for JAWS_25:

(Start: 52 @19468 has 120 MA's), (96, 19576), (102, 19594), (105, 19612), (155, 19807), (156, 19810), (177, 19879), (199, 19951), (214, 20026), (222, 20053), (280, 20287), (295, 20347), (310, 20401), (336, 20494), (348, 20533),

Gene: JF1_26 Start: 20925, Stop: 22022, Start Num: 56

Candidate Starts for JF1_26:

(21, 20676), (23, 20703), (36, 20874), (Start: 56 @20925 has 40 MA's), (Start: 67 @20937 has 23 MA's), (102, 21045), (109, 21078), (146, 21234), (156, 21261), (177, 21330), (187, 21363), (215, 21480), (222, 21504), (234, 21546), (242, 21573), (287, 21756), (313, 21870), (315, 21879), (348, 21984),

Gene: JacoRen57_19 Start: 17743, Stop: 18843, Start Num: 61

Candidate Starts for JacoRen57_19:

(Start: 61 @17743 has 47 MA's), (80, 17791), (96, 17842), (100, 17854), (103, 17863), (108, 17887), (153, 18073), (209, 18283), (212, 18298), (258, 18481), (267, 18526), (274, 18553), (280, 18571), (307, 18673), (308, 18676), (315, 18712), (318, 18727), (345, 18817),

Gene: Jalammah_29 Start: 23113, Stop: 24180, Start Num: 58

Candidate Starts for Jalammah_29:

(Start: 58 @23113 has 44 MA's), (72, 23143), (90, 23191), (93, 23206), (105, 23248), (129, 23344), (133, 23353), (146, 23413), (159, 23449), (164, 23470), (178, 23524), (184, 23545), (186, 23551), (194, 23584), (200, 23599), (230, 23725), (255, 23821), (267, 23881), (269, 23887), (279, 23917), (348, 24163),

Gene: Jane_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Jane_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Jarvi_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Jarvi_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: JasperJr_27 Start: 22323, Stop: 23390, Start Num: 58

Candidate Starts for JasperJr_27:

(Start: 58 @22323 has 44 MA's), (72, 22353), (90, 22401), (93, 22416), (105, 22458), (106, 22461), (108, 22467), (125, 22545), (129, 22554), (133, 22563), (146, 22623), (159, 22659), (164, 22680), (178, 22734), (184, 22755), (186, 22761), (194, 22794), (200, 22809), (230, 22935), (255, 23031), (267, 23091), (269, 23097), (279, 23127), (348, 23373),

Gene: Jayhawk_26 Start: 19481, Stop: 20563, Start Num: 52

Candidate Starts for Jayhawk_26:

(Start: 52 @19481 has 120 MA's), (96, 19589), (102, 19607), (105, 19625), (155, 19820), (156, 19823), (177, 19892), (199, 19964), (222, 20066), (280, 20300), (295, 20360), (310, 20414), (336, 20507), (348, 20546),

Gene: Jeckyll_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Jeckyll_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Jifall16_41 Start: 32133, Stop: 33260, Start Num: 61

Candidate Starts for Jifall16_41:

(Start: 61 @32133 has 47 MA's), (102, 32238), (142, 32412), (163, 32487), (182, 32565), (190, 32598), (208, 32679), (216, 32724), (222, 32745), (231, 32778), (246, 32838), (335, 33192), (345, 33225),

Gene: Jolene_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Jolene_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Jolie2_20 Start: 18194, Stop: 19330, Start Num: 35

Candidate Starts for Jolie2_20:

(Start: 35 @18194 has 2 MA's), (46, 18221), (72, 18272), (79, 18290), (95, 18341), (102, 18362), (114, 18437), (148, 18563), (177, 18650), (206, 18767), (223, 18836), (260, 18998), (309, 19181), (313, 19205), (329, 19250), (330, 19253), (347, 19316), (348, 19319),

Gene: JonJames_54 Start: 38302, Stop: 39378, Start Num: 64

Candidate Starts for JonJames_54:

(Start: 64 @38302 has 21 MA's), (93, 38392), (106, 38440), (117, 38509), (163, 38650), (176, 38701), (186, 38734), (244, 38959), (269, 39064), (280, 39100), (301, 39190), (326, 39289), (343, 39355),

Gene: Jonghyun_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Jonghyun_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: JorRay_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for JorRay_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Joy99_25 Start: 19443, Stop: 20525, Start Num: 52

Candidate Starts for Joy99_25:

(Start: 52 @19443 has 120 MA's), (96, 19551), (102, 19569), (105, 19587), (155, 19782), (156, 19785), (177, 19854), (199, 19926), (214, 20001), (222, 20028), (280, 20262), (295, 20322), (310, 20376), (336, 20469), (348, 20508),

Gene: JuJu_28 Start: 22382, Stop: 23449, Start Num: 58

Candidate Starts for JuJu_28:

(Start: 58 @22382 has 44 MA's), (72, 22412), (90, 22460), (93, 22475), (95, 22481), (106, 22520), (129, 22613), (146, 22682), (159, 22718), (184, 22814), (186, 22820), (192, 22847), (200, 22868), (269, 23156), (279, 23186), (329, 23363), (348, 23432),

Gene: Juliette_26 Start: 20826, Stop: 21923, Start Num: 56

Candidate Starts for Juliette_26:

(21, 20577), (23, 20604), (36, 20775), (Start: 56 @20826 has 40 MA's), (Start: 67 @20838 has 23 MA's), (102, 20946), (109, 20979), (146, 21135), (156, 21162), (177, 21231), (187, 21264), (215, 21381), (222, 21405), (234, 21447), (242, 21474), (287, 21657), (313, 21771), (315, 21780), (348, 21885),

Gene: JustASigh_20 Start: 18675, Stop: 19814, Start Num: 54

Candidate Starts for JustASigh_20:

(Start: 54 @18675 has 1 MA's), (84, 18744), (103, 18807), (107, 18828), (167, 19071), (172, 19080), (187, 19137), (200, 19182), (205, 19203), (207, 19221), (211, 19239), (242, 19356), (252, 19407), (254, 19419), (256, 19425), (270, 19491), (277, 19515), (279, 19521), (288, 19569), (289, 19572), (323, 19713), (339, 19773), (345, 19791), (350, 19806),

Gene: Kabluna_45 Start: 31212, Stop: 32321, Start Num: 61

Candidate Starts for Kabluna_45:

(Start: 61 @31212 has 47 MA's), (88, 31272), (118, 31401), (142, 31482), (159, 31548), (163, 31557), (192, 31674), (213, 31770), (214, 31776), (220, 31800), (234, 31848), (245, 31896), (254, 31932), (269, 32001), (272, 32016), (288, 32067), (310, 32157), (326, 32217),

Gene: KappaFarmDelta_29 Start: 22801, Stop: 23868, Start Num: 58

Candidate Starts for KappaFarmDelta_29:

(Start: 58 @22801 has 44 MA's), (90, 22879), (105, 22936), (108, 22945), (133, 23041), (146, 23101), (159, 23137), (164, 23158), (167, 23176), (178, 23212), (184, 23233), (186, 23239), (200, 23287),

(230, 23413), (248, 23485), (269, 23575), (279, 23605), (314, 23740), (319, 23761), (329, 23782), (348, 23851),

Gene: Kareem_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Kareem_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Kasen3_20 Start: 18862, Stop: 19998, Start Num: 33

Candidate Starts for Kasen3_20:

(18, 18658), (29, 18817), (Start: 33 @18862 has 64 MA's), (72, 18940), (74, 18943), (75, 18946), (79, 18958), (86, 18976), (95, 19009), (100, 19024), (114, 19105), (146, 19219), (148, 19231), (177, 19318), (183, 19339), (206, 19435), (227, 19513), (260, 19666), (287, 19759), (309, 19849), (324, 19903), (329, 19918), (330, 19921), (333, 19936), (346, 19981), (347, 19984),

Gene: Keshu_24 Start: 19903, Stop: 20991, Start Num: 57

Candidate Starts for Keshu_24:

(Start: 57 @19903 has 17 MA's), (Start: 67 @19915 has 23 MA's), (Start: 68 @19918 has 5 MA's), (86, 19969), (96, 20005), (102, 20023), (105, 20041), (109, 20056), (132, 20152), (144, 20218), (146, 20224), (156, 20251), (177, 20320), (187, 20353), (205, 20419), (221, 20491), (222, 20494), (280, 20728), (289, 20761), (313, 20860), (336, 20935), (343, 20959), (348, 20974),

Gene: KiSi_24 Start: 18646, Stop: 19728, Start Num: 52

Candidate Starts for KiSi_24:

(Start: 52 @18646 has 120 MA's), (Start: 68 @18667 has 5 MA's), (80, 18703), (89, 18727), (96, 18754), (102, 18772), (109, 18805), (110, 18808), (155, 18985), (156, 18988), (177, 19057), (199, 19129), (222, 19231), (263, 19399), (280, 19465), (310, 19579), (315, 19606), (320, 19618), (348, 19711),

Gene: KidneyBean_42 Start: 32257, Stop: 33384, Start Num: 61

Candidate Starts for KidneyBean_42:

(Start: 61 @32257 has 47 MA's), (102, 32362), (142, 32536), (163, 32611), (182, 32689), (190, 32722), (208, 32803), (216, 32848), (222, 32869), (231, 32902), (246, 32962), (335, 33316), (345, 33349),

Gene: Kinbote_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Kinbote_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Kratio_22 Start: 19505, Stop: 20590, Start Num: 56

Candidate Starts for Kratio_22:

(36, 19454), (Start: 56 @19505 has 40 MA's), (75, 19541), (80, 19556), (89, 19580), (100, 19619), (115, 19703), (146, 19814), (155, 19838), (156, 19841), (199, 19988), (222, 20093), (280, 20327), (287, 20345), (310, 20441), (315, 20468), (336, 20534), (343, 20558),

Gene: Krueger_24 Start: 18615, Stop: 19697, Start Num: 52

Candidate Starts for Krueger_24:

(Start: 52 @18615 has 120 MA's), (62, 18630), (86, 18687), (96, 18723), (102, 18741), (144, 18924), (155, 18954), (156, 18957), (177, 19026), (199, 19098), (222, 19200), (228, 19221), (230, 19227), (280, 19434), (315, 19575), (336, 19641), (343, 19665), (348, 19680),

Gene: Kurt_42 Start: 32494, Stop: 33621, Start Num: 61

Candidate Starts for Kurt_42:

(Start: 61 @32494 has 47 MA's), (102, 32599), (142, 32773), (163, 32848), (182, 32926), (190, 32959), (208, 33040), (216, 33085), (222, 33106), (231, 33139), (246, 33199), (335, 33553), (345, 33586),

Gene: Larva_24 Start: 19675, Stop: 20760, Start Num: 56

Candidate Starts for Larva_24:

(36, 19624), (Start: 56 @19675 has 40 MA's), (75, 19711), (80, 19726), (89, 19750), (100, 19789), (115, 19873), (146, 19984), (155, 20008), (156, 20011), (199, 20158), (222, 20263), (263, 20431), (280, 20497), (287, 20515), (288, 20527), (315, 20638), (336, 20704),

Gene: LastHope_25 Start: 18777, Stop: 19859, Start Num: 52

Candidate Starts for LastHope_25:

(Start: 52 @18777 has 120 MA's), (96, 18885), (102, 18903), (105, 18921), (155, 19116), (156, 19119), (177, 19188), (199, 19260), (214, 19335), (222, 19362), (242, 19431), (253, 19482), (280, 19596), (295, 19656), (310, 19710), (336, 19803), (348, 19842),

Gene: LaterM_25 Start: 19444, Stop: 20529, Start Num: 52

Candidate Starts for LaterM_25:

(Start: 52 @19444 has 120 MA's), (96, 19552), (102, 19570), (105, 19588), (155, 19783), (156, 19786), (177, 19855), (187, 19888), (199, 19927), (222, 20029), (242, 20098), (280, 20263), (288, 20293), (289, 20296), (301, 20338), (310, 20377), (315, 20404), (346, 20503),

Gene: LeMond_24 Start: 18717, Stop: 19799, Start Num: 52

Candidate Starts for LeMond_24:

(Start: 52 @18717 has 120 MA's), (Start: 68 @18738 has 5 MA's), (80, 18774), (89, 18798), (96, 18825), (102, 18843), (109, 18876), (110, 18879), (155, 19056), (156, 19059), (177, 19128), (199, 19200), (222, 19302), (263, 19470), (280, 19536), (310, 19650), (315, 19677), (320, 19689), (348, 19782),

Gene: Lemuria_21 Start: 19002, Stop: 20144, Start Num: 35

Candidate Starts for Lemuria_21:

(29, 18954), (Start: 35 @19002 has 2 MA's), (79, 19104), (95, 19155), (102, 19176), (114, 19251), (146, 19365), (148, 19377), (177, 19464), (183, 19485), (187, 19506), (206, 19581), (257, 19794), (260, 19812), (309, 19995), (315, 20028), (329, 20064), (330, 20067), (347, 20130), (348, 20133),

Gene: Leston_23 Start: 19904, Stop: 20989, Start Num: 56

Candidate Starts for Leston_23:

(36, 19853), (Start: 56 @19904 has 40 MA's), (75, 19940), (80, 19955), (89, 19979), (100, 20018), (115, 20102), (146, 20213), (155, 20237), (156, 20240), (199, 20387), (222, 20492), (280, 20726), (287, 20744), (310, 20840), (315, 20867), (336, 20933),

Gene: Liefie_20 Start: 18860, Stop: 19996, Start Num: 33

Candidate Starts for Liefie_20:

(18, 18656), (29, 18815), (Start: 33 @18860 has 64 MA's), (72, 18938), (74, 18941), (75, 18944), (79, 18956), (86, 18974), (95, 19007), (100, 19022), (114, 19103), (146, 19217), (148, 19229), (177, 19316), (183, 19337), (206, 19433), (227, 19511), (260, 19664), (287, 19757), (309, 19847), (324, 19901), (329, 19916), (330, 19919), (333, 19934), (346, 19979), (347, 19982),

Gene: LilHazelnut_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for LilHazelnut_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: LilPharaoh_21 Start: 19023, Stop: 20105, Start Num: 52

Candidate Starts for LilPharaoh_21:

(Start: 52 @19023 has 120 MA's), (80, 19080), (96, 19131), (102, 19149), (105, 19167), (115, 19227), (116, 19233), (144, 19332), (155, 19362), (156, 19365), (169, 19413), (186, 19455), (187, 19467), (222, 19608), (226, 19620), (280, 19842), (301, 19917), (313, 19974), (324, 20004), (336, 20049), (348, 20088),

Gene: LindNT_25 Start: 19448, Stop: 20530, Start Num: 52

Candidate Starts for LindNT_25:

(Start: 52 @19448 has 120 MA's), (96, 19556), (102, 19574), (105, 19592), (155, 19787), (156, 19790), (177, 19859), (199, 19931), (222, 20033), (280, 20267), (295, 20327), (310, 20381), (336, 20474), (348, 20513),

Gene: Llorens_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Llorens_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Lollipop1437_47 Start: 33113, Stop: 34222, Start Num: 61

Candidate Starts for Lollipop1437_47:

(1, 32027), (2, 32060), (3, 32540), (Start: 61 @33113 has 47 MA's), (88, 33173), (107, 33233), (142, 33383), (172, 33503), (182, 33536), (195, 33584), (213, 33671), (220, 33701), (257, 33845), (277, 33929), (315, 34085), (326, 34118), (343, 34181),

Gene: LouisV14_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for LouisV14_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Lozinak_56 Start: 34742, Stop: 35824, Start Num: 64

Candidate Starts for Lozinak_56:

(Start: 64 @34742 has 21 MA's), (78, 34781), (85, 34802), (117, 34949), (145, 35039), (152, 35069), (170, 35129), (191, 35198), (254, 35435), (259, 35453), (265, 35486), (277, 35528), (297, 35621), (309, 35666), (328, 35741), (329, 35744), (345, 35804), (346, 35807),

Gene: Luke_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Luke_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641),

(313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Luna22_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Luna22_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Lunahalos_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Lunahalos_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Lysidious_28 Start: 22840, Stop: 23907, Start Num: 58

Candidate Starts for Lysidious_28:

(Start: 58 @22840 has 44 MA's), (72, 22870), (90, 22918), (93, 22933), (105, 22975), (129, 23071), (133, 23080), (146, 23140), (159, 23176), (164, 23197), (178, 23251), (184, 23272), (186, 23278), (194, 23311), (200, 23326), (230, 23452), (255, 23548), (267, 23608), (269, 23614), (279, 23644), (302, 23725), (348, 23890),

Gene: MOOREtheMARYer_21 Start: 19205, Stop: 20350, Start Num: 33

Candidate Starts for MOOREtheMARYer_21:

(Start: 33 @19205 has 64 MA's), (41, 19220), (72, 19292), (79, 19310), (95, 19361), (100, 19376), (114, 19457), (127, 19502), (148, 19583), (177, 19670), (187, 19712), (206, 19787), (208, 19796), (233, 19898), (313, 20225),

Gene: MacGully_53 Start: 35504, Stop: 36610, Start Num: 61

Candidate Starts for MacGully_53:

(Start: 54 @35498 has 1 MA's), (Start: 61 @35504 has 47 MA's), (71, 35519), (88, 35567), (118, 35696), (120, 35699), (154, 35834), (172, 35897), (181, 35927), (211, 36059), (232, 36137), (254, 36227), (259, 36245), (269, 36296), (273, 36314), (277, 36323), (279, 36329), (310, 36449),

Gene: MacnCheese_25 Start: 20145, Stop: 21233, Start Num: 57

Candidate Starts for MacnCheese_25:

(Start: 57 @20145 has 17 MA's), (Start: 67 @20157 has 23 MA's), (Start: 68 @20160 has 5 MA's), (86, 20211), (91, 20223), (96, 20247), (102, 20265), (105, 20283), (109, 20298), (122, 20364), (132, 20394), (144, 20460), (156, 20493), (177, 20562), (187, 20595), (205, 20661), (221, 20733), (222, 20736), (280, 20970), (289, 21003), (313, 21102), (324, 21132), (336, 21177), (343, 21201), (348, 21216),

Gene: Maco6_21 Start: 17553, Stop: 18653, Start Num: 48

Candidate Starts for Maco6_21:

(Start: 48 @17553 has 2 MA's), (69, 17589), (78, 17616), (82, 17628), (100, 17685), (108, 17718), (109, 17724), (123, 17796), (205, 18075), (247, 18252), (256, 18285), (258, 18294), (260, 18309), (269, 18345), (286, 18399), (315, 18525), (327, 18564), (343, 18624), (350, 18645),

Gene: Malachai_28 Start: 22800, Stop: 23867, Start Num: 58

Candidate Starts for Malachai_28:

(Start: 58 @22800 has 44 MA's), (72, 22830), (90, 22878), (93, 22893), (105, 22935), (106, 22938), (108, 22944), (125, 23022), (129, 23031), (133, 23040), (146, 23100), (178, 23211), (184, 23232),

(186, 23238), (194, 23271), (200, 23286), (230, 23412), (241, 23448), (255, 23508), (267, 23568), (269, 23574), (279, 23604), (302, 23685), (348, 23850),

Gene: MalagasyRose_26 Start: 19070, Stop: 20185, Start Num: 38

Candidate Starts for MalagasyRose_26:

(32, 19046), (Start: 38 @19070 has 1 MA's), (43, 19079), (50, 19106), (93, 19217), (99, 19235), (112, 19292), (124, 19346), (155, 19436), (158, 19442), (160, 19445), (171, 19493), (173, 19496), (186, 19523), (211, 19637), (214, 19649), (220, 19670), (237, 19721), (242, 19739), (262, 19835), (263, 19838), (270, 19871), (275, 19889), (280, 19904), (289, 19937), (301, 19979), (315, 20045), (327, 20084), (343, 20144), (347, 20156), (348, 20159),

Gene: Malthus_27 Start: 20849, Stop: 21946, Start Num: 56

Candidate Starts for Malthus_27:

(21, 20600), (23, 20627), (36, 20798), (Start: 56 @20849 has 40 MA's), (Start: 67 @20861 has 23 MA's), (102, 20969), (109, 21002), (146, 21158), (156, 21185), (177, 21254), (187, 21287), (215, 21404), (222, 21428), (234, 21470), (242, 21497), (287, 21680), (313, 21794), (315, 21803), (348, 21908),

Gene: Marcoliusprime_21 Start: 17339, Stop: 18418, Start Num: 57

Candidate Starts for Marcoliusprime_21:

(28, 17198), (Start: 57 @17339 has 17 MA's), (89, 17414), (96, 17441), (100, 17453), (102, 17459), (109, 17492), (156, 17675), (169, 17723), (177, 17744), (201, 17825), (222, 17918), (230, 17945), (242, 17987), (247, 18020), (280, 18152), (301, 18227), (310, 18266), (315, 18293),

Gene: Marietta_44 Start: 29547, Stop: 30662, Start Num: 66

Candidate Starts for Marietta_44:

(Start: 66 @29547 has 7 MA's), (80, 29589), (88, 29613), (102, 29649), (111, 29697), (120, 29745), (163, 29898), (192, 30015), (211, 30105), (213, 30111), (259, 30291), (265, 30324), (272, 30357), (277, 30369), (315, 30525), (331, 30579), (335, 30594), (343, 30621),

Gene: MarkPhew_25 Start: 18605, Stop: 19687, Start Num: 52

Candidate Starts for MarkPhew_25:

(Start: 52 @18605 has 120 MA's), (96, 18713), (102, 18731), (109, 18764), (115, 18809), (144, 18914), (155, 18944), (156, 18947), (177, 19016), (199, 19088), (201, 19097), (228, 19211), (230, 19217), (280, 19424), (309, 19532), (310, 19538), (315, 19565), (348, 19670),

Gene: Marmie_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Marmie_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Marshawn_26 Start: 19229, Stop: 20311, Start Num: 52

Candidate Starts for Marshawn_26:

(Start: 52 @19229 has 120 MA's), (80, 19286), (96, 19337), (102, 19355), (115, 19433), (126, 19472), (146, 19544), (155, 19568), (156, 19571), (177, 19640), (180, 19652), (199, 19712), (222, 19814), (230, 19841), (280, 20048), (310, 20162), (343, 20279),

Gene: Maselop_46 Start: 32981, Stop: 34087, Start Num: 61

Candidate Starts for Maselop_46:

(Start: 61 @32981 has 47 MA's), (102, 33080), (118, 33173), (120, 33176), (129, 33206), (154, 33311), (161, 33323), (172, 33374), (211, 33536), (214, 33548), (232, 33614), (259, 33722), (267,

33767), (269, 33773), (273, 33791), (277, 33800), (279, 33806), (303, 33902), (306, 33911), (310, 33926), (317, 33965),

Gene: Mdavu_21 Start: 19011, Stop: 20093, Start Num: 52

Candidate Starts for Mdavu_21:

(Start: 52 @19011 has 120 MA's), (80, 19068), (96, 19119), (102, 19137), (105, 19155), (115, 19215), (116, 19221), (144, 19320), (155, 19350), (156, 19353), (169, 19401), (186, 19443), (187, 19455), (222, 19596), (226, 19608), (280, 19830), (301, 19905), (313, 19962), (324, 19992), (336, 20037), (348, 20076),

Gene: MeaningOfLife_25 Start: 19450, Stop: 20532, Start Num: 52

Candidate Starts for MeaningOfLife_25:

(Start: 52 @19450 has 120 MA's), (96, 19558), (102, 19576), (105, 19594), (155, 19789), (156, 19792), (177, 19861), (199, 19933), (222, 20035), (280, 20269), (295, 20329), (310, 20383), (336, 20476), (348, 20515),

Gene: Megsy_26 Start: 19451, Stop: 20533, Start Num: 52

Candidate Starts for Megsy_26:

(Start: 52 @19451 has 120 MA's), (96, 19559), (102, 19577), (155, 19790), (156, 19793), (177, 19862), (199, 19934), (222, 20036), (280, 20270), (295, 20330), (310, 20384), (336, 20477), (348, 20516),

Gene: Melba_27 Start: 22319, Stop: 23386, Start Num: 58

Candidate Starts for Melba_27:

(Start: 58 @22319 has 44 MA's), (72, 22349), (90, 22397), (93, 22412), (105, 22454), (106, 22457), (108, 22463), (125, 22541), (129, 22550), (133, 22559), (146, 22619), (159, 22655), (179, 22733), (184, 22751), (186, 22757), (194, 22790), (200, 22805), (230, 22931), (255, 23027), (269, 23093), (279, 23123), (348, 23369),

Gene: Mellie_26 Start: 22080, Stop: 23147, Start Num: 58

Candidate Starts for Mellie_26:

(Start: 58 @22080 has 44 MA's), (72, 22110), (90, 22158), (93, 22173), (105, 22215), (129, 22311), (133, 22320), (146, 22380), (159, 22416), (164, 22437), (178, 22491), (184, 22512), (186, 22518), (194, 22551), (200, 22566), (230, 22692), (255, 22788), (267, 22848), (269, 22854), (279, 22884), (348, 23130),

Gene: MerCougar_43 Start: 32394, Stop: 33503, Start Num: 61

Candidate Starts for MerCougar_43:

(Start: 61 @32394 has 47 MA's), (88, 32454), (118, 32583), (120, 32586), (142, 32664), (163, 32739), (182, 32817), (213, 32952), (220, 32982), (234, 33030), (245, 33078), (269, 33183), (284, 33237), (310, 33339), (326, 33399),

Gene: Mercurio_22 Start: 19624, Stop: 20760, Start Num: 35

Candidate Starts for Mercurio_22:

(8, 19333), (18, 19417), (Start: 35 @19624 has 2 MA's), (46, 19651), (65, 19681), (72, 19702), (79, 19720), (95, 19771), (102, 19792), (114, 19867), (148, 19993), (177, 20080), (183, 20101), (187, 20122), (206, 20197), (257, 20410), (260, 20428), (309, 20611), (313, 20635), (329, 20680), (330, 20683), (347, 20746), (348, 20749),

Gene: Meyran_27 Start: 23460, Stop: 24524, Start Num: 68

Candidate Starts for Meyran_27:

(Start: 68 @23460 has 5 MA's), (81, 23499), (96, 23550), (97, 23553), (106, 23589), (108, 23595), (109, 23601), (187, 23889), (199, 23928), (215, 24009), (217, 24015), (225, 24042), (232, 24063),

(238, 24081), (254, 24156), (278, 24252), (280, 24255), (315, 24402), (327, 24432), (345, 24498), (351, 24516),

Gene: Milly_21 Start: 17339, Stop: 18418, Start Num: 57

Candidate Starts for Milly_21:

(28, 17198), (Start: 57 @17339 has 17 MA's), (89, 17414), (96, 17441), (100, 17453), (102, 17459), (109, 17492), (156, 17675), (169, 17723), (177, 17744), (201, 17825), (222, 17918), (230, 17945), (242, 17987), (247, 18020), (280, 18152), (301, 18227), (310, 18266), (315, 18293),

Gene: MintFen_27 Start: 22319, Stop: 23386, Start Num: 58

Candidate Starts for MintFen_27:

(Start: 58 @22319 has 44 MA's), (72, 22349), (90, 22397), (93, 22412), (105, 22454), (106, 22457), (108, 22463), (125, 22541), (129, 22550), (133, 22559), (146, 22619), (159, 22655), (179, 22733), (184, 22751), (186, 22757), (194, 22790), (200, 22805), (230, 22931), (255, 23027), (269, 23093), (279, 23123), (348, 23369),

Gene: Miryou_23 Start: 19759, Stop: 20844, Start Num: 56

Candidate Starts for Miryou_23:

(36, 19708), (Start: 56 @19759 has 40 MA's), (75, 19795), (80, 19810), (89, 19834), (100, 19873), (115, 19957), (144, 20062), (146, 20068), (155, 20092), (156, 20095), (199, 20242), (221, 20344), (222, 20347), (280, 20581), (287, 20599), (310, 20695), (315, 20722), (336, 20788), (343, 20812),

Gene: Miskis_57 Start: 34047, Stop: 35129, Start Num: 64

Candidate Starts for Miskis_57:

(Start: 64 @34047 has 21 MA's), (78, 34086), (85, 34107), (117, 34254), (145, 34344), (152, 34374), (170, 34434), (191, 34503), (254, 34740), (259, 34758), (265, 34791), (277, 34833), (297, 34926), (309, 34971), (328, 35046), (329, 35049), (345, 35109), (346, 35112),

Gene: MissDaisy_26 Start: 20688, Stop: 21785, Start Num: 56

Candidate Starts for MissDaisy_26:

(21, 20439), (23, 20466), (36, 20637), (Start: 56 @20688 has 40 MA's), (Start: 67 @20700 has 23 MA's), (102, 20808), (109, 20841), (135, 20943), (144, 20991), (146, 20997), (177, 21093), (187, 21126), (194, 21147), (215, 21243), (222, 21267), (234, 21309), (242, 21336), (287, 21519), (313, 21633), (315, 21642), (348, 21747),

Gene: MissRona_29 Start: 22628, Stop: 23695, Start Num: 58

Candidate Starts for MissRona_29:

(Start: 58 @22628 has 44 MA's), (72, 22658), (90, 22706), (93, 22721), (105, 22763), (106, 22766), (108, 22772), (129, 22859), (133, 22868), (146, 22928), (159, 22964), (164, 22985), (178, 23039), (184, 23060), (186, 23066), (194, 23099), (200, 23114), (230, 23240), (255, 23336), (267, 23396), (269, 23402), (279, 23432), (302, 23513), (348, 23678),

Gene: Mitti_26 Start: 20849, Stop: 21946, Start Num: 56

Candidate Starts for Mitti_26:

(21, 20600), (23, 20627), (36, 20798), (Start: 56 @20849 has 40 MA's), (Start: 67 @20861 has 23 MA's), (102, 20969), (109, 21002), (146, 21158), (156, 21185), (177, 21254), (187, 21287), (199, 21326), (215, 21404), (222, 21428), (234, 21470), (242, 21497), (287, 21680), (313, 21794), (315, 21803), (348, 21908),

Gene: Mollymur_37 Start: 33053, Stop: 34123, Start Num: 64

Candidate Starts for Mollymur_37:

(Start: 64 @33053 has 21 MA's), (106, 33188), (116, 33254), (176, 33449), (191, 33506), (238, 33671), (277, 33833), (279, 33839), (335, 34067),

Gene: Mowgli_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Mowgli_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Muddy_23 Start: 18503, Stop: 19603, Start Num: 48

Candidate Starts for Muddy_23:

(Start: 48 @18503 has 2 MA's), (69, 18539), (78, 18566), (82, 18578), (100, 18635), (108, 18668), (109, 18674), (123, 18746), (140, 18794), (205, 19025), (247, 19202), (256, 19235), (258, 19244), (260, 19259), (269, 19295), (286, 19349), (315, 19475), (327, 19514), (343, 19574), (350, 19595),

Gene: Mufasa_21 Start: 17359, Stop: 18438, Start Num: 57

Candidate Starts for Mufasa_21:

(28, 17218), (Start: 57 @17359 has 17 MA's), (89, 17434), (96, 17461), (102, 17479), (109, 17512), (156, 17695), (177, 17764), (187, 17797), (222, 17938), (230, 17965), (242, 18007), (247, 18040), (280, 18172), (301, 18247), (310, 18286), (315, 18313),

Gene: Mulch_24 Start: 19505, Stop: 20605, Start Num: 63

Candidate Starts for Mulch_24:

(Start: 63 @19505 has 15 MA's), (83, 19556), (105, 19637), (162, 19850), (169, 19886), (203, 19994), (227, 20081), (256, 20216), (264, 20252), (266, 20261), (274, 20297), (289, 20363), (298, 20408), (310, 20459), (315, 20486), (322, 20504), (345, 20582), (350, 20597),

Gene: Murp_28 Start: 22578, Stop: 23645, Start Num: 58

Candidate Starts for Murp_28:

(Start: 58 @22578 has 44 MA's), (90, 22656), (93, 22671), (105, 22713), (108, 22722), (133, 22818), (146, 22878), (159, 22914), (164, 22935), (178, 22989), (184, 23010), (186, 23016), (192, 23043), (200, 23064), (230, 23190), (248, 23262), (269, 23352), (279, 23382), (314, 23517), (319, 23538), (329, 23559), (348, 23628),

Gene: Murucutumbu_25 Start: 19434, Stop: 20516, Start Num: 52

Candidate Starts for Murucutumbu_25:

(Start: 52 @19434 has 120 MA's), (96, 19542), (102, 19560), (105, 19578), (144, 19743), (155, 19773), (156, 19776), (177, 19845), (187, 19878), (199, 19917), (222, 20019), (287, 20271), (295, 20313), (310, 20367), (336, 20460), (348, 20499),

Gene: Mynx_25 Start: 19497, Stop: 20579, Start Num: 52

Candidate Starts for Mynx_25:

(Start: 52 @19497 has 120 MA's), (96, 19605), (102, 19623), (105, 19641), (155, 19836), (156, 19839), (177, 19908), (199, 19980), (214, 20055), (222, 20082), (280, 20316), (295, 20376), (310, 20430), (336, 20523), (348, 20562),

Gene: Nadeem_24 Start: 19505, Stop: 20605, Start Num: 63

Candidate Starts for Nadeem_24:

(Start: 63 @19505 has 15 MA's), (83, 19556), (105, 19637), (162, 19850), (169, 19886), (203, 19994), (227, 20081), (256, 20216), (264, 20252), (266, 20261), (274, 20297), (289, 20363), (298, 20408), (310, 20459), (315, 20486), (322, 20504), (345, 20582), (350, 20597),

Gene: NadineRae_42 Start: 28800, Stop: 29915, Start Num: 66

Candidate Starts for NadineRae_42:

(Start: 66 @28800 has 7 MA's), (80, 28842), (88, 28866), (102, 28902), (111, 28950), (120, 28998), (163, 29151), (207, 29340), (211, 29358), (213, 29364), (259, 29544), (265, 29577), (272, 29610), (277, 29622), (315, 29778), (331, 29832), (335, 29847), (343, 29874),

Gene: NancyRae_24 Start: 19511, Stop: 20611, Start Num: 63

Candidate Starts for NancyRae_24:

(Start: 63 @19511 has 15 MA's), (83, 19562), (105, 19643), (162, 19856), (169, 19892), (203, 20000), (227, 20087), (256, 20222), (264, 20258), (266, 20267), (274, 20303), (289, 20369), (298, 20414), (310, 20465), (315, 20492), (322, 20510), (345, 20588), (350, 20603),

Gene: NatB6_42 Start: 31530, Stop: 32657, Start Num: 61

Candidate Starts for NatB6_42:

(Start: 61 @31530 has 47 MA's), (102, 31635), (142, 31809), (163, 31884), (182, 31962), (190, 31995), (208, 32076), (216, 32121), (222, 32142), (231, 32175), (246, 32235), (335, 32589), (345, 32622),

Gene: Nergal_24 Start: 19590, Stop: 20708, Start Num: 37

Candidate Starts for Nergal_24:

(Start: 37 @19590 has 1 MA's), (43, 19602), (50, 19629), (71, 19671), (82, 19701), (92, 19737), (98, 19755), (99, 19758), (112, 19815), (124, 19869), (141, 19914), (158, 19965), (160, 19968), (173, 20019), (188, 20061), (189, 20064), (220, 20193), (229, 20226), (237, 20244), (242, 20262), (261, 20355), (315, 20571), (326, 20604), (327, 20610), (346, 20679),

Gene: Nibb_24 Start: 18746, Stop: 19828, Start Num: 52

Candidate Starts for Nibb_24:

(Start: 52 @18746 has 120 MA's), (80, 18803), (89, 18827), (96, 18854), (102, 18872), (109, 18905), (110, 18908), (115, 18950), (144, 19055), (155, 19085), (156, 19088), (177, 19157), (199, 19229), (222, 19331), (228, 19352), (230, 19358), (280, 19565), (309, 19673), (310, 19679), (315, 19706), (348, 19811),

Gene: Nikao_21 Start: 19023, Stop: 20105, Start Num: 52

Candidate Starts for Nikao_21:

(Start: 52 @19023 has 120 MA's), (80, 19080), (96, 19131), (102, 19149), (105, 19167), (115, 19227), (116, 19233), (144, 19332), (155, 19362), (156, 19365), (169, 19413), (186, 19455), (187, 19467), (222, 19608), (226, 19620), (280, 19842), (301, 19917), (313, 19974), (324, 20004), (336, 20049), (348, 20088),

Gene: Niklas_25 Start: 18841, Stop: 19923, Start Num: 52

Candidate Starts for Niklas_25:

(Start: 52 @18841 has 120 MA's), (96, 18949), (102, 18967), (105, 18985), (144, 19150), (155, 19180), (156, 19183), (169, 19231), (187, 19285), (226, 19438), (260, 19585), (280, 19660), (301, 19735), (336, 19867), (343, 19891), (348, 19906),

Gene: NoShow_20 Start: 17782, Stop: 18882, Start Num: 61

Candidate Starts for NoShow_20:

(Start: 61 @17782 has 47 MA's), (75, 17815), (80, 17830), (96, 17881), (100, 17893), (103, 17902), (108, 17926), (114, 17974), (125, 18010), (169, 18166), (186, 18217), (187, 18229), (199, 18268), (201, 18277), (212, 18337), (258, 18520), (308, 18715), (310, 18724), (315, 18751), (346, 18859),

Gene: Norvs_56 Start: 34286, Stop: 35368, Start Num: 64

Candidate Starts for Norvs_56:

(Start: 64 @34286 has 21 MA's), (78, 34325), (85, 34346), (117, 34493), (145, 34583), (152, 34613), (170, 34673), (191, 34742), (254, 34979), (259, 34997), (265, 35030), (277, 35072), (297, 35165),

(309, 35210), (328, 35285), (329, 35288), (345, 35348), (346, 35351),

Gene: NosilaM_45 Start: 32109, Stop: 33218, Start Num: 61

Candidate Starts for NosilaM_45:

(Start: 61 @32109 has 47 MA's), (88, 32169), (118, 32298), (120, 32301), (131, 32337), (142, 32379), (159, 32445), (163, 32454), (213, 32667), (214, 32673), (220, 32697), (234, 32745), (245, 32793), (269, 32898), (272, 32913), (288, 32964), (310, 33054), (326, 33114),

Gene: NovumRegina_42 Start: 31860, Stop: 32987, Start Num: 61

Candidate Starts for NovumRegina_42:

(Start: 61 @31860 has 47 MA's), (102, 31965), (138, 32121), (163, 32214), (182, 32292), (190, 32325), (208, 32406), (216, 32451), (222, 32472), (227, 32487), (231, 32505), (246, 32565), (335, 32919), (345, 32952),

Gene: Nutello_21 Start: 19023, Stop: 20105, Start Num: 52

Candidate Starts for Nutello_21:

(Start: 52 @19023 has 120 MA's), (80, 19080), (96, 19131), (102, 19149), (105, 19167), (115, 19227), (116, 19233), (144, 19332), (155, 19362), (156, 19365), (169, 19413), (186, 19455), (187, 19467), (222, 19608), (226, 19620), (280, 19842), (301, 19917), (313, 19974), (324, 20004), (336, 20049), (348, 20088),

Gene: Nyceirae_29 Start: 23200, Stop: 24264, Start Num: 68

Candidate Starts for Nyceirae_29:

(Start: 68 @23200 has 5 MA's), (79, 23233), (85, 23251), (96, 23290), (97, 23293), (106, 23329), (108, 23335), (109, 23341), (187, 23629), (199, 23668), (204, 23695), (217, 23755), (225, 23782), (232, 23803), (238, 23821), (254, 23896), (263, 23935), (266, 23947), (278, 23992), (280, 23995), (315, 24142), (327, 24172), (345, 24238), (351, 24256),

Gene: OBUpride_24 Start: 19744, Stop: 20847, Start Num: 67

Candidate Starts for OBUpride_24:

(19, 19477), (Start: 67 @19744 has 23 MA's), (100, 19849), (102, 19855), (103, 19858), (105, 19873), (106, 19876), (107, 19879), (108, 19882), (110, 19891), (127, 19975), (135, 19990), (146, 20041), (167, 20110), (169, 20116), (175, 20128), (177, 20137), (199, 20209), (211, 20272), (221, 20302), (222, 20305), (243, 20401), (252, 20440), (255, 20455), (279, 20554), (281, 20563), (296, 20635), (313, 20719), (326, 20752), (327, 20758), (350, 20839),

Gene: Obliviate_27 Start: 22235, Stop: 23302, Start Num: 58

Candidate Starts for Obliviate_27:

(Start: 58 @22235 has 44 MA's), (72, 22265), (90, 22313), (93, 22328), (105, 22370), (125, 22457), (129, 22466), (133, 22475), (146, 22535), (159, 22571), (184, 22667), (186, 22673), (192, 22700), (200, 22721), (257, 22952), (269, 23009), (279, 23039), (329, 23216), (348, 23285),

Gene: OctaviousRex_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for OctaviousRex_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: OkiRoe_23 Start: 19775, Stop: 20860, Start Num: 56

Candidate Starts for OkiRoe_23:

(36, 19724), (Start: 56 @19775 has 40 MA's), (75, 19811), (80, 19826), (89, 19850), (100, 19889), (115, 19973), (146, 20084), (155, 20108), (156, 20111), (199, 20258), (222, 20363), (280, 20597),

(287, 20615), (310, 20711), (315, 20738), (336, 20804),

Gene: Olga_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Olga_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: OmniCritical_26 Start: 20834, Stop: 21931, Start Num: 56

Candidate Starts for OmniCritical_26:

(21, 20585), (23, 20612), (36, 20783), (Start: 56 @20834 has 40 MA's), (Start: 67 @20846 has 23 MA's), (102, 20954), (109, 20987), (146, 21143), (156, 21170), (177, 21239), (187, 21272), (199, 21311), (215, 21389), (222, 21413), (234, 21455), (242, 21482), (287, 21665), (313, 21779), (315, 21788), (348, 21893),

Gene: Omnicron_24 Start: 18594, Stop: 19679, Start Num: 56

Candidate Starts for Omnicron_24:

(36, 18543), (Start: 56 @18594 has 40 MA's), (75, 18630), (80, 18645), (89, 18669), (100, 18708), (115, 18792), (146, 18903), (155, 18927), (156, 18930), (167, 18972), (199, 19077), (222, 19182), (280, 19416), (287, 19434), (288, 19446), (310, 19530), (315, 19557), (333, 19611), (336, 19623), (343, 19647),

Gene: OneUp_49 Start: 31683, Stop: 32762, Start Num: 64

Candidate Starts for OneUp_49:

(Start: 64 @31683 has 21 MA's), (106, 31818), (117, 31887), (134, 31926), (145, 31977), (151, 32004), (164, 32040), (191, 32136), (268, 32439), (269, 32442), (277, 32466), (282, 32484),

Gene: Oscar_24 Start: 18718, Stop: 19800, Start Num: 52

Candidate Starts for Oscar_24:

(Start: 52 @18718 has 120 MA's), (Start: 68 @18739 has 5 MA's), (80, 18775), (89, 18799), (96, 18826), (102, 18844), (109, 18877), (110, 18880), (155, 19057), (156, 19060), (177, 19129), (199, 19201), (222, 19303), (263, 19471), (280, 19537), (310, 19651), (315, 19678), (320, 19690), (348, 19783),

Gene: Outis_43 Start: 32088, Stop: 33197, Start Num: 61

Candidate Starts for Outis_43:

(Start: 61 @32088 has 47 MA's), (88, 32148), (118, 32277), (120, 32280), (142, 32358), (163, 32433), (182, 32511), (213, 32646), (220, 32676), (234, 32724), (245, 32772), (269, 32877), (284, 32931), (310, 33033), (326, 33093),

Gene: P3MA_21 Start: 16724, Stop: 17776, Start Num: 63

Candidate Starts for P3MA_21:

(Start: 58 @16718 has 44 MA's), (Start: 63 @16724 has 15 MA's), (76, 16760), (83, 16778), (85, 16784), (92, 16811), (105, 16859), (115, 16919), (146, 17024), (147, 17030), (167, 17093), (187, 17138), (234, 17321), (257, 17423), (270, 17483), (272, 17492), (280, 17519), (287, 17537), (292, 17573), (300, 17591), (309, 17627), (310, 17633), (311, 17639), (326, 17684), (334, 17720), (348, 17756),

Gene: PCoral7_28 Start: 22551, Stop: 23615, Start Num: 58

Candidate Starts for PCoral7_28:

(Start: 58 @22551 has 44 MA's), (90, 22629), (95, 22650), (105, 22686), (106, 22689), (108, 22695), (146, 22851), (159, 22887), (164, 22908), (167, 22926), (184, 22980), (186, 22986), (200, 23034),

(230, 23160), (267, 23316), (269, 23322), (279, 23352), (314, 23487), (325, 23520), (329, 23529), (343, 23583), (348, 23598), (350, 23604),

Gene: Pace1224_20 Start: 19051, Stop: 20202, Start Num: 33

Candidate Starts for Pace1224_20:

(Start: 33 @19051 has 64 MA's), (72, 19144), (79, 19162), (89, 19189), (95, 19213), (100, 19228), (114, 19309), (115, 19312), (148, 19435), (177, 19522), (187, 19564), (206, 19639), (221, 19699), (223, 19708), (239, 19768), (257, 19852), (260, 19870), (330, 20125),

Gene: Padfoot_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Padfoot_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Padpat_25 Start: 19474, Stop: 20556, Start Num: 52

Candidate Starts for Padpat_25:

(Start: 52 @19474 has 120 MA's), (96, 19582), (102, 19600), (105, 19618), (155, 19813), (156, 19816), (177, 19885), (199, 19957), (214, 20032), (222, 20059), (280, 20293), (295, 20353), (310, 20407), (336, 20500), (348, 20539),

Gene: Paito_20 Start: 19063, Stop: 20199, Start Num: 33

Candidate Starts for Paito_20:

(18, 18859), (29, 19018), (Start: 33 @19063 has 64 MA's), (72, 19141), (74, 19144), (79, 19159), (86, 19177), (88, 19183), (95, 19210), (100, 19225), (102, 19231), (114, 19306), (146, 19420), (148, 19432), (177, 19519), (183, 19540), (187, 19561), (206, 19636), (223, 19705), (309, 20050), (332, 20134), (346, 20182), (347, 20185),

Gene: Paola_23 Start: 19774, Stop: 20859, Start Num: 56

Candidate Starts for Paola_23:

(36, 19723), (Start: 56 @19774 has 40 MA's), (75, 19810), (80, 19825), (89, 19849), (100, 19888), (115, 19972), (146, 20083), (155, 20107), (156, 20110), (199, 20257), (222, 20362), (280, 20596), (287, 20614), (310, 20710), (315, 20737), (336, 20803),

Gene: Parada_24 Start: 19505, Stop: 20605, Start Num: 63

Candidate Starts for Parada_24:

(Start: 63 @19505 has 15 MA's), (83, 19556), (105, 19637), (162, 19850), (169, 19886), (203, 19994), (227, 20081), (256, 20216), (264, 20252), (266, 20261), (274, 20297), (289, 20363), (298, 20408), (310, 20459), (315, 20486), (322, 20504), (345, 20582), (350, 20597),

Gene: Patio_45 Start: 32349, Stop: 33458, Start Num: 61

Candidate Starts for Patio_45:

(1, 31263), (3, 31776), (Start: 61 @32349 has 47 MA's), (88, 32409), (107, 32469), (142, 32619), (172, 32739), (182, 32772), (195, 32820), (213, 32907), (220, 32937), (257, 33081), (277, 33165), (315, 33321), (343, 33417),

Gene: Patt_26 Start: 20667, Stop: 21764, Start Num: 56

Candidate Starts for Patt_26:

(21, 20418), (23, 20445), (36, 20616), (Start: 56 @20667 has 40 MA's), (Start: 67 @20679 has 23 MA's), (102, 20787), (109, 20820), (135, 20922), (144, 20970), (146, 20976), (177, 21072), (187, 21105), (194, 21126), (215, 21222), (222, 21246), (234, 21288), (242, 21315), (287, 21498), (313, 21612), (315, 21621), (348, 21726),

Gene: Peanam_25 Start: 18838, Stop: 19920, Start Num: 52

Candidate Starts for Peanam_25:

(Start: 52 @18838 has 120 MA's), (96, 18946), (102, 18964), (105, 18982), (144, 19147), (155, 19177), (156, 19180), (169, 19228), (187, 19282), (226, 19435), (260, 19582), (280, 19657), (301, 19732), (336, 19864), (343, 19888), (348, 19903),

Gene: Peeb_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Peeb_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Peel_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Peel_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Periodt_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Periodt_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Petra_29 Start: 22304, Stop: 23371, Start Num: 58

Candidate Starts for Petra_29:

(Start: 58 @22304 has 44 MA's), (90, 22382), (105, 22439), (106, 22442), (108, 22448), (133, 22544), (146, 22604), (159, 22640), (164, 22661), (178, 22715), (184, 22736), (186, 22742), (192, 22769), (200, 22790), (230, 22916), (248, 22988), (269, 23078), (279, 23108), (314, 23243), (319, 23264), (329, 23285), (348, 23354),

Gene: Pharb_24 Start: 19749, Stop: 20837, Start Num: 57

Candidate Starts for Pharb_24:

(Start: 57 @19749 has 17 MA's), (Start: 67 @19761 has 23 MA's), (86, 19815), (96, 19851), (102, 19869), (122, 19968), (132, 19998), (144, 20064), (156, 20097), (177, 20166), (187, 20199), (205, 20265), (221, 20337), (222, 20340), (230, 20367), (280, 20574), (327, 20745), (328, 20748), (336, 20781), (343, 20805), (348, 20820),

Gene: PhelpsODU_24 Start: 18672, Stop: 19775, Start Num: 52

Candidate Starts for PhelpsODU_24:

(Start: 52 @18672 has 120 MA's), (62, 18687), (86, 18744), (96, 18780), (102, 18798), (144, 18981), (155, 19011), (177, 19083), (222, 19257), (230, 19305), (234, 19320), (280, 19512), (309, 19620), (336, 19719), (343, 19743), (348, 19758),

Gene: PhinkBoden_55 Start: 34667, Stop: 35749, Start Num: 64

Candidate Starts for PhinkBoden_55:

(Start: 64 @34667 has 21 MA's), (78, 34706), (85, 34727), (117, 34874), (145, 34964), (152, 34994), (170, 35054), (191, 35123), (254, 35360), (259, 35378), (265, 35411), (277, 35453), (297, 35546), (309, 35591), (328, 35666), (329, 35669), (345, 35729), (346, 35732),

Gene: Phish_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Phish_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Phishy_28 Start: 23118, Stop: 24182, Start Num: 68

Candidate Starts for Phishy_28:

(44, 23067), (Start: 68 @23118 has 5 MA's), (79, 23151), (85, 23169), (96, 23208), (97, 23211), (100, 23220), (106, 23247), (109, 23259), (187, 23547), (199, 23586), (217, 23673), (225, 23700), (232, 23721), (238, 23739), (254, 23814), (266, 23865), (278, 23910), (280, 23913), (315, 24060), (327, 24090), (345, 24156), (351, 24174),

Gene: Phomeo_41 Start: 32129, Stop: 33256, Start Num: 61

Candidate Starts for Phomeo_41:

(Start: 61 @32129 has 47 MA's), (102, 32234), (142, 32408), (163, 32483), (182, 32561), (190, 32594), (208, 32675), (216, 32720), (222, 32741), (231, 32774), (246, 32834), (335, 33188), (345, 33221),

Gene: Phrank_24 Start: 18625, Stop: 19728, Start Num: 52

Candidate Starts for Phrank_24:

(Start: 52 @18625 has 120 MA's), (62, 18640), (86, 18697), (96, 18733), (102, 18751), (144, 18934), (155, 18964), (177, 19036), (222, 19210), (230, 19258), (234, 19273), (242, 19300), (280, 19465), (336, 19672), (343, 19696), (348, 19711),

Gene: Phreak_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Phreak_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: PhrostedPhlake_29 Start: 23012, Stop: 24079, Start Num: 58

Candidate Starts for PhrostedPhlake_29:

(Start: 58 @23012 has 44 MA's), (72, 23042), (90, 23090), (93, 23105), (105, 23147), (106, 23150), (108, 23156), (125, 23234), (129, 23243), (133, 23252), (146, 23312), (159, 23348), (179, 23426), (184, 23444), (186, 23450), (194, 23483), (200, 23498), (230, 23624), (255, 23720), (269, 23786), (279, 23816), (348, 24062),

Gene: Piatt_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Piatt_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Pimento_24 Start: 19202, Stop: 20302, Start Num: 63

Candidate Starts for Pimento_24:

(Start: 63 @19202 has 15 MA's), (83, 19253), (105, 19334), (162, 19547), (169, 19583), (203, 19691), (227, 19778), (256, 19913), (264, 19949), (266, 19958), (274, 19994), (289, 20060), (298, 20105), (310, 20156), (315, 20183), (322, 20201), (345, 20279), (350, 20294),

Gene: PinkYoshi_20 Start: 18852, Stop: 19988, Start Num: 33

Candidate Starts for PinkYoshi_20:

(18, 18648), (29, 18807), (Start: 33 @18852 has 64 MA's), (72, 18930), (74, 18933), (75, 18936), (79, 18948), (86, 18966), (95, 18999), (100, 19014), (114, 19095), (146, 19209), (148, 19221), (177, 19308), (183, 19329), (206, 19425), (227, 19503), (260, 19656), (287, 19749), (309, 19839), (324, 19893), (329, 19908), (330, 19911), (333, 19926), (346, 19971), (347, 19974),

Gene: Pinnie_21 Start: 19612, Stop: 20757, Start Num: 33

Candidate Starts for Pinnie_21:

(Start: 33 @19612 has 64 MA's), (41, 19627), (72, 19699), (79, 19717), (95, 19768), (100, 19783), (114, 19864), (148, 19990), (177, 20077), (183, 20098), (187, 20119), (206, 20194), (223, 20263), (233, 20305), (263, 20434), (290, 20545), (313, 20632), (324, 20662),

Gene: Pipp_27 Start: 22310, Stop: 23377, Start Num: 58

Candidate Starts for Pipp_27:

(Start: 58 @22310 has 44 MA's), (72, 22340), (90, 22388), (93, 22403), (95, 22409), (105, 22445), (106, 22448), (129, 22541), (146, 22610), (159, 22646), (184, 22742), (186, 22748), (192, 22775), (200, 22796), (248, 22994), (255, 23018), (267, 23078), (269, 23084), (279, 23114), (280, 23120), (329, 23291), (348, 23360),

Gene: Pixie_24 Start: 19682, Stop: 20770, Start Num: 57

Candidate Starts for Pixie_24:

(Start: 57 @19682 has 17 MA's), (Start: 67 @19694 has 23 MA's), (Start: 68 @19697 has 5 MA's), (86, 19748), (96, 19784), (102, 19802), (105, 19820), (109, 19835), (132, 19931), (144, 19997), (156, 20030), (177, 20099), (187, 20132), (205, 20198), (221, 20270), (222, 20273), (280, 20507), (289, 20540), (313, 20639), (336, 20714), (343, 20738), (348, 20753),

Gene: Plagueis_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Plagueis_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Pleakley_51 Start: 32339, Stop: 33457, Start Num: 51

Candidate Starts for Pleakley_51:

(Start: 51 @32339 has 2 MA's), (Start: 63 @32351 has 15 MA's), (88, 32408), (121, 32543), (126, 32564), (142, 32618), (164, 32705), (172, 32738), (191, 32807), (213, 32906), (231, 32975), (294, 33230), (310, 33293), (343, 33416), (344, 33419), (345, 33422),

Gene: Pokerus_24 Start: 19431, Stop: 20513, Start Num: 52

Candidate Starts for Pokerus_24:

(Start: 52 @19431 has 120 MA's), (96, 19539), (102, 19557), (105, 19575), (155, 19770), (156, 19773), (177, 19842), (199, 19914), (222, 20016), (280, 20250), (295, 20310), (310, 20364), (336, 20457), (348, 20496),

Gene: Polyuyki_46 Start: 32970, Stop: 34076, Start Num: 61

Candidate Starts for Polyuyki_46:

(Start: 61 @32970 has 47 MA's), (102, 33069), (118, 33162), (120, 33165), (129, 33195), (154, 33300), (161, 33312), (172, 33363), (211, 33525), (214, 33537), (232, 33603), (259, 33711), (267, 33756), (269, 33762), (273, 33780), (277, 33789), (279, 33795), (303, 33891), (306, 33900), (310, 33915), (317, 33954),

Gene: PrincePatrick_27 Start: 22630, Stop: 23694, Start Num: 58

Candidate Starts for PrincePatrick_27:

(Start: 58 @22630 has 44 MA's), (90, 22708), (95, 22729), (105, 22765), (106, 22768), (108, 22774), (146, 22930), (159, 22966), (164, 22987), (167, 23005), (184, 23059), (186, 23065), (200, 23113), (230, 23239), (267, 23395), (269, 23401), (279, 23431), (314, 23566), (325, 23599), (329, 23608), (343, 23662), (348, 23677), (350, 23683),

Gene: Prithvi_25 Start: 19448, Stop: 20530, Start Num: 52

Candidate Starts for Prithvi_25:

(Start: 52 @19448 has 120 MA's), (96, 19556), (102, 19574), (105, 19592), (155, 19787), (156, 19790), (177, 19859), (199, 19931), (222, 20033), (280, 20267), (295, 20327), (310, 20381), (336, 20474), (348, 20513),

Gene: Psycho_24 Start: 19805, Stop: 20890, Start Num: 56

Candidate Starts for Psycho_24:

(36, 19754), (Start: 56 @19805 has 40 MA's), (75, 19841), (80, 19856), (89, 19880), (100, 19919), (115, 20003), (146, 20114), (155, 20138), (156, 20141), (199, 20288), (222, 20393), (263, 20561), (287, 20645), (288, 20657), (315, 20768), (336, 20834),

Gene: QuincyRose_24 Start: 19494, Stop: 20576, Start Num: 52

Candidate Starts for QuincyRose_24:

(Start: 52 @19494 has 120 MA's), (96, 19602), (102, 19620), (105, 19638), (155, 19833), (156, 19836), (177, 19905), (199, 19977), (222, 20079), (280, 20313), (295, 20373), (310, 20427), (336, 20520), (348, 20559),

Gene: Rabbs_20 Start: 18947, Stop: 20083, Start Num: 33

Candidate Starts for Rabbs_20:

(4, 18476), (10, 18674), (18, 18743), (29, 18902), (Start: 33 @18947 has 64 MA's), (72, 19025), (74, 19028), (79, 19043), (86, 19061), (95, 19094), (100, 19109), (114, 19190), (146, 19304), (148, 19316), (177, 19403), (183, 19424), (187, 19445), (206, 19520), (227, 19598), (260, 19751), (280, 19826), (300, 19898), (309, 19934), (333, 20021), (346, 20066), (347, 20069),

Gene: Ramen_25 Start: 19480, Stop: 20562, Start Num: 52

Candidate Starts for Ramen_25:

(Start: 52 @19480 has 120 MA's), (96, 19588), (102, 19606), (105, 19624), (155, 19819), (156, 19822), (177, 19891), (199, 19963), (214, 20038), (222, 20065), (280, 20299), (295, 20359), (310, 20413), (336, 20506), (348, 20545),

Gene: Rando14_24 Start: 18493, Stop: 19578, Start Num: 56

Candidate Starts for Rando14_24:

(36, 18442), (Start: 56 @18493 has 40 MA's), (80, 18544), (89, 18568), (100, 18607), (146, 18802), (155, 18826), (156, 18829), (167, 18871), (199, 18976), (222, 19081), (274, 19297), (280, 19315), (287, 19333), (310, 19429), (315, 19456), (336, 19522), (343, 19546),

Gene: Rapunzel97_25 Start: 19481, Stop: 20563, Start Num: 52

Candidate Starts for Rapunzel97_25:

(Start: 52 @19481 has 120 MA's), (96, 19589), (102, 19607), (105, 19625), (155, 19820), (156, 19823), (177, 19892), (199, 19964), (222, 20066), (280, 20300), (295, 20360), (310, 20414), (336, 20507), (348, 20546),

Gene: Rem711_27 Start: 21349, Stop: 22434, Start Num: 67

Candidate Starts for Rem711_27:

(Start: 67 @21349 has 23 MA's), (88, 21412), (95, 21439), (100, 21454), (103, 21463), (106, 21481), (155, 21667), (169, 21718), (238, 21961), (274, 22129), (277, 22135), (305, 22267), (310, 22288), (327, 22345), (343, 22405), (347, 22417), (350, 22426),

Gene: Remy19_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Remy19_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Renaissance_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Renaissance_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Reptar3000_26 Start: 20663, Stop: 21763, Start Num: 56

Candidate Starts for Reptar3000_26:

(21, 20417), (23, 20444), (36, 20615), (Start: 56 @20663 has 40 MA's), (102, 20783), (109, 20816), (116, 20867), (144, 20966), (146, 20972), (177, 21068), (187, 21101), (194, 21122), (222, 21242), (226, 21254), (242, 21311), (247, 21344), (280, 21476), (287, 21494), (313, 21608), (315, 21617), (343, 21707), (354, 21743),

Gene: Rosmarinus_25 Start: 19502, Stop: 20584, Start Num: 52

Candidate Starts for Rosmarinus_25:

(Start: 52 @19502 has 120 MA's), (96, 19610), (102, 19628), (105, 19646), (155, 19841), (156, 19844), (177, 19913), (199, 19985), (214, 20060), (222, 20087), (280, 20321), (295, 20381), (310, 20435), (336, 20528), (348, 20567),

Gene: Ruthiejr_25 Start: 20557, Stop: 21654, Start Num: 56

Candidate Starts for Ruthiejr_25:

(21, 20308), (23, 20335), (36, 20506), (Start: 56 @20557 has 40 MA's), (Start: 67 @20569 has 23 MA's), (102, 20677), (109, 20710), (146, 20866), (156, 20893), (177, 20962), (187, 20995), (215, 21112), (222, 21136), (234, 21178), (242, 21205), (287, 21388), (313, 21502), (315, 21511), (348, 21616),

Gene: Ruthy_21 Start: 18482, Stop: 19582, Start Num: 63

Candidate Starts for Ruthy_21:

(17, 18200), (27, 18308), (Start: 63 @18482 has 15 MA's), (96, 18578), (105, 18614), (167, 18857), (169, 18863), (189, 18923), (221, 19040), (240, 19118), (263, 19226), (264, 19229), (274, 19274), (279, 19286), (283, 19301), (310, 19436), (326, 19487), (327, 19493), (350, 19574),

Gene: SamScheppers_24 Start: 20464, Stop: 21561, Start Num: 56

Candidate Starts for SamScheppers_24:

(21, 20215), (23, 20242), (36, 20413), (Start: 56 @20464 has 40 MA's), (Start: 67 @20476 has 23 MA's), (102, 20584), (109, 20617), (116, 20668), (146, 20773), (156, 20800), (177, 20869), (187, 20902), (199, 20941), (215, 21019), (222, 21043), (234, 21085), (242, 21112), (287, 21295), (313, 21409), (315, 21418), (348, 21523),

Gene: Samba_27 Start: 22397, Stop: 23464, Start Num: 58

Candidate Starts for Samba_27:

(Start: 58 @22397 has 44 MA's), (72, 22427), (90, 22475), (93, 22490), (105, 22532), (129, 22628), (133, 22637), (146, 22697), (159, 22733), (164, 22754), (179, 22811), (184, 22829), (186, 22835), (194, 22868), (200, 22883), (230, 23009), (255, 23105), (267, 23165), (269, 23171), (279, 23201),

(348, 23447),

Gene: SamuelLPlaqson_25 Start: 19428, Stop: 20510, Start Num: 52

Candidate Starts for SamuelLPlaqson_25:

(Start: 52 @19428 has 120 MA's), (96, 19536), (102, 19554), (105, 19572), (155, 19767), (156, 19770), (177, 19839), (187, 19872), (199, 19911), (221, 20010), (222, 20013), (242, 20082), (263, 20181), (280, 20247), (282, 20253), (287, 20265), (288, 20277), (343, 20481), (348, 20496),

Gene: Sapo_24 Start: 20295, Stop: 21383, Start Num: 58

Candidate Starts for Sapo_24:

(Start: 58 @20295 has 44 MA's), (77, 20337), (95, 20394), (125, 20517), (172, 20685), (178, 20706), (184, 20727), (186, 20733), (191, 20757), (242, 20946), (250, 20991), (256, 21006), (267, 21063), (302, 21198), (309, 21222), (337, 21327), (348, 21363), (350, 21369), (352, 21375),

Gene: Scarlett_24 Start: 18720, Stop: 19802, Start Num: 52

Candidate Starts for Scarlett_24:

(Start: 52 @18720 has 120 MA's), (Start: 68 @18741 has 5 MA's), (80, 18777), (89, 18801), (96, 18828), (102, 18846), (109, 18879), (155, 19059), (156, 19062), (177, 19131), (199, 19203), (222, 19305), (263, 19473), (280, 19539), (310, 19653), (315, 19680), (320, 19692), (348, 19785),

Gene: Schiebel_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Schiebel_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Schmidt_24 Start: 17816, Stop: 18928, Start Num: 61

Candidate Starts for Schmidt_24:

(47, 17798), (49, 17801), (Start: 61 @17816 has 47 MA's), (97, 17912), (100, 17921), (102, 17927), (151, 18140), (154, 18146), (165, 18188), (168, 18197), (188, 18269), (220, 18404), (248, 18509), (255, 18536), (256, 18539), (269, 18602), (271, 18614), (276, 18626), (289, 18668), (308, 18749), (312, 18770), (315, 18785), (320, 18806), (333, 18848), (335, 18857), (341, 18878), (353, 18920),

Gene: SgtBeansprout_21 Start: 19023, Stop: 20105, Start Num: 52

Candidate Starts for SgtBeansprout_21:

(Start: 52 @19023 has 120 MA's), (80, 19080), (96, 19131), (102, 19149), (105, 19167), (115, 19227), (116, 19233), (144, 19332), (155, 19362), (156, 19365), (169, 19413), (186, 19455), (187, 19467), (222, 19608), (226, 19620), (280, 19842), (301, 19917), (313, 19974), (324, 20004), (336, 20049), (348, 20088),

Gene: ShaboiShabazz_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for ShaboiShabazz_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: Shadow1_23 Start: 18520, Stop: 19602, Start Num: 52

Candidate Starts for Shadow1_23:

(Start: 52 @18520 has 120 MA's), (62, 18535), (86, 18592), (96, 18628), (102, 18646), (144, 18829), (155, 18859), (156, 18862), (177, 18931), (199, 19003), (201, 19012), (222, 19105), (228, 19126), (230, 19132), (280, 19339), (315, 19480), (336, 19546), (343, 19570), (348, 19585),

Gene: Shaobing_25 Start: 18838, Stop: 19920, Start Num: 52

Candidate Starts for Shaobing_25:

(Start: 52 @18838 has 120 MA's), (96, 18946), (102, 18964), (105, 18982), (144, 19147), (155, 19177), (156, 19180), (169, 19228), (187, 19282), (226, 19435), (260, 19582), (280, 19657), (301, 19732), (336, 19864), (343, 19888), (348, 19903),

Gene: ShedlockHolmes_24 Start: 19891, Stop: 20979, Start Num: 57

Candidate Starts for ShedlockHolmes_24:

(Start: 57 @19891 has 17 MA's), (Start: 67 @19903 has 23 MA's), (Start: 68 @19906 has 5 MA's), (86, 19957), (96, 19993), (102, 20011), (105, 20029), (109, 20044), (132, 20140), (144, 20206), (146, 20212), (156, 20239), (177, 20308), (187, 20341), (201, 20389), (205, 20407), (221, 20479), (222, 20482), (280, 20716), (289, 20749), (313, 20848), (336, 20923), (343, 20947), (348, 20962),

Gene: ShiaSurprise_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for ShiaSurprise_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: SirPhilip_24 Start: 18337, Stop: 19440, Start Num: 52

Candidate Starts for SirPhilip_24:

(Start: 52 @18337 has 120 MA's), (80, 18394), (89, 18418), (96, 18445), (102, 18463), (156, 18679), (177, 18748), (195, 18805), (222, 18922), (228, 18964), (230, 18970), (280, 19177), (288, 19207), (343, 19408), (348, 19423),

Gene: Sizemore_20 Start: 18862, Stop: 19998, Start Num: 33

Candidate Starts for Sizemore_20:

(18, 18658), (29, 18817), (Start: 33 @18862 has 64 MA's), (72, 18940), (74, 18943), (75, 18946), (79, 18958), (86, 18976), (95, 19009), (100, 19024), (114, 19105), (146, 19219), (148, 19231), (177, 19318), (183, 19339), (206, 19435), (227, 19513), (260, 19666), (287, 19759), (309, 19849), (324, 19903), (329, 19918), (330, 19921), (333, 19936), (346, 19981), (347, 19984),

Gene: Skysand_44 Start: 32569, Stop: 33678, Start Num: 61

Candidate Starts for Skysand_44:

(1, 31483), (2, 31516), (3, 31996), (Start: 61 @32569 has 47 MA's), (88, 32629), (107, 32689), (142, 32839), (172, 32959), (182, 32992), (195, 33040), (213, 33127), (220, 33157), (257, 33301), (277, 33385), (315, 33541), (326, 33574), (343, 33637),

Gene: Slarp_26 Start: 20936, Stop: 22033, Start Num: 56

Candidate Starts for Slarp_26:

(21, 20687), (23, 20714), (36, 20885), (Start: 56 @20936 has 40 MA's), (Start: 67 @20948 has 23 MA's), (102, 21056), (109, 21089), (146, 21245), (156, 21272), (177, 21341), (187, 21374), (199, 21413), (215, 21491), (222, 21515), (234, 21557), (242, 21584), (287, 21767), (313, 21881), (315, 21890), (348, 21995),

Gene: Slimphazie_25 Start: 19481, Stop: 20563, Start Num: 52

Candidate Starts for Slimphazie_25:

(Start: 52 @19481 has 120 MA's), (96, 19589), (102, 19607), (105, 19625), (155, 19820), (156, 19823), (177, 19892), (199, 19964), (222, 20066), (280, 20300), (295, 20360), (310, 20414), (336, 20507), (348, 20546),

Gene: Smoothie_57 Start: 34742, Stop: 35824, Start Num: 64

Candidate Starts for Smoothie_57:

(Start: 64 @34742 has 21 MA's), (78, 34781), (85, 34802), (117, 34949), (145, 35039), (152, 35069), (170, 35129), (191, 35198), (254, 35435), (259, 35453), (265, 35486), (277, 35528), (297, 35621), (309, 35666), (328, 35741), (329, 35744), (345, 35804), (346, 35807),

Gene: Sneeze_20 Start: 18946, Stop: 20082, Start Num: 33

Candidate Starts for Sneeze_20:

(4, 18475), (10, 18673), (18, 18742), (29, 18901), (Start: 33 @18946 has 64 MA's), (72, 19024), (74, 19027), (79, 19042), (86, 19060), (95, 19093), (100, 19108), (114, 19189), (146, 19303), (148, 19315), (177, 19402), (183, 19423), (187, 19444), (206, 19519), (227, 19597), (260, 19750), (280, 19825), (300, 19897), (309, 19933), (333, 20020), (346, 20065), (347, 20068),

Gene: SoSeph_23 Start: 19922, Stop: 21007, Start Num: 56

Candidate Starts for SoSeph_23:

(36, 19871), (Start: 56 @19922 has 40 MA's), (75, 19958), (80, 19973), (89, 19997), (100, 20036), (115, 20120), (146, 20231), (155, 20255), (156, 20258), (199, 20405), (222, 20510), (280, 20744), (287, 20762), (310, 20858), (315, 20885), (336, 20951),

Gene: SpeedDemon_380 Start: 33688, Stop: 34761, Start Num: 64

Candidate Starts for SpeedDemon_380:

(Start: 64 @33688 has 21 MA's), (78, 33727), (101, 33799), (106, 33823), (117, 33892), (152, 34012), (170, 34072), (175, 34081), (176, 34084), (186, 34117), (209, 34210), (238, 34306), (313, 34624),

Gene: Splinter_26 Start: 19531, Stop: 20649, Start Num: 61

Candidate Starts for Splinter_26:

(Start: 61 @19531 has 47 MA's), (79, 19573), (94, 19621), (98, 19633), (117, 19735), (143, 19822), (144, 19825), (166, 19909), (172, 19927), (194, 20002), (220, 20122), (256, 20257), (269, 20320), (276, 20344), (297, 20425), (299, 20434), (309, 20473), (312, 20491), (314, 20503), (315, 20506), (316, 20509), (333, 20569),

Gene: Spock_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Spock_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: StarStruck_43 Start: 32088, Stop: 33197, Start Num: 61

Candidate Starts for StarStruck_43:

(Start: 61 @32088 has 47 MA's), (88, 32148), (118, 32277), (120, 32280), (142, 32358), (163, 32433), (182, 32511), (213, 32646), (220, 32676), (234, 32724), (245, 32772), (269, 32877), (284, 32931), (310, 33033), (326, 33093),

Gene: Stargaze_20 Start: 19298, Stop: 20440, Start Num: 33

Candidate Starts for Stargaze_20:

(Start: 33 @19298 has 64 MA's), (72, 19382), (79, 19400), (95, 19451), (100, 19466), (114, 19547), (148, 19673), (177, 19760), (187, 19802), (206, 19877), (208, 19886), (223, 19946), (233, 19988), (293, 20240), (309, 20291), (330, 20363), (348, 20429),

Gene: Stinson_25 Start: 19449, Stop: 20531, Start Num: 52

Candidate Starts for Stinson_25:

(Start: 52 @19449 has 120 MA's), (96, 19557), (102, 19575), (105, 19593), (155, 19788), (156, 19791), (177, 19860), (187, 19893), (199, 19932), (222, 20034), (256, 20169), (280, 20268), (287, 20286), (295, 20328), (310, 20382),

Gene: Strobilo_22 Start: 17342, Stop: 18418, Start Num: 57

Candidate Starts for Strobilo_22:

(28, 17201), (Start: 57 @17342 has 17 MA's), (89, 17417), (96, 17444), (100, 17456), (102, 17462), (109, 17495), (156, 17678), (169, 17726), (177, 17747), (222, 17921), (230, 17948), (242, 17990), (247, 18023), (301, 18230), (310, 18269),

Gene: Sukkupi_44 Start: 31114, Stop: 32229, Start Num: 66

Candidate Starts for Sukkupi_44:

(Start: 66 @31114 has 7 MA's), (80, 31156), (88, 31180), (102, 31216), (111, 31264), (120, 31312), (163, 31465), (211, 31672), (213, 31678), (220, 31708), (242, 31783), (259, 31858), (265, 31891), (272, 31924), (277, 31936), (315, 32092), (331, 32146), (335, 32161), (343, 32188),

Gene: Sulley_25 Start: 19447, Stop: 20529, Start Num: 52

Candidate Starts for Sulley_25:

(Start: 52 @19447 has 120 MA's), (96, 19555), (102, 19573), (105, 19591), (155, 19786), (156, 19789), (177, 19858), (199, 19930), (214, 20005), (222, 20032), (270, 20233), (280, 20266), (295, 20326), (310, 20380), (336, 20473), (348, 20512),

Gene: Sunflower1121_23 Start: 18532, Stop: 19614, Start Num: 52

Candidate Starts for Sunflower1121_23:

(Start: 52 @18532 has 120 MA's), (62, 18547), (86, 18604), (96, 18640), (102, 18658), (144, 18841), (155, 18871), (156, 18874), (177, 18943), (199, 19015), (201, 19024), (222, 19117), (228, 19138), (230, 19144), (280, 19351), (315, 19492), (336, 19558), (343, 19582), (348, 19597),

Gene: SuperSulley_43 Start: 32276, Stop: 33385, Start Num: 61

Candidate Starts for SuperSulley_43:

(Start: 61 @32276 has 47 MA's), (88, 32336), (118, 32465), (120, 32468), (142, 32546), (159, 32612), (163, 32621), (213, 32834), (214, 32840), (220, 32864), (234, 32912), (245, 32960), (269, 33065), (272, 33080), (288, 33131), (310, 33221), (326, 33281),

Gene: Sweets_20 Start: 18856, Stop: 19992, Start Num: 33

Candidate Starts for Sweets_20:

(18, 18652), (29, 18811), (Start: 33 @18856 has 64 MA's), (72, 18934), (74, 18937), (75, 18940), (79, 18952), (86, 18970), (95, 19003), (100, 19018), (114, 19099), (146, 19213), (148, 19225), (177, 19312), (183, 19333), (206, 19429), (227, 19507), (260, 19660), (287, 19753), (309, 19843), (324, 19897), (329, 19912), (330, 19915), (333, 19930), (346, 19975), (347, 19978),

Gene: Syra333_24 Start: 18627, Stop: 19709, Start Num: 52

Candidate Starts for Syra333_24:

(Start: 52 @18627 has 120 MA's), (62, 18642), (86, 18699), (96, 18735), (102, 18753), (144, 18936), (150, 18954), (155, 18966), (156, 18969), (177, 19038), (199, 19110), (222, 19212), (228, 19233), (230, 19239), (280, 19446), (336, 19653), (343, 19677), (348, 19692),

Gene: TBond007_24 Start: 19681, Stop: 20769, Start Num: 57

Candidate Starts for TBond007_24:

(Start: 57 @19681 has 17 MA's), (Start: 67 @19693 has 23 MA's), (Start: 68 @19696 has 5 MA's), (86, 19747), (96, 19783), (102, 19801), (105, 19819), (109, 19834), (132, 19930), (144, 19996), (156, 20029), (177, 20098), (187, 20131), (205, 20197), (221, 20269), (222, 20272), (280, 20506), (289, 20539), (313, 20638), (336, 20713), (343, 20737), (348, 20752),

Gene: TClif_25 Start: 18685, Stop: 19767, Start Num: 54

Candidate Starts for TClif_25:

(Start: 54 @18685 has 1 MA's), (75, 18727), (96, 18793), (102, 18811), (144, 18994), (155, 19024), (156, 19027), (177, 19096), (187, 19129), (230, 19297), (280, 19504), (309, 19612), (336, 19711),

Gene: TM4_21 Start: 17408, Stop: 18484, Start Num: 57

Candidate Starts for TM4_21:

(28, 17267), (39, 17366), (Start: 57 @17408 has 17 MA's), (89, 17483), (96, 17510), (100, 17522), (102, 17528), (109, 17561), (130, 17654), (156, 17744), (177, 17813), (187, 17846), (222, 17987), (230, 18014), (242, 18056), (280, 18221), (310, 18335), (313, 18353), (315, 18362),

Gene: TPA4_22 Start: 20165, Stop: 21250, Start Num: 63

Candidate Starts for TPA4_22:

(45, 20129), (Start: 63 @20165 has 15 MA's), (80, 20210), (81, 20213), (85, 20225), (88, 20234), (95, 20261), (105, 20300), (106, 20303), (108, 20309), (110, 20318), (113, 20345), (115, 20360), (155, 20498), (188, 20591), (197, 20618), (236, 20792), (239, 20801), (240, 20804), (251, 20861), (260, 20906), (290, 21029), (327, 21155), (334, 21185),

Gene: TZGordon_28 Start: 19670, Stop: 20788, Start Num: 61

Candidate Starts for TZGordon_28:

(Start: 61 @19670 has 47 MA's), (79, 19712), (94, 19760), (98, 19772), (117, 19874), (143, 19961), (144, 19964), (166, 20048), (172, 20066), (194, 20141), (220, 20261), (256, 20396), (269, 20459), (276, 20483), (297, 20564), (299, 20573), (314, 20642), (315, 20645), (316, 20648), (333, 20708), (335, 20717),

Gene: Tachez_25 Start: 19443, Stop: 20525, Start Num: 52

Candidate Starts for Tachez_25:

(Start: 52 @19443 has 120 MA's), (96, 19551), (102, 19569), (105, 19587), (155, 19782), (156, 19785), (177, 19854), (199, 19926), (222, 20028), (280, 20262), (295, 20322), (310, 20376), (336, 20469), (348, 20508),

Gene: Taheera_20 Start: 18956, Stop: 20092, Start Num: 33

Candidate Starts for Taheera_20:

(29, 18911), (Start: 33 @18956 has 64 MA's), (72, 19034), (74, 19037), (79, 19052), (86, 19070), (95, 19103), (100, 19118), (114, 19199), (146, 19313), (148, 19325), (177, 19412), (183, 19433), (187, 19454), (206, 19529), (227, 19607), (260, 19760), (280, 19835), (300, 19907), (309, 19943), (333, 20030), (346, 20075), (347, 20078),

Gene: TaiwanKao_26 Start: 19454, Stop: 20536, Start Num: 52

Candidate Starts for TaiwanKao_26:

(Start: 52 @19454 has 120 MA's), (96, 19562), (102, 19580), (155, 19793), (156, 19796), (177, 19865), (199, 19937), (222, 20039), (280, 20273), (295, 20333), (310, 20387), (336, 20480), (348, 20519),

Gene: Taquito_24 Start: 20545, Stop: 21642, Start Num: 56

Candidate Starts for Taquito_24:

(21, 20296), (23, 20323), (36, 20494), (Start: 56 @20545 has 40 MA's), (Start: 67 @20557 has 23 MA's), (102, 20665), (109, 20698), (116, 20749), (146, 20854), (156, 20881), (177, 20950), (187, 20983), (199, 21022), (215, 21100), (222, 21124), (234, 21166), (242, 21193), (287, 21376), (313, 21490), (315, 21499), (348, 21604),

Gene: Terror_20 Start: 18956, Stop: 20092, Start Num: 33

Candidate Starts for Terror_20:

(29, 18911), (Start: 33 @18956 has 64 MA's), (72, 19034), (74, 19037), (79, 19052), (86, 19070), (95, 19103), (100, 19118), (114, 19199), (146, 19313), (148, 19325), (177, 19412), (183, 19433), (187,

19454), (206, 19529), (227, 19607), (260, 19760), (280, 19835), (300, 19907), (309, 19943), (333, 20030), (346, 20075), (347, 20078),

Gene: Thyatira_23 Start: 19774, Stop: 20859, Start Num: 56

Candidate Starts for Thyatira_23:

(36, 19723), (Start: 56 @19774 has 40 MA's), (75, 19810), (80, 19825), (89, 19849), (100, 19888), (115, 19972), (146, 20083), (155, 20107), (156, 20110), (199, 20257), (222, 20362), (280, 20596), (287, 20614), (310, 20710), (315, 20737), (336, 20803), (343, 20827),

Gene: Tierra_24 Start: 19346, Stop: 20449, Start Num: 52

Candidate Starts for Tierra_24:

(Start: 52 @19346 has 120 MA's), (62, 19361), (86, 19418), (96, 19454), (102, 19472), (144, 19655), (155, 19685), (177, 19757), (201, 19838), (222, 19931), (230, 19979), (234, 19994), (242, 20021), (280, 20186), (336, 20393), (343, 20417), (348, 20432),

Gene: TinaLin_29 Start: 20510, Stop: 21625, Start Num: 61

Candidate Starts for TinaLin_29:

(Start: 61 @20510 has 47 MA's), (99, 20615), (117, 20714), (141, 20783), (143, 20801), (144, 20804), (168, 20894), (172, 20906), (220, 21101), (269, 21299), (276, 21323), (279, 21329), (297, 21404), (299, 21413), (308, 21449), (314, 21482), (333, 21548),

Gene: TiniBug_25 Start: 19425, Stop: 20507, Start Num: 52

Candidate Starts for TiniBug_25:

(Start: 52 @19425 has 120 MA's), (96, 19533), (102, 19551), (105, 19569), (143, 19731), (155, 19764), (156, 19767), (177, 19836), (187, 19869), (199, 19908), (221, 20007), (222, 20010), (242, 20079), (263, 20178), (280, 20244), (282, 20250), (287, 20262), (288, 20274), (343, 20478), (348, 20493),

Gene: Tiri_25 Start: 19486, Stop: 20568, Start Num: 52

Candidate Starts for Tiri_25:

(Start: 52 @19486 has 120 MA's), (96, 19594), (102, 19612), (105, 19630), (155, 19825), (156, 19828), (177, 19897), (222, 20071), (280, 20305), (295, 20365), (310, 20419), (336, 20512), (348, 20551),

Gene: Toast_28 Start: 22551, Stop: 23615, Start Num: 58

Candidate Starts for Toast_28:

(Start: 58 @22551 has 44 MA's), (90, 22629), (95, 22650), (105, 22686), (106, 22689), (108, 22695), (146, 22851), (159, 22887), (164, 22908), (167, 22926), (184, 22980), (186, 22986), (200, 23034), (230, 23160), (267, 23316), (269, 23322), (279, 23352), (314, 23487), (325, 23520), (329, 23529), (343, 23583), (348, 23598), (350, 23604),

Gene: TomBrady_20 Start: 18862, Stop: 19998, Start Num: 33

Candidate Starts for TomBrady_20:

(18, 18658), (29, 18817), (Start: 33 @18862 has 64 MA's), (72, 18940), (74, 18943), (75, 18946), (79, 18958), (86, 18976), (95, 19009), (100, 19024), (114, 19105), (146, 19219), (148, 19231), (177, 19318), (183, 19339), (206, 19435), (227, 19513), (260, 19666), (287, 19759), (309, 19849), (324, 19903), (329, 19918), (330, 19921), (333, 19936), (346, 19981), (347, 19984),

Gene: Toniann_55 Start: 34229, Stop: 35311, Start Num: 64

Candidate Starts for Toniann_55:

(Start: 64 @34229 has 21 MA's), (78, 34268), (85, 34289), (117, 34436), (145, 34526), (152, 34556), (170, 34616), (191, 34685), (254, 34922), (259, 34940), (265, 34973), (277, 35015), (297, 35108), (309, 35153), (328, 35228), (329, 35231), (345, 35291), (346, 35294),

Gene: Topper_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Topper_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Tracker_42 Start: 31257, Stop: 32384, Start Num: 61

Candidate Starts for Tracker_42:

(Start: 61 @31257 has 47 MA's), (102, 31362), (106, 31383), (142, 31536), (163, 31611), (182, 31689), (190, 31722), (208, 31803), (216, 31848), (222, 31869), (231, 31902), (246, 31962), (335, 32316), (345, 32349),

Gene: TreyKay_25 Start: 19448, Stop: 20530, Start Num: 52

Candidate Starts for TreyKay_25:

(Start: 52 @19448 has 120 MA's), (96, 19556), (102, 19574), (105, 19592), (155, 19787), (156, 19790), (177, 19859), (199, 19931), (222, 20033), (280, 20267), (295, 20327), (310, 20381), (336, 20474), (348, 20513),

Gene: TribbleTrouble_23 Start: 19718, Stop: 20806, Start Num: 57

Candidate Starts for TribbleTrouble_23:

(Start: 57 @19718 has 17 MA's), (Start: 67 @19730 has 23 MA's), (Start: 68 @19733 has 5 MA's), (86, 19784), (91, 19796), (96, 19820), (102, 19838), (105, 19856), (109, 19871), (115, 19916), (132, 19967), (144, 20033), (156, 20066), (177, 20135), (205, 20234), (221, 20306), (222, 20309), (280, 20543), (313, 20675), (336, 20750), (343, 20774), (348, 20789),

Gene: TruffulaTree_25 Start: 19477, Stop: 20559, Start Num: 52

Candidate Starts for TruffulaTree_25:

(Start: 52 @19477 has 120 MA's), (96, 19585), (102, 19603), (105, 19621), (155, 19816), (156, 19819), (177, 19888), (199, 19960), (214, 20035), (222, 20062), (280, 20296), (295, 20356), (310, 20410), (336, 20503), (348, 20542),

Gene: Turuncu_46 Start: 32551, Stop: 33660, Start Num: 61

Candidate Starts for Turuncu_46:

(Start: 61 @32551 has 47 MA's), (87, 32608), (88, 32611), (213, 33109), (220, 33139), (231, 33178), (315, 33523), (326, 33556),

Gene: Twitch_25 Start: 19514, Stop: 20596, Start Num: 52

Candidate Starts for Twitch_25:

(Start: 52 @19514 has 120 MA's), (96, 19622), (102, 19640), (105, 19658), (155, 19853), (156, 19856), (177, 19925), (199, 19997), (214, 20072), (222, 20099), (280, 20333), (295, 20393), (310, 20447), (336, 20540), (348, 20579),

Gene: Typha_26 Start: 21990, Stop: 23429, Start Num: 9

Candidate Starts for Typha_26:

(Start: 9 @21990 has 4 MA's), (11, 22011), (13, 22029), (14, 22032), (15, 22047), (21, 22077), (24, 22116), (25, 22143), (26, 22149), (40, 22287), (70, 22356), (83, 22389), (106, 22473), (108, 22479), (137, 22608), (139, 22614), (142, 22629), (155, 22677), (158, 22683), (160, 22686), (171, 22734), (187, 22773), (193, 22791), (202, 22824), (211, 22875), (220, 22908), (233, 22968), (237, 22980), (242, 22998), (263, 23097), (280, 23163), (310, 23277), (314, 23301), (315, 23304), (334, 23373), (347, 23415),

Gene: Ubuntu_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Ubuntu_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: UmaThurman_27 Start: 22444, Stop: 23511, Start Num: 58

Candidate Starts for UmaThurman_27:

(Start: 58 @22444 has 44 MA's), (72, 22474), (90, 22522), (93, 22537), (105, 22579), (106, 22582), (125, 22666), (129, 22675), (133, 22684), (146, 22744), (159, 22780), (164, 22801), (178, 22855), (184, 22876), (186, 22882), (194, 22915), (200, 22930), (230, 23056), (255, 23152), (267, 23212), (269, 23218), (279, 23248), (348, 23494),

Gene: Unicorn_24 Start: 18672, Stop: 19775, Start Num: 52

Candidate Starts for Unicorn_24:

(Start: 52 @18672 has 120 MA's), (62, 18687), (86, 18744), (96, 18780), (102, 18798), (144, 18981), (155, 19011), (177, 19083), (222, 19257), (230, 19305), (234, 19320), (280, 19512), (309, 19620), (336, 19719), (343, 19743), (348, 19758),

Gene: Urkel_25 Start: 19428, Stop: 20510, Start Num: 52

Candidate Starts for Urkel_25:

(Start: 52 @19428 has 120 MA's), (96, 19536), (102, 19554), (105, 19572), (155, 19767), (156, 19770), (177, 19839), (187, 19872), (199, 19911), (221, 20010), (222, 20013), (242, 20082), (263, 20181), (280, 20247), (282, 20253), (287, 20265), (288, 20277), (343, 20481), (348, 20496),

Gene: Utz_27 Start: 22311, Stop: 23378, Start Num: 58

Candidate Starts for Utz_27:

(Start: 58 @22311 has 44 MA's), (72, 22341), (90, 22389), (93, 22404), (95, 22410), (105, 22446), (106, 22449), (129, 22542), (146, 22611), (159, 22647), (184, 22743), (186, 22749), (192, 22776), (200, 22797), (248, 22995), (257, 23028), (269, 23085), (279, 23115), (280, 23121), (329, 23292), (348, 23361),

Gene: Validus_25 Start: 18769, Stop: 19851, Start Num: 52

Candidate Starts for Validus_25:

(Start: 52 @18769 has 120 MA's), (96, 18877), (102, 18895), (144, 19078), (155, 19108), (156, 19111), (169, 19159), (188, 19216), (222, 19354), (226, 19366), (264, 19525), (280, 19588), (301, 19663), (324, 19750), (336, 19795), (348, 19834),

Gene: Veliki_25 Start: 19517, Stop: 20599, Start Num: 52

Candidate Starts for Veliki_25:

(Start: 52 @19517 has 120 MA's), (96, 19625), (102, 19643), (105, 19661), (155, 19856), (156, 19859), (177, 19928), (199, 20000), (222, 20102), (280, 20336), (295, 20396), (310, 20450), (336, 20543), (348, 20582),

Gene: Vendetta_26 Start: 19531, Stop: 20649, Start Num: 61

Candidate Starts for Vendetta_26:

(Start: 61 @19531 has 47 MA's), (79, 19573), (94, 19621), (98, 19633), (117, 19735), (143, 19822), (144, 19825), (166, 19909), (172, 19927), (194, 20002), (220, 20122), (256, 20257), (269, 20320), (276, 20344), (297, 20425), (299, 20434), (309, 20473), (312, 20491), (314, 20503), (315, 20506), (316, 20509), (333, 20569),

Gene: Vordorf_28 Start: 22926, Stop: 23990, Start Num: 68

Candidate Starts for Vordorf_28:

(Start: 68 @22926 has 5 MA's), (79, 22959), (85, 22977), (96, 23016), (97, 23019), (106, 23055), (108, 23061), (109, 23067), (187, 23355), (199, 23394), (215, 23475), (217, 23481), (232, 23529), (238, 23547), (254, 23622), (266, 23673), (278, 23718), (280, 23721), (315, 23868), (327, 23898), (345, 23964), (351, 23982),

Gene: Walrus_29 Start: 22859, Stop: 23926, Start Num: 58

Candidate Starts for Walrus_29:

(Start: 58 @22859 has 44 MA's), (72, 22889), (90, 22937), (93, 22952), (105, 22994), (118, 23066), (129, 23090), (133, 23099), (146, 23159), (159, 23195), (164, 23216), (179, 23273), (184, 23291), (186, 23297), (194, 23330), (200, 23345), (230, 23471), (255, 23567), (267, 23627), (269, 23633), (279, 23663), (302, 23744), (348, 23909),

Gene: Waterfoul_23 Start: 19795, Stop: 20880, Start Num: 56

Candidate Starts for Waterfoul_23:

(36, 19744), (Start: 56 @19795 has 40 MA's), (75, 19831), (80, 19846), (89, 19870), (100, 19909), (115, 19993), (146, 20104), (155, 20128), (156, 20131), (199, 20278), (222, 20383), (280, 20617), (287, 20635), (310, 20731), (315, 20758), (336, 20824), (343, 20848),

Gene: Webster2_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Webster2_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Weirido19_21 Start: 18379, Stop: 19518, Start Num: 54

Candidate Starts for Weirido19_21:

(5, 17932), (7, 17980), (22, 18148), (31, 18304), (42, 18346), (Start: 54 @18379 has 1 MA's), (65, 18394), (Start: 68 @18400 has 5 MA's), (83, 18445), (103, 18511), (107, 18532), (187, 18841), (200, 18886), (207, 18925), (211, 18943), (226, 18988), (240, 19051), (242, 19060), (277, 19219), (279, 19225), (310, 19372), (315, 19399), (323, 19417), (327, 19429), (350, 19510),

Gene: WheatThin_24 Start: 19505, Stop: 20605, Start Num: 63

Candidate Starts for WheatThin_24:

(Start: 63 @19505 has 15 MA's), (83, 19556), (105, 19637), (162, 19850), (169, 19886), (203, 19994), (227, 20081), (256, 20216), (264, 20252), (266, 20261), (274, 20297), (289, 20363), (298, 20408), (310, 20459), (315, 20486), (322, 20504), (345, 20582), (350, 20597),

Gene: Wheezy_42 Start: 31462, Stop: 32589, Start Num: 61

Candidate Starts for Wheezy_42:

(Start: 61 @31462 has 47 MA's), (102, 31567), (142, 31741), (163, 31816), (182, 31894), (190, 31927), (208, 32008), (216, 32053), (222, 32074), (231, 32107), (246, 32167), (335, 32521), (345, 32554),

Gene: WhoseManz_44 Start: 29160, Stop: 30275, Start Num: 66

Candidate Starts for WhoseManz_44:

(Start: 66 @29160 has 7 MA's), (80, 29202), (88, 29226), (102, 29262), (111, 29310), (120, 29358), (163, 29511), (211, 29718), (213, 29724), (220, 29754), (259, 29904), (265, 29937), (272, 29970), (277, 29982), (315, 30138), (331, 30192), (335, 30207), (343, 30234),

Gene: William_28 Start: 22377, Stop: 23441, Start Num: 58

Candidate Starts for William_28:

(Start: 58 @22377 has 44 MA's), (90, 22455), (95, 22476), (105, 22512), (106, 22515), (108, 22521), (146, 22677), (149, 22692), (159, 22713), (164, 22734), (167, 22752), (184, 22806), (200, 22860), (230, 22986), (267, 23142), (269, 23148), (279, 23178), (314, 23313), (325, 23346), (329, 23355), (343, 23409), (348, 23424), (350, 23430),

Gene: WilliamBoone_55 Start: 33575, Stop: 34657, Start Num: 64

Candidate Starts for WilliamBoone_55:

(Start: 64 @33575 has 21 MA's), (78, 33614), (105, 33710), (117, 33782), (145, 33872), (247, 34244), (265, 34319), (277, 34361), (297, 34454), (314, 34529), (346, 34640),

Gene: Wintermute_26 Start: 20925, Stop: 22022, Start Num: 56

Candidate Starts for Wintermute_26:

(21, 20676), (23, 20703), (36, 20874), (Start: 56 @20925 has 40 MA's), (Start: 67 @20937 has 23 MA's), (102, 21045), (109, 21078), (146, 21234), (156, 21261), (177, 21330), (187, 21363), (215, 21480), (222, 21504), (234, 21546), (242, 21573), (287, 21756), (313, 21870), (315, 21879), (348, 21984),

Gene: Wishmaker_24 Start: 19750, Stop: 20853, Start Num: 67

Candidate Starts for Wishmaker_24:

(19, 19483), (Start: 67 @19750 has 23 MA's), (100, 19855), (102, 19861), (103, 19864), (105, 19879), (106, 19882), (107, 19885), (108, 19888), (110, 19897), (127, 19981), (135, 19996), (146, 20047), (167, 20116), (169, 20122), (175, 20134), (177, 20143), (199, 20215), (211, 20278), (221, 20308), (222, 20311), (243, 20407), (252, 20446), (255, 20461), (279, 20560), (281, 20569), (296, 20641), (313, 20725), (326, 20758), (327, 20764), (350, 20845),

Gene: Wisp_26 Start: 22029, Stop: 23096, Start Num: 58

Candidate Starts for Wisp_26:

(Start: 58 @22029 has 44 MA's), (72, 22059), (90, 22107), (93, 22122), (105, 22164), (106, 22167), (108, 22173), (125, 22251), (129, 22260), (133, 22269), (146, 22329), (159, 22365), (179, 22443), (184, 22461), (186, 22467), (194, 22500), (200, 22515), (230, 22641), (255, 22737), (269, 22803), (279, 22833), (348, 23079),

Gene: Wocket_29 Start: 22996, Stop: 24063, Start Num: 58

Candidate Starts for Wocket_29:

(Start: 58 @22996 has 44 MA's), (90, 23074), (93, 23089), (105, 23131), (108, 23140), (133, 23236), (146, 23296), (159, 23332), (164, 23353), (167, 23371), (178, 23407), (184, 23428), (186, 23434), (192, 23461), (200, 23482), (230, 23608), (269, 23770), (279, 23800), (280, 23806), (329, 23977), (348, 24046),

Gene: Ximenita_25 Start: 18805, Stop: 19887, Start Num: 52

Candidate Starts for Ximenita_25:

(Start: 52 @18805 has 120 MA's), (62, 18820), (86, 18877), (96, 18913), (102, 18931), (144, 19114), (155, 19144), (156, 19147), (177, 19216), (222, 19390), (228, 19411), (230, 19417), (280, 19624), (336, 19831), (343, 19855), (348, 19870),

Gene: Y10_26 Start: 20925, Stop: 22022, Start Num: 56

Candidate Starts for Y10_26:

(21, 20676), (23, 20703), (36, 20874), (Start: 56 @20925 has 40 MA's), (Start: 67 @20937 has 23 MA's), (102, 21045), (109, 21078), (146, 21234), (156, 21261), (177, 21330), (187, 21363), (215, 21480), (222, 21504), (234, 21546), (242, 21573), (287, 21756), (313, 21870), (315, 21879), (348, 21984),

Gene: Y2_26 Start: 20925, Stop: 22022, Start Num: 56

Candidate Starts for Y2_26:

(21, 20676), (23, 20703), (36, 20874), (Start: 56 @20925 has 40 MA's), (Start: 67 @20937 has 23 MA's), (102, 21045), (109, 21078), (146, 21234), (156, 21261), (177, 21330), (187, 21363), (215, 21480), (222, 21504), (234, 21546), (242, 21573), (287, 21756), (313, 21870), (315, 21879), (348, 21984),

Gene: Yndexa_44 Start: 31114, Stop: 32229, Start Num: 66

Candidate Starts for Yndexa_44:

(Start: 66 @31114 has 7 MA's), (80, 31156), (88, 31180), (102, 31216), (111, 31264), (120, 31312), (163, 31465), (211, 31672), (213, 31678), (220, 31708), (242, 31783), (259, 31858), (265, 31891), (272, 31924), (277, 31936), (315, 32092), (331, 32146), (335, 32161), (343, 32188),

Gene: YoureAdopted_24 Start: 19450, Stop: 20532, Start Num: 52

Candidate Starts for YoureAdopted_24:

(Start: 52 @19450 has 120 MA's), (96, 19558), (102, 19576), (105, 19594), (155, 19789), (156, 19792), (177, 19861), (199, 19933), (222, 20035), (280, 20269), (295, 20329), (310, 20383), (336, 20476), (348, 20515),

Gene: Yuna_26 Start: 19410, Stop: 20495, Start Num: 52

Candidate Starts for Yuna_26:

(Start: 52 @19410 has 120 MA's), (Start: 60 @19422 has 1 MA's), (80, 19470), (86, 19485), (96, 19521), (102, 19539), (105, 19557), (144, 19722), (155, 19752), (156, 19755), (177, 19824), (186, 19845), (188, 19860), (230, 20025), (263, 20166), (280, 20232), (301, 20307), (309, 20340), (324, 20394), (348, 20478),

Gene: Yunkel11_25 Start: 18700, Stop: 19782, Start Num: 52

Candidate Starts for Yunkel11_25:

(Start: 52 @18700 has 120 MA's), (96, 18808), (102, 18826), (155, 19039), (156, 19042), (177, 19111), (199, 19183), (222, 19285), (280, 19519), (295, 19579), (310, 19633), (336, 19726), (348, 19765),

Gene: Yvonnetastic_52 Start: 35837, Stop: 36913, Start Num: 64

Candidate Starts for Yvonnetastic_52:

(Start: 64 @35837 has 21 MA's), (93, 35927), (106, 35975), (117, 36044), (163, 36185), (176, 36236), (183, 36260), (220, 36407), (244, 36494), (269, 36599), (280, 36635), (301, 36725), (343, 36890),

Gene: Zabiza_26 Start: 19481, Stop: 20563, Start Num: 52

Candidate Starts for Zabiza_26:

(Start: 52 @19481 has 120 MA's), (96, 19589), (102, 19607), (105, 19625), (155, 19820), (156, 19823), (177, 19892), (199, 19964), (222, 20066), (280, 20300), (295, 20360), (310, 20414), (336, 20507), (348, 20546),

Gene: Zarbodnamra_27 Start: 22318, Stop: 23385, Start Num: 58

Candidate Starts for Zarbodnamra_27:

(Start: 58 @22318 has 44 MA's), (72, 22348), (90, 22396), (93, 22411), (105, 22453), (106, 22456), (108, 22462), (125, 22540), (129, 22549), (133, 22558), (146, 22618), (178, 22729), (184, 22750), (186, 22756), (194, 22789), (200, 22804), (230, 22930), (255, 23026), (267, 23086), (269, 23092), (279, 23122), (302, 23203), (348, 23368),

Gene: Zavala_25 Start: 19456, Stop: 20538, Start Num: 52

Candidate Starts for Zavala_25:

(Start: 52 @19456 has 120 MA's), (96, 19564), (102, 19582), (105, 19600), (155, 19795), (156, 19798), (177, 19867), (199, 19939), (214, 20014), (222, 20041), (280, 20275), (295, 20335), (310, 20389), (336, 20482), (348, 20521),

Gene: ZiggyZoo_27 Start: 22235, Stop: 23302, Start Num: 58

Candidate Starts for ZiggyZoo_27:

(Start: 58 @22235 has 44 MA's), (72, 22265), (90, 22313), (93, 22328), (105, 22370), (125, 22457), (129, 22466), (133, 22475), (146, 22535), (159, 22571), (178, 22646), (184, 22667), (186, 22673), (194, 22706), (200, 22721), (230, 22847), (255, 22943), (267, 23003), (269, 23009), (279, 23039), (302, 23120), (348, 23285),

Gene: ZoMa_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for ZoMa_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),

Gene: ZoeJ_21 Start: 17280, Stop: 18359, Start Num: 57

Candidate Starts for ZoeJ_21:

(28, 17139), (Start: 57 @17280 has 17 MA's), (89, 17355), (96, 17382), (102, 17400), (109, 17433), (156, 17616), (177, 17685), (187, 17718), (222, 17859), (230, 17886), (242, 17928), (247, 17961), (280, 18093), (301, 18168), (310, 18207), (315, 18234),

Gene: Zombie_20 Start: 18861, Stop: 19997, Start Num: 33

Candidate Starts for Zombie_20:

(18, 18657), (29, 18816), (Start: 33 @18861 has 64 MA's), (72, 18939), (74, 18942), (75, 18945), (79, 18957), (86, 18975), (95, 19008), (100, 19023), (114, 19104), (146, 19218), (148, 19230), (177, 19317), (183, 19338), (206, 19434), (227, 19512), (260, 19665), (287, 19758), (309, 19848), (324, 19902), (329, 19917), (330, 19920), (333, 19935), (346, 19980), (347, 19983),