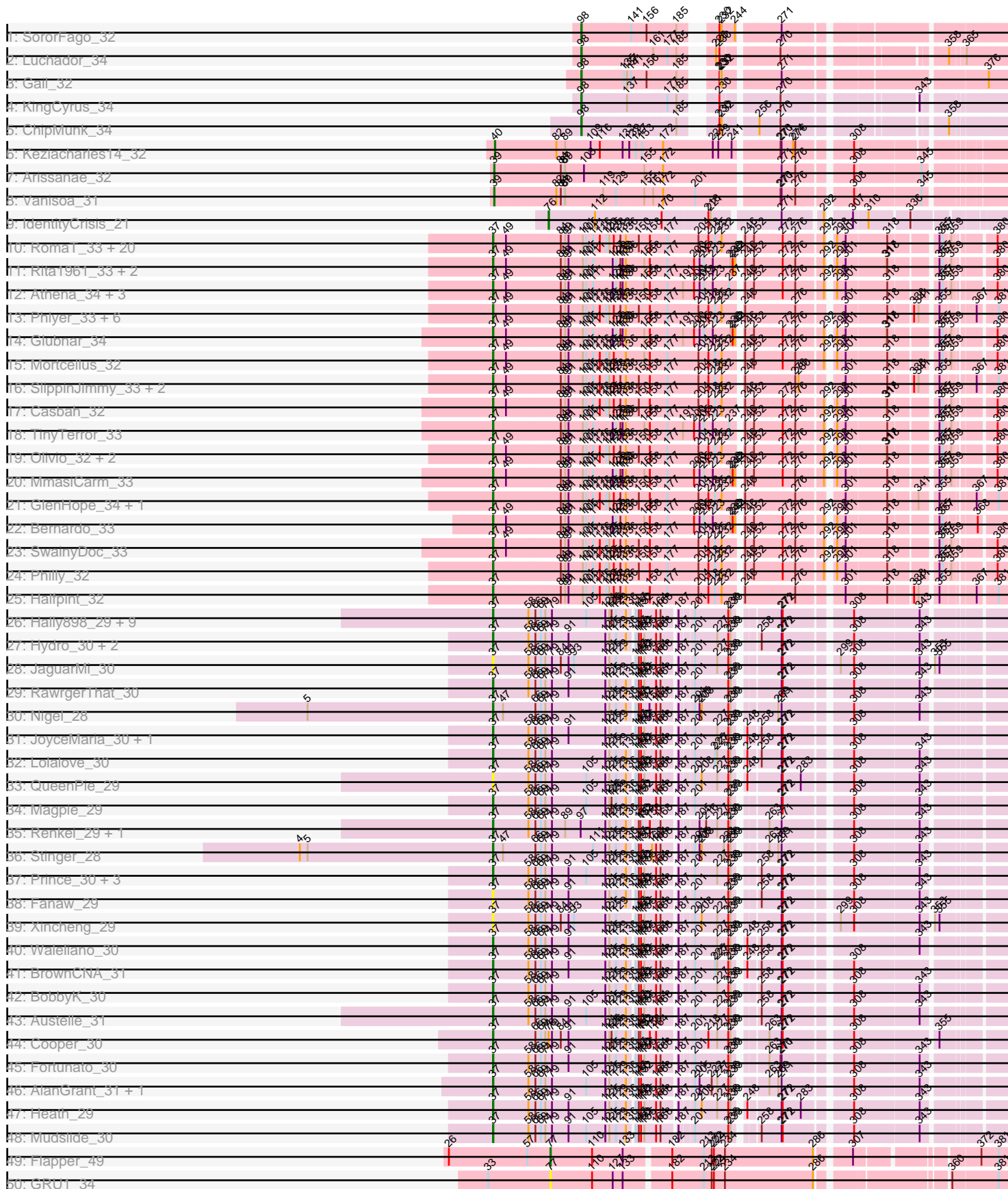
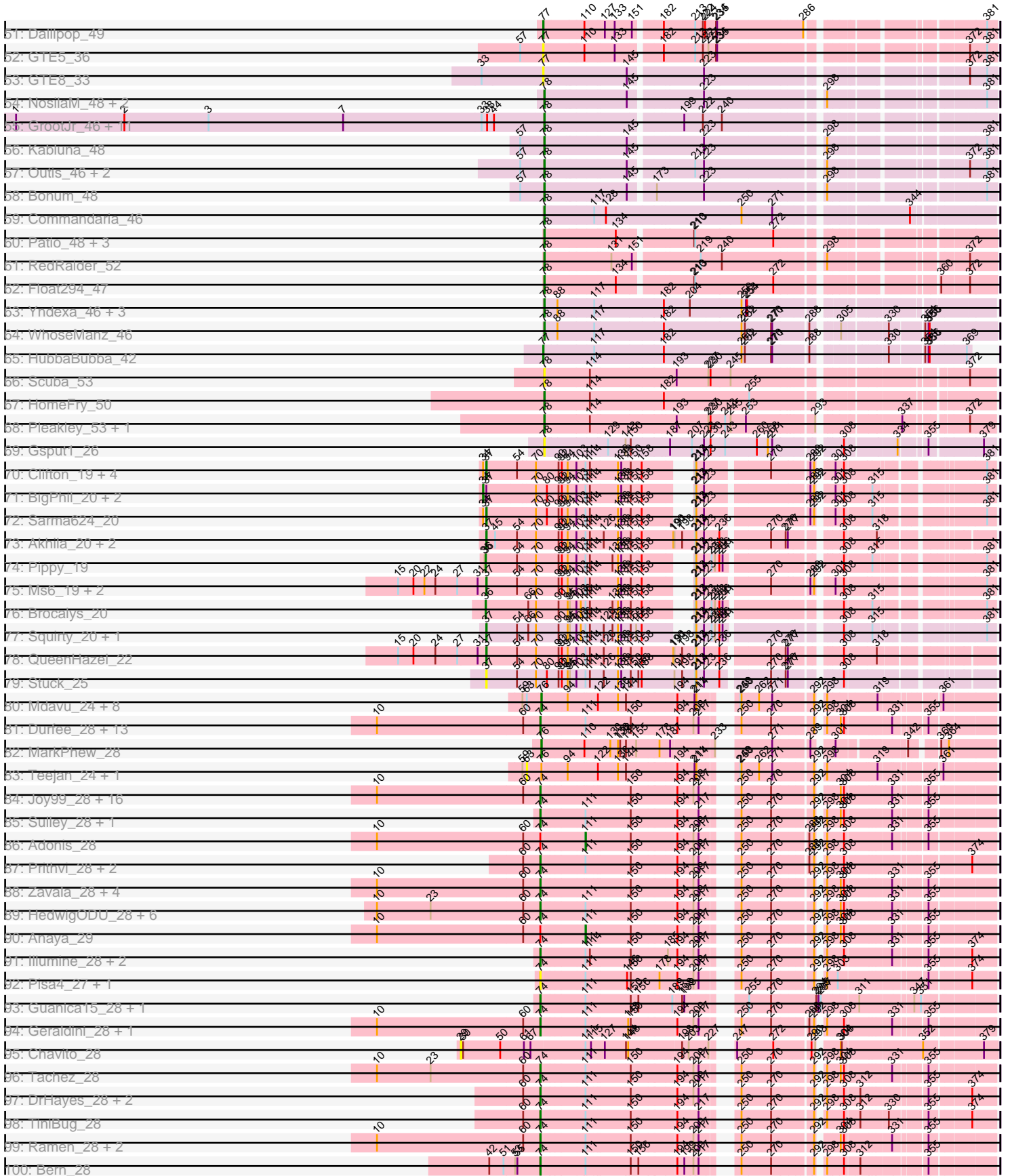


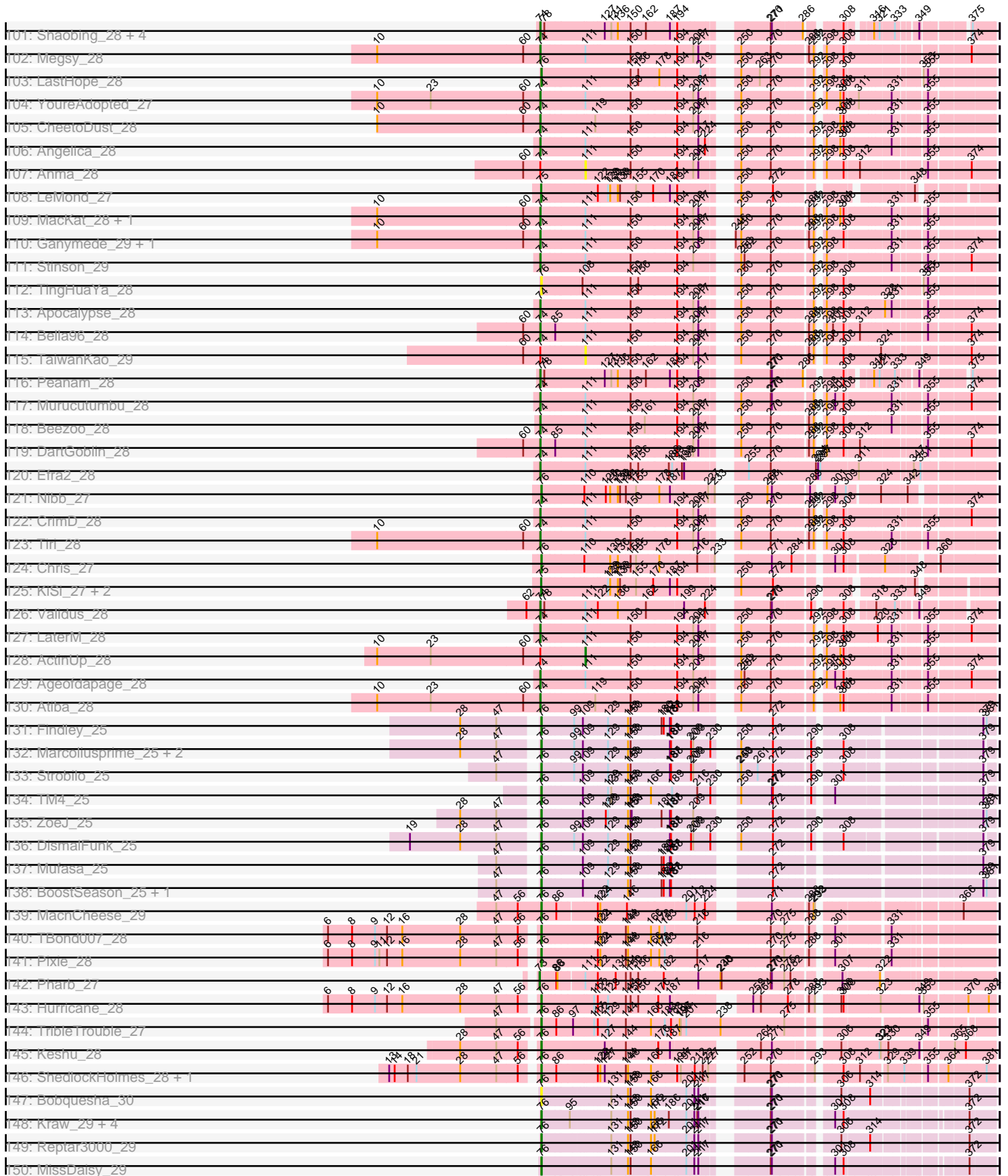
Pham 304613



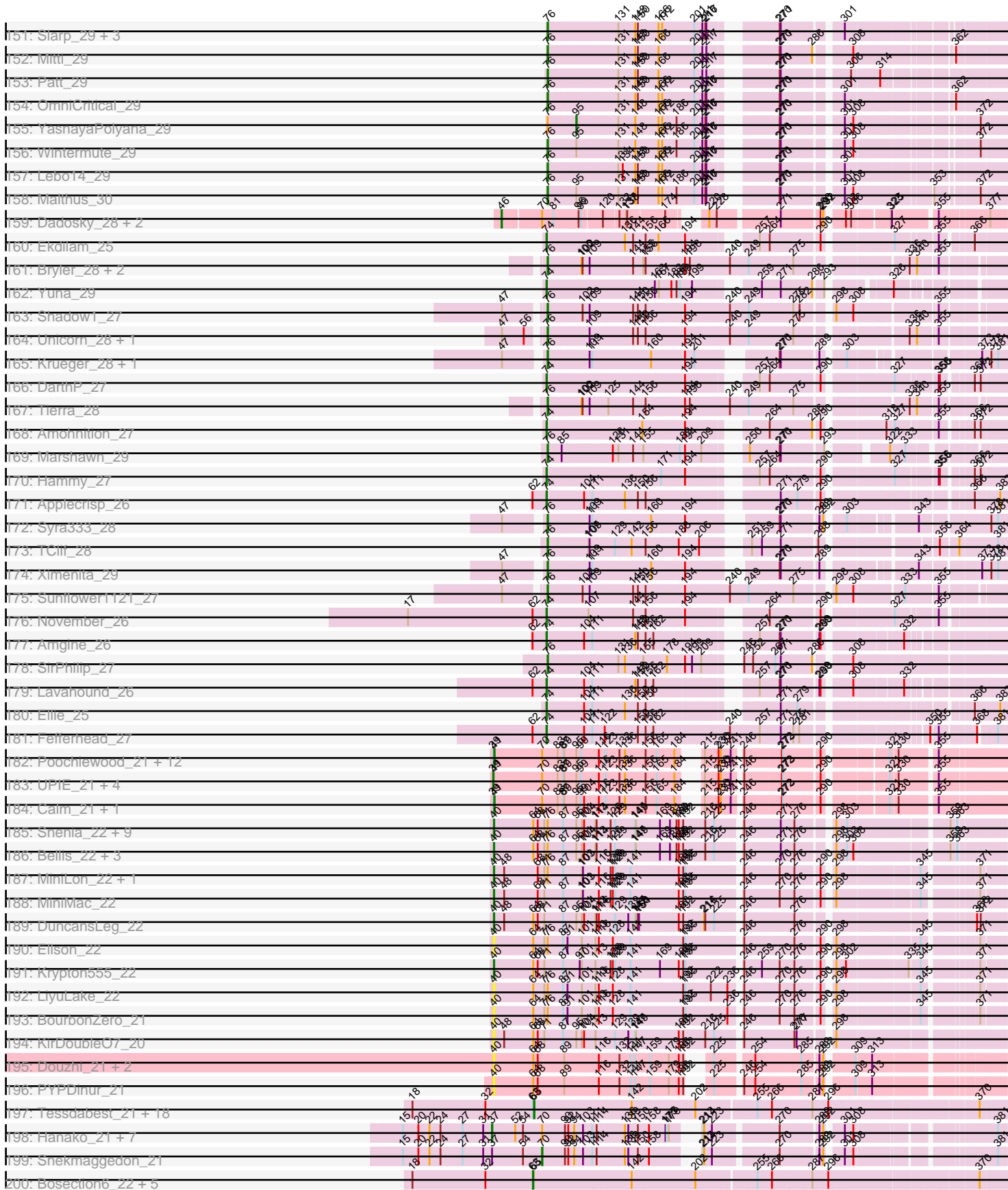
Pham 304613



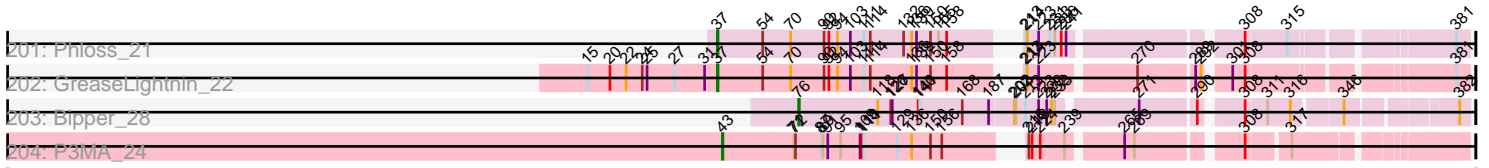
Pham 304613



Pham 304613



Pham 304613



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 304613 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304613 has 437 members, 52 are drafts.

Phages represented in each track:

- Track 1 : SororFago_32
- Track 2 : Luchador_34
- Track 3 : Gail_32
- Track 4 : KingCyrus_34
- Track 5 : ChipMunk_34
- Track 6 : Keziacharles14_32
- Track 7 : Arissanae_32
- Track 8 : Vanisoa_31
- Track 9 : IdentityCrisis_21
- Track 10 : RomaT_33, Nozo_33, ChaChing_33, Morty007_33, Marley1013_33, RagingRooster_33, OrangeOswald_33, Devonte_33, Akoma_33, Chandler_33, LestyG_33, Abinghost_33, Deenasa_33, Heathcliff_33, Shenandoah_33, Chentzyk_32, Audrey_33, SynergyX_33, Neos5_33, Daisy_33, Chalmers_33
- Track 11 : Rita1961_33, Obutu_33, Mulaychimus_33
- Track 12 : Athena_34, Gervas_33, Tydolla_33, Baloo_33
- Track 13 : Phlyer_33, Yahalom_33, Jackstina_30, Gadjet_34, Phaedrus_31, Marlia_33, HarveySr_33
- Track 14 : Glubnar_34
- Track 15 : Mortcellus_32
- Track 16 : SlippinJimmy_33, Kamiyu_33, Yinz_33
- Track 17 : Casbah_32
- Track 18 : TinyTerror_33
- Track 19 : Olivio_32, Ben11_32, Kronus_32
- Track 20 : MmasiCarm_33
- Track 21 : GlenHope_34, Compostia_34
- Track 22 : Bernardo_33
- Track 23 : SwainyDoc_33
- Track 24 : Philly_32
- Track 25 : Halfpint_32
- Track 26 : Hally898_29, Antihero_29, Ahwei_29, Poster_29, JAMaL_30, ChrisnMich_29, Lambano_29, Epah_29, GinPorsche_29, Nanao_29
- Track 27 : Hydro_30, Mithril_30, Zemanar_31
- Track 28 : JaguarMi_30
- Track 29 : RawrgerThat_30
- Track 30 : Nigel_28
- Track 31 : JoyceMaria_30, Hangman_30
- Track 32 : Lolalove_30

- Track 33 : QueenPie_29
- Track 34 : Magpie_29
- Track 35 : Renkei_29, LittleDigger_29
- Track 36 : Stinger_28
- Track 37 : Prince_30, VioletZ_30, Apex_30, Frederick_30
- Track 38 : Fanaw_29
- Track 39 : Xincheng_29
- Track 40 : Waleliano_30
- Track 41 : BrownCNA_31
- Track 42 : BobbyK_30
- Track 43 : Austelle_31
- Track 44 : Cooper_30
- Track 45 : Fortunato_30
- Track 46 : AlanGrant_31, Vincenzo_31
- Track 47 : Heath_29
- Track 48 : Mudslide_30
- Track 49 : Flapper_49
- Track 50 : GRU1_34
- Track 51 : Dalilpop_49
- Track 52 : GTE5_36
- Track 53 : GTE8_33
- Track 54 : NosilaM_48, Buggaboo_46, SuperSulley_46
- Track 55 : GrootJr_46, Emianna_44, Kurt_44, NovumRegina_44, Tracker_44, Arti_44, NatB6_44, KidneyBean_44, Phomeo_43, Foxboro_45, Wheezy_44, Jifall16_43
- Track 56 : Kabluna_48
- Track 57 : Outis_46, MerCougar_46, StarStruck_46
- Track 58 : Bonum_48
- Track 59 : Commandaria_46
- Track 60 : Patio_48, Skysand_47, Ennea_51, Lollipop1437_50
- Track 61 : RedRaider_52
- Track 62 : Float294_47
- Track 63 : Yndexa_46, BiPauneto_47, Sukkupi_46, Pemberton_48
- Track 64 : WhoseManz_46
- Track 65 : HubbaBubba_42
- Track 66 : Scuba_53
- Track 67 : HomeFry_50
- Track 68 : Pleakley_53, Fury_53
- Track 69 : Gspu1_26
- Track 70 : Clifton_19, LastJedi_19, Crumble_19, Jennelsea_19, Koella_19
- Track 71 : BigPhil_20, Cerasum_20, Velveteen_20
- Track 72 : Sarma624_20
- Track 73 : Akhila_20, Xula_21, MilanaBonita_20
- Track 74 : Pippy_19
- Track 75 : Ms6_19, SpongeBob_21, Jamie19_21
- Track 76 : Brocalys_20
- Track 77 : Squirty_20, Fulbright_21
- Track 78 : QueenHazel_22
- Track 79 : Stuck_25
- Track 80 : Mdavu_24, Amelie_24, Nikao_24, LilPharaoh_24, Biglebops_24, Torres_24, SgtBeansprout_24, Enkosi_24, Nutello_24
- Track 81 : Durfee_28, Pokerus_27, Boiiii_28, Padfoot_28, Asayake_28, AlishaPH_28, CaseJules_28, BaghaKamala_28, Piatt_28, BEEST_28,

Hyperbowlee_28, Blizzard_28, Homura_28, ShiaSurprise_28

- Track 82 : MarkPhew_28
- Track 83 : Teejan_24, Trice_24
- Track 84 : Joy99_28, Dalmuri_28, Inky_28, Jeckyll_28, Capricorn_28, BGlluviae_28, CallaLilly_28, CREW_28, Belladonna_28, Peel_28, Twitch_28, Llorens_28, Jarvi_28, Spock_28, Topper_28, Rosmarinus_28, Lunahalos_28
- Track 85 : Sulley_28, Deby_28
- Track 86 : Adonis_28
- Track 87 : Prithvi_28, TreyKay_28, LindNT_28
- Track 88 : Zavala_28, Mynx_28, TruffulaTree_28, Emerson_28, Padpat_28
- Track 89 : HedwigODU_28, Veliki_28, Zabiza_28, Rapunzel97_28, Jayhawk_28, Slimphazie_28, Adephagia_28
- Track 90 : Anaya_29
- Track 91 : Illumine_28, Devera_28, Dole_28
- Track 92 : Pisa4_27, Pisa1_27
- Track 93 : Guanica15_28, Yunkel11_28
- Track 94 : Geraldini_28, MeaningOfLife_28
- Track 95 : Chavito_28
- Track 96 : Tachez_28
- Track 97 : DrHayes_28, Urkel_28, SamuelLPlaqson_28
- Track 98 : TiniBug_28
- Track 99 : Ramen_28, BarrelRoll_28, JAWS_28
- Track 100 : Bern_28
- Track 101 : Shaobing_28, Dartin_28, McMater_28, Richo_28, Niklas_28
- Track 102 : Megsy_28
- Track 103 : LastHope_28
- Track 104 : YoureAdopted_27
- Track 105 : CheetoDust_28
- Track 106 : Angelica_28
- Track 107 : Anma_28
- Track 108 : LeMond_27
- Track 109 : MacKat_28, Clipper_28
- Track 110 : Ganymede_29, QuincyRose_27
- Track 111 : Stinson_29
- Track 112 : TingHuaYa_28
- Track 113 : Apocalypse_28
- Track 114 : Bella96_28
- Track 115 : TaiwanKao_29
- Track 116 : Peanam_28
- Track 117 : Murucutumbu_28
- Track 118 : Beezoo_28
- Track 119 : DartGoblin_28
- Track 120 : Efra2_28
- Track 121 : Nibb_27
- Track 122 : CrimD_28
- Track 123 : Tiri_28
- Track 124 : Chris_27
- Track 125 : KiSi_27, Oscar_27, Scarlett_27
- Track 126 : Validus_28
- Track 127 : LaterM_28
- Track 128 : ActinUp_28
- Track 129 : Ageofdapage_28
- Track 130 : Atiba_28

- Track 131 : Findley_25
- Track 132 : Marcoliusprime_25, Milly_25, DismalStressor_25
- Track 133 : Strobilo_25
- Track 134 : TM4_25
- Track 135 : ZoeJ_25
- Track 136 : DismalFunk_25
- Track 137 : Mufasa_25
- Track 138 : BoostSeason_25, Doughnut_25
- Track 139 : MacnCheese_29
- Track 140 : TBond007_28
- Track 141 : Pixie_28
- Track 142 : Pharb_27
- Track 143 : Hurricane_28
- Track 144 : TribbleTrouble_27
- Track 145 : Keshu_28
- Track 146 : ShedlockHolmes_28, Lea83_28
- Track 147 : Bobquesha_30
- Track 148 : Kraw_29, Y10_29, Fionnbharth_29, JF1_29, Y2_29
- Track 149 : Reptar3000_29
- Track 150 : MissDaisy_29
- Track 151 : Slarp_29, Cheetobro_29, Chancellor_29, Qhanda_30
- Track 152 : Mitti_29
- Track 153 : Patt_29
- Track 154 : OmniCritical_29
- Track 155 : YasnayaPolyana_29
- Track 156 : Wintermute_29
- Track 157 : Lebo14_29
- Track 158 : Malthus_30
- Track 159 : Dadosky_28, Psycho_28, AlleyCat_28
- Track 160 : Ekdilam_25
- Track 161 : Bryler_28, Phrank_28, Cain_28
- Track 162 : Yuna_29
- Track 163 : Shadow1_27
- Track 164 : Unicorn_28, PhelpsODU_28
- Track 165 : Krueger_28, Tigress9_28
- Track 166 : DarthP_27
- Track 167 : Tierra_28
- Track 168 : Amohnition_27
- Track 169 : Marshawn_29
- Track 170 : Hammy_27
- Track 171 : Applecrisp_26
- Track 172 : Syra333_28
- Track 173 : TClif_28
- Track 174 : Ximenita_29
- Track 175 : Sunflower1121_27
- Track 176 : November_26
- Track 177 : Amgine_26
- Track 178 : SirPhilip_27
- Track 179 : Lavahound_26
- Track 180 : Ellie_25
- Track 181 : Fefferhead_27
- Track 182 : Poochiewood_21, Tyson_21, Silverleaf_21, AvadaKedavra_21, Acquire49_21, OhShagHennessy_21, Wamburgxpress_21, Rose5_21, Halena_21,

Wyatt2_21, MAckerman_21, Enceladus_21, DirkDirk_21

- Track 183 : UPIE_21, LeBron_21, Appletree2_21, CicholasNage_21, JoeDirt_21
- Track 184 : Calm_21, Zaria_21
- Track 185 : Snenia_22, Red305_22, Jubie_22, Lumos_22, Clautastrophe_22, Nicholas_22, TriFive_22, MsGreen_22, Kingsolomon_22, Jobypre_22
- Track 186 : Bellis_22, Finnry_22, Samty_22, Moostard_22
- Track 187 : MiniLon_22, Lolly9_22
- Track 188 : MiniMac_22
- Track 189 : DuncansLeg_22
- Track 190 : Ellson_22
- Track 191 : Krypton555_22
- Track 192 : LiyuLake_22
- Track 193 : BourbonZero_21
- Track 194 : KirDoubleO7_20
- Track 195 : Douzhi_21, Sheng711_21, BrainDrainer_22
- Track 196 : PYPDinur_21
- Track 197 : Tessdabest_21, Silvy_22, Magsby_22, Schnauzer_22, Xerxes_22, Duplicity_22, Journey_22, Melville_22, Tapioca_22, Gex_22, MulchSalad_20, EGUnicorn_22, Chewbacca_22, Silvfighter_22, Parmesanjohn_22, Cubone_22, LilSpotty_25, Tortoise12_22, Smurph_22
- Track 198 : Hanako_21, Redi_21, Spinach_21, Nenae_21, PhancyPhin_21, BabeRuth_21, ShrimpFriedEgg_21, Purgamenstris_21
- Track 199 : Snekmaggon_21
- Track 200 : Bosection6_22, Philonius_22, Charlie_22, Carcharodon_22, Aggie_22, Pipsqueaks_22
- Track 201 : Phloss_21
- Track 202 : GreaseLightnin_22
- Track 203 : Bipper_28
- Track 204 : P3MA_24

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

The start number called the most often in the published annotations is 74, it was called in 99 of the 385 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adephagia_28, Ageofdapage_28, AlishaPH_28, Amgine_26, Amohnition_27, Angelica_28, Apocalypse_28, Applecrisp_26, Asayake_28, Atiba_28, BEEST_28, BGlluviae_28, BaghaKamala_28, BarrelRoll_28, Beezoo_28, Bella96_28, Belladonna_28, Bern_28, Blizzard_28, Boiiii_28, CREW_28, CallaLilly_28, Capricorn_28, CaseJules_28, CheetoDust_28, Clipper_28, CrimD_28, Dalmuri_28, DartGoblin_28, DARTH_27, Dartin_28, Deby_28, Devera_28, Dole_28, DrHayes_28, Durfee_28, Efra2_28, Ekdilam_25, Ellie_25, Emerson_28, Fefferhead_27, Ganymede_29, Geraldini_28, Guanica15_28, Hammy_27, HedwigODU_28, Homura_28, Hyperbowlee_28, Illumine_28, Inky_28, JAWS_28, Jarvi_28, Jayhawk_28, Jeckyll_28, Joy99_28, LaterM_28, Lavahound_26, LindNT_28, Llorens_28, Lunahalos_28, MacKat_28, McMater_28, MeaningOfLife_28, Megsy_28, Murucutumbu_28, Mynx_28, Niklas_28, November_26, Padfoot_28, Padpat_28, Peanam_28, Peel_28, Piatt_28, Pisa1_27, Pisa4_27, Pokerus_27, Prithvi_28, QuincyRose_27, Ramen_28, Rapunzel97_28, Richo_28, Rosmarinus_28,

SamuellPlaqson_28, Shaobing_28, ShiaSurprise_28, Slimphazie_28, Spock_28, Stinson_29, Sulley_28, Tachez_28, TiniBug_28, Tiri_28, Topper_28, TreyKay_28, TruffulaTree_28, Twitch_28, Urkel_28, Validus_28, Veliki_28, YoureAdopted_27, Yuna_29, Yunkel11_28, Zabiza_28, Zavala_28,

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

• ActinUp_28, Adonis_28, Anaya_29, Anma_28, TaiwanKao_29,

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

• Abingghost_33, Acquire49_21, Aggie_22, Ahwei_29, Akhila_20, Akoma_33, AlanGrant_31, AlleyCat_28, Amelie_24, Antihero_29, Apex_30, Appletree2_21, Arissanae_32, Arti_44, Athena_34, Audrey_33, Austelle_31, AvadaKedavra_21, BabeRuth_21, Baloo_33, Bellis_22, Ben11_32, Bernardo_33, BiPauneto_47, BigPhil_20, Binglebops_24, Bipper_28, BobbyK_30, Bobquesha_30, Bonum_48, BoostSeason_25, Bosection6_22, BourbonZero_21, BrainDrainer_22, Brocalys_20, BrownCNA_31, Bryler_28, Buggaboo_46, Cain_28, Calm_21, Carcharodon_22, Casbah_32, Cerasum_20, ChaChing_33, Chalmers_33, Chancellor_29, Chandler_33, Charlie_22, Chavito_28, Cheetobro_29, Chentzyk_32, Chewbacca_22, ChipMunk_34, Chris_27, ChrisnMich_29, CicholasNage_21, Clautastrophe_22, Clifton_19, Commandaria_46, Compostia_34, Cooper_30, Crumble_19, Cubone_22, Dadosky_28, Daisy_33, Dalilpop_49, Deenasa_33, Devonte_33, DirkDirk_21, DismalFunk_25, DismalStressor_25, Doughnut_25, Douzhi_21, DuncansLeg_22, Duplicity_22, EGUnicorn_22, Ellson_22, Emianna_44, Enceladus_21, Enkosi_24, Ennea_51, Epah_29, Fanaw_29, Findley_25, Finnry_22, Fionnbharth_29, Flapper_49, Float294_47, Fortunato_30, Foxboro_45, Frederick_30, Fulbright_21, Fury_53, GRU1_34, GTE5_36, GTE8_33, Gadjet_34, Gail_32, Gervas_33, Gex_22, GinPorsche_29, GlenHope_34, Glubnar_34, GreaseLightnin_22, GrootJr_46, Gspu1_26, Halena_21, Halfpint_32, Hally898_29, Hanako_21, Hangman_30, HarveySr_33, Heath_29, Heathcliff_33, HomeFry_50, HubbaBubba_42, Hurricane_28, Hydro_30, IdentityCrisis_21, JAMaL_30, JF1_29, Jackstina_30, JaguarMi_30, Jamie19_21, Jennelsea_19, Jifall16_43, Jobypre_22, JoeDirt_21, Journey_22, JoyceMaria_30, Jubie_22, Kabluna_48, Kamiyu_33, Keshu_28, Keziacharles14_32, KiSi_27, KidneyBean_44, KingCyrus_34, Kingsolomon_22, KirDoubleO7_20, Koella_19, Kraw_29, Kronus_32, Krueger_28, Krypton555_22, Kurt_44, Lambano_29, LastHope_28, LastJedi_19, LeBron_21, LeMond_27, Lea83_28, Lebo14_29, LestyG_33, LilPharaoh_24, LilSpotty_25, LittleDigger_29, LiyuLake_22, Lolalove_30, Lollipop1437_50, Lolly9_22, Luchador_34, Lumos_22, MAckerman_21, MacnCHeese_29, Magpie_29, Magsby_22, Malthus_30, Marcoliusprime_25, MarkPhew_28, Marley1013_33, Marlia_33, Marshawn_29, Mdavu_24, Melville_22, MerCougar_46, MilanaBonita_20, Milly_25, MiniLon_22, MiniMac_22, MissDaisy_29, Mithril_30, Mitti_29, MmasiCarm_33, Moostard_22, Mortcellus_32, Morty007_33, Ms6_19, MsGreen_22, Mudslide_30, Mufasa_25, Mulaychimus_33, MulchSalad_20, Nanao_29, NatB6_44, Nенаe_21, Neos5_33, Nibb_27, Nicholas_22, Nigel_28, Nikao_24, NosilaM_48, NovumRegina_44, Nozo_33, Nutello_24, Obutu_33, OhShagHennessy_21, Olivio_32, OmniCritical_29, OrangeOswald_33, Oscar_27, Outis_46, P3MA_24, PYPDinur_21, Parmesanjohn_22, Patio_48, Patt_29, Pemberton_48, Phaedrux_31, PhancyPhin_21, Pharb_27, PhelpsODU_28, Philly_32, Philonius_22, Phloss_21, Phlyer_33, Phomeo_43, Phrank_28, Pippy_19, Pipsqueaks_22, Pixie_28, Pleakley_53, Poochiewood_21, Poster_29, Prince_30, Psycho_28, Purgamenstris_21, Qhanda_30, QueenHazel_22, QueenPie_29, RagingRooster_33, RawrgerThat_30, Red305_22, RedRaider_52, Redi_21, Renkei_29, Reptar3000_29, Rita1961_33, RomaT_33, Rose5_21, Samty_22, Sarma624_20, Scarlett_27,

Schnauzer_22, Scuba_53, SgtBeansprout_24, Shadow1_27, ShedlockHolmes_28, Shenandoah_33, Sheng711_21, ShrimpFriedEgg_21, Silvafighter_22, Silverleaf_21, Silvy_22, SirPhilip_27, Skysand_47, Slarp_29, SlippinJimmy_33, Smurph_22, Snekmaggon_21, Snenia_22, SororFago_32, Spinach_21, SpongeBob_21, Squirty_20, StarStruck_46, Stinger_28, Strobilo_25, Stuck_25, Sukkupi_46, Sunflower1121_27, SuperSulley_46, SwainyDoc_33, SynergyX_33, Syra333_28, TBond007_28, TClif_28, TM4_25, Tapioca_22, Teejan_24, Tessdabest_21, Tierra_28, Tigress9_28, TingHuaYa_28, TinyTerror_33, Torres_24, Tortoise12_22, Tracker_44, TriFive_22, TribbleTrouble_27, Trice_24, Tydolla_33, Tyson_21, UPIE_21, Unicorn_28, Vanisoa_31, Velveteen_20, Vincenzo_31, VioletZ_30, Waleliano_30, Wamburgxpress_21, Wheezy_44, WhoseManz_46, Wintermute_29, Wyatt2_21, Xerxes_22, Ximenita_29, Xincheng_29, Xula_21, Y10_29, Y2_29, Yahalom_33, YasnayaPolyana_29, Yinz_33, Yndexa_46, Zaria_21, Zemanar_31, ZoeJ_25,

Summary by start number:

Start 29:

- Found in 1 of 437 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chavito_28 (K1),

Start 34:

- Found in 9 of 437 (2.1%) of genes in pham
- Manual Annotations of this start: 3 of 385
- Called 33.3% of time when present
- Phage (with cluster) where this start called: BigPhil_20 (F1), Cerasum_20 (F1), Velveteen_20 (F1),

Start 36:

- Found in 2 of 437 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 385
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brocalys_20 (F1), Pippy_19 (F1),

Start 37:

- Found in 122 of 437 (27.9%) of genes in pham
- Manual Annotations of this start: 98 of 385
- Called 96.7% of time when present
- Phage (with cluster) where this start called: Abinghost_33 (B3), Ahwei_29 (B4), Akhila_20 (F1), Akoma_33 (B3), AlanGrant_31 (B4), Antihero_29 (B4), Apex_30 (B4), Athena_34 (B3), Audrey_33 (B3), Austelle_31 (B4), BabeRuth_21 (N), Baloo_33 (B3), Ben11_32 (B3), Bernardo_33 (B3), BobbyK_30 (B4), BrownCNA_31 (B4), Casbah_32 (B3), ChaChing_33 (B3), Chalmers_33 (B3), Chandler_33 (B3), Chentzyk_32 (B3), ChrisnMich_29 (B4), Clifton_19 (F1), Compostia_34 (B3), Cooper_30 (B4), Crumble_19 (F1), Daisy_33 (B3), Deenasa_33 (B3), Devonte_33 (B3), Epah_29 (B4), Fanaw_29 (B4), Fortunato_30 (B4), Frederick_30 (B4), Fulbright_21 (N), Gadget_34 (B3), Gervas_33 (B3), GinPorsche_29 (B4), GlenHope_34 (B3), Glubnar_34 (B3), GreaseLightnin_22 (P1), Halfpint_32 (B3), Hally898_29 (B4), Hanako_21 (N), Hangman_30 (B4), HarveySr_33 (B3), Heath_29 (B4), Heathcliff_33 (B3), Hydro_30 (B4), JAMaL_30 (B4), Jackstina_30 (B3), JaguarMi_30 (B4), Jamie19_21 (N), Jennelsea_19 (F1), JoyceMaria_30 (B4),

Kamiyu_33 (B3), Koella_19 (F1), Kronus_32 (B3), Lambano_29 (B4), LastJedi_19 (F1), LestyG_33 (B3), LittleDigger_29 (B4), Lolalove_30 (B4), Magpie_29 (B4), Marley1013_33 (B3), Marlia_33 (B3), MilanaBonita_20 (F1), Mithril_30 (B4), MmasiCarm_33 (B3), Mortcellus_32 (B3), Morty007_33 (B3), Ms6_19 (F1), Mudslide_30 (B4), Mulaychimus_33 (B3), Nanao_29 (B4), Nenae_21 (N), Neos5_33 (B3), Nigel_28 (B4), Nozo_33 (B3), Obutu_33 (B3), Olivio_32 (B3), OrangeOswald_33 (B3), Phaedrus_31 (B3), PhancyPhin_21 (N), Philly_32 (B3), Phloss_21 (N), Phlyer_33 (B3), Poster_29 (B4), Prince_30 (B4), Purgamenstris_21 (N), QueenHazel_22 (I1), QueenPie_29 (B4), RagingRooster_33 (B3), RawrgerThat_30 (B4), Redi_21 (N), Renkei_29 (B4), Rita1961_33 (B3), RomaT_33 (B3), Sarma624_20 (F1), Shenandoah_33 (B3), ShrimpFriedEgg_21 (N), SlippinJimmy_33 (B3), Spinach_21 (N), SpongeBob_21 (N), Squirty_20 (F3), Stinger_28 (B4), Stuck_25 (I2), SwainyDoc_33 (B3), SynergyX_33 (B3), TinyTerror_33 (B3), Tydolla_33 (B3), Vincenzo_31 (B4), VioletZ_30 (B4), Waleliano_30 (B4), Xincheng_29 (B4), Xula_21 (I1), Yahalom_33 (B3), Yinz_33 (B3), Zemanar_31 (B4),

Start 39:

- Found in 22 of 437 (5.0%) of genes in pham
- Manual Annotations of this start: 7 of 385
- Called 31.8% of time when present
- Phage (with cluster) where this start called: Appletree2_21 (L1), Arissanae_32 (A9), CicholasNage_21 (L1), JoeDirt_21 (L1), LeBron_21 (L1), UPIE_21 (L1), Vanisoa_31 (A9),

Start 40:

- Found in 28 of 437 (6.4%) of genes in pham
- Manual Annotations of this start: 19 of 385
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bellis_22 (L3), BourbonZero_21 (L3), BrainDrainer_22 (L4), Clautastrophe_22 (L3), Douzhi_21 (L4), DuncansLeg_22 (L3), Ellson_22 (L3), Finny_22 (L3), Jobypre_22 (L3), Jubie_22 (L3), Keziacharles14_32 (A9), Kingsolomon_22 (L3), KirDoubleO7_20 (L3), Krypton555_22 (L3), LiyuLake_22 (L3), Lolly9_22 (L3), Lumos_22 (L3), MiniLon_22 (L3), MiniMac_22 (L3), Moostard_22 (L3), MsGreen_22 (L3), Nicholas_22 (L3), PYPDinur_21 (L4), Red305_22 (L3), Samty_22 (L3), Sheng711_21 (L4), Snenia_22 (L3), TriFive_22 (L3),

Start 41:

- Found in 20 of 437 (4.6%) of genes in pham
- Manual Annotations of this start: 14 of 385
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Acquire49_21 (L1), AvadaKedavra_21 (L1), Calm_21 (L1), DirkDirk_21 (L1), Enceladus_21 (L1), Halena_21 (L1), MAckerman_21 (L1), OhShagHennessy_21 (L1), Poochiewood_21 (L1), Rose5_21 (L1), Silverleaf_21 (L1), Tyson_21 (L1), Wamburgrxpress_21 (L1), Wyatt2_21 (L1), Zaria_21 (L1),

Start 43:

- Found in 1 of 437 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 385
- Called 100.0% of time when present
- Phage (with cluster) where this start called: P3MA_24 (singleton),

Start 46:

- Found in 3 of 437 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 385
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlleyCat_28 (K5), Dadosky_28 (K5), Psycho_28 (K5),

Start 63:

- Found in 36 of 437 (8.2%) of genes in pham
- Manual Annotations of this start: 6 of 385
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Aggie_22 (N), Bosection6_22 (N), Carcharodon_22 (N), Charlie_22 (N), Philonius_22 (N), Pipsqueaks_22 (N), Teejan_24 (K1), Trice_24 (K1),

Start 65:

- Found in 25 of 437 (5.7%) of genes in pham
- Manual Annotations of this start: 16 of 385
- Called 76.0% of time when present
- Phage (with cluster) where this start called: Chewbacca_22 (N), Cubone_22 (N), Duplicity_22 (N), EGUnicorn_22 (N), Gex_22 (N), Journey_22 (N), LilSpotty_25 (singleton), Magsby_22 (N), Melville_22 (N), MulchSalad_20 (F7), Parmesanjohn_22 (N), Schnauzer_22 (N), Silvafighter_22 (N), Silvy_22 (N), Smurph_22 (N), Tapioca_22 (N), Tessdabest_21 (N), Tortoise12_22 (N), Xerxes_22 (N),

Start 70:

- Found in 55 of 437 (12.6%) of genes in pham
- Manual Annotations of this start: 1 of 385
- Called 1.8% of time when present
- Phage (with cluster) where this start called: Snekmaggedon_21 (N),

Start 73:

- Found in 1 of 437 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 385
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pharb_27 (K3),

Start 74:

- Found in 109 of 437 (24.9%) of genes in pham
- Manual Annotations of this start: 99 of 385
- Called 95.4% of time when present
- Phage (with cluster) where this start called: Adephagia_28 (K1), Ageofdapage_28 (K1), AlishaPH_28 (K1), Amgine_26 (K6), Amohndition_27 (K6), Angelica_28 (K1), Apocalypse_28 (K1), Applecrisp_26 (K6), Asayake_28 (K1), Atiba_28 (K1), BEEST_28 (K1), BGlluviae_28 (K1), BaghaKamala_28 (K1), BarrelRoll_28 (K1), Beezoo_28 (K1), Bella96_28 (K1), Belladonna_28 (K1), Bern_28 (K1), Blizzard_28 (K1), Boiiii_28 (K1), CREW_28 (K1), CallaLilly_28 (K1), Capricorn_28 (K1), CaseJules_28 (K1), CheetoDust_28 (K1), Clipper_28 (K1), CrimD_28 (K1), Dalmuri_28 (K1), DartGoblin_28 (K1), DarthP_27 (K6), Dartin_28 (K1), Deby_28 (K1), Devera_28 (K1), Dole_28 (K1), DrHayes_28 (K1), Durfee_28 (K1), Efra2_28 (K1), Ekdilam_25 (K6), Ellie_25 (K6), Emerson_28 (K1), Fefferhead_27 (K6), Ganymede_29 (K1), Geraldini_28 (K1), Guanica15_28 (K1), Hammy_27 (K6),

HedwigODU_28 (K1), Homura_28 (K1), Hyperbowlee_28 (K1), Illumine_28 (K1), Inky_28 (K1), JAWS_28 (K1), Jarvi_28 (K1), Jayhawk_28 (K1), Jeckyll_28 (K1), Joy99_28 (K1), LaterM_28 (K1), Lavahound_26 (K6), LindNT_28 (K1), Llorens_28 (K1), Lunahalos_28 (K1), MacKat_28 (K1), McMater_28 (K1), MeaningOfLife_28 (K1), Megsy_28 (K1), Murucutumbu_28 (K1), Mynx_28 (K1), Niklas_28 (K1), November_26 (K6), Padfoot_28 (K1), Padpat_28 (K1), Peanam_28 (K1), Peel_28 (K1), Piatt_28 (K1), Pisa1_27 (K1), Pisa4_27 (K1), Pokerus_27 (K1), Prithvi_28 (K1), QuincyRose_27 (K1), Ramen_28 (K1), Rapunzel97_28 (K1), Richo_28 (K1), Rosmarinus_28 (K1), SamuelLPlaqson_28 (K1), Shaobing_28 (K1), ShiaSurprise_28 (K1), Slimphazie_28 (K1), Spock_28 (K1), Stinson_29 (K1), Sulley_28 (K1), Tachez_28 (K1), TiniBug_28 (K1), Tiri_28 (K1), Topper_28 (K1), TreyKay_28 (K1), TruffulaTree_28 (K1), Twitch_28 (K1), Urkel_28 (K1), Validus_28 (K1), Veliki_28 (K1), YoureAdopted_27 (K1), Yuna_29 (K6), Yunkel11_28 (K1), Zabiza_28 (K1), Zavala_28 (K1),

Start 75:

- Found in 4 of 437 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 385
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KiSi_27 (K1), LeMond_27 (K1), Oscar_27 (K1), Scarlett_27 (K1),

Start 76:

- Found in 91 of 437 (20.8%) of genes in pham
- Manual Annotations of this start: 65 of 385
- Called 74.7% of time when present
- Phage (with cluster) where this start called: Amelie_24 (K1), Binglebops_24 (K1), Bipper_28 (Y), Bobquesha_30 (K4), BoostSeason_25 (K2), Bryler_28 (K6), Cain_28 (K6), Chancellor_29 (K4), Cheetobro_29 (K4), Chris_27 (K1), DismalFunk_25 (K2), DismalStressor_25 (K2), Doughnut_25 (K2), Enkosi_24 (K1), Findley_25 (K2), Fionnbharth_29 (K4), Hurricane_28 (K3), IdentityCrisis_21 (AJ), JF1_29 (K4), Keshu_28 (K3), Kraw_29 (K4), Krueger_28 (K6), LastHope_28 (K1), Lea83_28 (K3), Lebo14_29 (K4), LilPharaoh_24 (K1), MacnCheese_29 (K3), Malthus_30 (K4), Marcoliusprime_25 (K2), MarkPhew_28 (K1), Marshawn_29 (K6), Mdavu_24 (K1), Milly_25 (K2), MissDaisy_29 (K4), Mitti_29 (K4), Mufasa_25 (K2), Nibb_27 (K1), Nikao_24 (K1), Nutello_24 (K1), OmniCritical_29 (K4), Patt_29 (K4), PhelpsODU_28 (K6), Phrank_28 (K6), Pixie_28 (K3), Qhanda_30 (K4), Reptar3000_29 (K4), SgtBeansprout_24 (K1), Shadow1_27 (K6), ShedlockHolmes_28 (K3), SirPhilip_27 (K6), Slarp_29 (K4), Strobilo_25 (K2), Sunflower1121_27 (K6), Syra333_28 (K6), TBond007_28 (K3), TClif_28 (K6), TM4_25 (K2), Tierra_28 (K6), Tigress9_28 (K6), TingHuaYa_28 (K1), Torres_24 (K1), TribbleTrouble_27 (K3), Unicorn_28 (K6), Wintermute_29 (K4), Ximenita_29 (K6), Y10_29 (K4), Y2_29 (K4), ZoeJ_25 (K2),

Start 77:

- Found in 6 of 437 (1.4%) of genes in pham
- Manual Annotations of this start: 3 of 385
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dalilpop_49 (CR1), Flapper_49 (CR1), GRU1_34 (CR1), GTE5_36 (CR1), GTE8_33 (CR2), HubbaBubba_42 (CR4),

Start 78:

- Found in 44 of 437 (10.1%) of genes in pham
- Manual Annotations of this start: 34 of 385

- Called 84.1% of time when present
- Phage (with cluster) where this start called: Arti_44 (CR2), BiPauneto_47 (CR4), Bonum_48 (CR2), Buggaboo_46 (CR2), Commandaria_46 (CR2), Emianna_44 (CR2), Ennea_51 (CR3), Float294_47 (CR3), Foxboro_45 (CR2), Fury_53 (CR5), GrootJr_46 (CR2), Gspu1_26 (CU2), HomeFry_50 (CR5), Jifall16_43 (CR2), Kabluna_48 (CR2), KidneyBean_44 (CR2), Kurt_44 (CR2), Lollipop1437_50 (CR3), MerCougar_46 (CR2), NatB6_44 (CR2), NosilaM_48 (CR2), NovumRegina_44 (CR2), Outis_46 (CR2), Patio_48 (CR3), Pemberton_48 (CR4), Phomeo_43 (CR2), Pleakley_53 (CR5), RedRaider_52 (CR3), Scuba_53 (CR5), Skysand_47 (CR3), StarStruck_46 (CR2), Sukkupi_46 (CR4), SuperSulley_46 (CR2), Tracker_44 (CR2), Wheezy_44 (CR2), WhoseManz_46 (CR4), Yndexa_46 (CR4),

Start 95:

- Found in 49 of 437 (11.2%) of genes in pham
- Manual Annotations of this start: 1 of 385
- Called 2.0% of time when present
- Phage (with cluster) where this start called: YasnayaPolyana_29 (K4),

Start 98:

- Found in 5 of 437 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 385
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChipMunk_34 (A2), Gail_32 (A14), KingCyrus_34 (A2), Luchador_34 (A14), SororFago_32 (A14),

Start 111:

- Found in 165 of 437 (37.8%) of genes in pham
- Manual Annotations of this start: 3 of 385
- Called 3.0% of time when present
- Phage (with cluster) where this start called: ActinUp_28 (K1), Adonis_28 (K1), Anaya_29 (K1), Anma_28 (K1), TaiwanKao_29 (K1),

Summary by clusters:

There are 30 clusters represented in this pham: singleton, K3, K2, K1, K6, K5, K4, A14, CU2, I1, I2, A2, A9, P1, CR3, AJ, N, L4, F3, L3, L1, Y, CR2, F1, CR1, CR4, CR5, F7, B4, B3,

Info for manual annotations of cluster A14:

- Start number 98 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 98 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A9:

- Start number 39 was manually annotated 2 times for cluster A9.
- Start number 40 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AJ:

- Start number 76 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster B3:

- Start number 37 was manually annotated 47 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 37 was manually annotated 28 times for cluster B4.

Info for manual annotations of cluster CR1:

- Start number 77 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 78 was manually annotated 21 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 78 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 77 was manually annotated 1 time for cluster CR4.
- Start number 78 was manually annotated 4 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 78 was manually annotated 3 times for cluster CR5.

Info for manual annotations of cluster F1:

- Start number 34 was manually annotated 3 times for cluster F1.
- Start number 36 was manually annotated 2 times for cluster F1.
- Start number 37 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster F3:

- Start number 37 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster I1:

- Start number 37 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster K1:

- Start number 74 was manually annotated 88 times for cluster K1.
- Start number 75 was manually annotated 4 times for cluster K1.
- Start number 76 was manually annotated 13 times for cluster K1.
- Start number 111 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 76 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 73 was manually annotated 1 time for cluster K3.
- Start number 76 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 76 was manually annotated 16 times for cluster K4.
- Start number 95 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K5:

- Start number 46 was manually annotated 3 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 74 was manually annotated 11 times for cluster K6.
- Start number 76 was manually annotated 15 times for cluster K6.

Info for manual annotations of cluster L1:

- Start number 39 was manually annotated 5 times for cluster L1.
- Start number 41 was manually annotated 14 times for cluster L1.

Info for manual annotations of cluster L3:

- Start number 40 was manually annotated 18 times for cluster L3.

Info for manual annotations of cluster N:

- Start number 37 was manually annotated 12 times for cluster N.
- Start number 63 was manually annotated 6 times for cluster N.
- Start number 65 was manually annotated 15 times for cluster N.
- Start number 70 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P1:

- Start number 37 was manually annotated 1 time for cluster P1.

Info for manual annotations of cluster Y:

- Start number 76 was manually annotated 1 time for cluster Y.

Gene Information:

Gene: Abinghost_33 Start: 32219, Stop: 33421, Start Num: 37

Candidate Starts for Abinghost_33:

(Start: 37 @32219 has 98 MA's), (49, 32252), (84, 32396), (89, 32405), (91, 32414), (101, 32453), (105, 32462), (Start: 111 @32480 has 3 MA's), (116, 32498), (123, 32516), (125, 32522), (128, 32534), (132, 32552), (136, 32567), (150, 32600), (158, 32627), (177, 32672), (204, 32753), (218, 32780), (225, 32798), (232, 32816), (246, 32858), (252, 32882), (272, 32957), (276, 32987), (292, 33047), (298, 33059), (301, 33077), (318, 33179), (355, 33284), (357, 33290), (359, 33308), (380, 33395),

Gene: Acquire49_21 Start: 21688, Stop: 22860, Start Num: 41

Candidate Starts for Acquire49_21:

(Start: 39 @21685 has 7 MA's), (Start: 41 @21688 has 14 MA's), (Start: 70 @21814 has 1 MA's), (83, 21856), (87, 21868), (89, 21871), (Start: 95 @21904 has 1 MA's), (99, 21916), (116, 21964), (123, 21982), (132, 22018), (136, 22033), (156, 22084), (165, 22114), (184, 22156), (215, 22180), (230, 22216), (232, 22222), (241, 22249), (246, 22267), (272, 22360), (273, 22363), (290, 22447), (321, 22585), (330, 22603), (355, 22687),

Gene: ActinUp_28 Start: 23436, Stop: 24338, Start Num: 111

Candidate Starts for ActinUp_28:

(10, 22881), (23, 23028), (60, 23280), (Start: 74 @23325 has 99 MA's), (Start: 111 @23436 has 3 MA's), (150, 23550), (194, 23667), (209, 23709), (217, 23721), (250, 23775), (270, 23853), (292, 23949), (298, 23961), (304, 23991), (308, 24000), (331, 24114), (355, 24183),

Gene: Adephagia_28 Start: 23322, Stop: 24335, Start Num: 74

Candidate Starts for Adephagia_28:

(10, 22878), (23, 23025), (60, 23277), (Start: 74 @23322 has 99 MA's), (Start: 111 @23433 has 3 MA's), (150, 23547), (194, 23664), (209, 23706), (217, 23718), (250, 23772), (270, 23850), (292, 23946), (298, 23958), (304, 23988), (308, 23997), (331, 24111), (355, 24180),

Gene: Adonis_28 Start: 23439, Stop: 24341, Start Num: 111

Candidate Starts for Adonis_28:

(10, 22884), (60, 23283), (Start: 74 @23328 has 99 MA's), (Start: 111 @23439 has 3 MA's), (150, 23553), (194, 23670), (209, 23712), (217, 23724), (250, 23778), (270, 23856), (288, 23940), (292, 23952), (298, 23964), (308, 24003), (331, 24117), (355, 24186),

Gene: Ageofdapage_28 Start: 23272, Stop: 24285, Start Num: 74

Candidate Starts for Ageofdapage_28:

(Start: 74 @23272 has 99 MA's), (Start: 111 @23383 has 3 MA's), (150, 23497), (194, 23614), (209, 23656), (250, 23722), (252, 23731), (270, 23800), (292, 23896), (298, 23908), (301, 23926), (308, 23947), (331, 24061), (355, 24130), (374, 24226),

Gene: Aggie_22 Start: 20221, Stop: 21438, Start Num: 63

Candidate Starts for Aggie_22:

(18, 19894), (32, 20092), (Start: 63 @20221 has 6 MA's), (Start: 65 @20224 has 16 MA's), (142, 20485), (202, 20656), (255, 20806), (266, 20845), (287, 20947), (296, 20989), (370, 21361),

Gene: Ahwei_29 Start: 31578, Stop: 32735, Start Num: 37

Candidate Starts for Ahwei_29:

(Start: 37 @31578 has 98 MA's), (58, 31671), (66, 31686), (69, 31701), (71, 31713), (79, 31731), (105, 31821), (121, 31872), (125, 31881), (126, 31887), (129, 31899), (136, 31926), (147, 31941), (150, 31947), (152, 31953), (164, 31986), (168, 31995), (187, 32028), (201, 32061), (236, 32151), (239, 32157), (271, 32256), (272, 32259), (308, 32403), (343, 32556),

Gene: Akhila_20 Start: 20281, Stop: 21492, Start Num: 37

Candidate Starts for Akhila_20:

(Start: 37 @20281 has 98 MA's), (45, 20305), (54, 20362), (Start: 70 @20410 has 1 MA's), (90, 20470), (92, 20479), (94, 20494), (103, 20518), (Start: 111 @20542 has 3 MA's), (114, 20554), (126, 20590), (136, 20629), (139, 20638), (150, 20662), (158, 20692), (190, 20776), (191, 20779), (198, 20800), (213, 20836), (214, 20839), (223, 20860), (236, 20902), (270, 21019), (276, 21055), (277, 21061), (308, 21166), (318, 21247),

Gene: Akoma_33 Start: 32223, Stop: 33425, Start Num: 37

Candidate Starts for Akoma_33:

(Start: 37 @32223 has 98 MA's), (49, 32256), (84, 32400), (89, 32409), (91, 32418), (101, 32457), (105, 32466), (Start: 111 @32484 has 3 MA's), (116, 32502), (123, 32520), (125, 32526), (128, 32538), (132, 32556), (136, 32571), (150, 32604), (158, 32631), (177, 32676), (204, 32757), (218, 32784), (225, 32802), (232, 32820), (246, 32862), (252, 32886), (272, 32961), (276, 32991), (292, 33051), (298, 33063), (301, 33081), (318, 33183), (355, 33288), (357, 33294), (359, 33312), (380, 33399),

Gene: AlanGrant_31 Start: 33326, Stop: 34483, Start Num: 37

Candidate Starts for AlanGrant_31:

(Start: 37 @33326 has 98 MA's), (58, 33419), (66, 33434), (69, 33449), (71, 33461), (79, 33479), (105, 33569), (121, 33620), (125, 33629), (129, 33647), (136, 33674), (147, 33689), (150, 33695), (152, 33701), (164, 33734), (168, 33743), (187, 33776), (201, 33809), (205, 33821), (222, 33854), (227, 33869), (236, 33899), (239, 33905), (263, 33971), (269, 33995), (271, 34004), (308, 34151), (343, 34304),

Gene: AlishaPH_28 Start: 23315, Stop: 24328, Start Num: 74

Candidate Starts for AlishaPH_28:

(10, 22871), (60, 23270), (Start: 74 @23315 has 99 MA's), (Start: 111 @23426 has 3 MA's), (150, 23540), (194, 23657), (209, 23699), (217, 23711), (250, 23765), (270, 23843), (292, 23939), (298, 23951), (304, 23981), (308, 23990), (331, 24104), (355, 24173),

Gene: AlleyCat_28 Start: 24010, Stop: 25074, Start Num: 46

Candidate Starts for AlleyCat_28:

(Start: 46 @24010 has 3 MA's), (Start: 70 @24100 has 1 MA's), (81, 24130), (96, 24184), (99, 24190), (120, 24238), (132, 24277), (137, 24295), (138, 24298), (174, 24379), (220, 24427), (228, 24445), (271, 24586), (290, 24676), (291, 24679), (292, 24682), (302, 24715), (306, 24727), (323, 24814), (325, 24817), (355, 24913), (377, 25030),

Gene: Amelie_24 Start: 22900, Stop: 23907, Start Num: 76

Candidate Starts for Amelie_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: Amgine_26 Start: 23356, Stop: 24351, Start Num: 74

Candidate Starts for Amgine_26:

(62, 23320), (Start: 74 @23356 has 99 MA's), (104, 23446), (Start: 111 @23467 has 3 MA's), (148, 23575), (150, 23581), (156, 23602), (162, 23623), (257, 23830), (270, 23884), (271, 23887), (289, 23971), (290, 23974), (332, 24139),

Gene: Amohndition_27 Start: 23778, Stop: 24782, Start Num: 74

Candidate Starts for Amohndition_27:

(Start: 74 @23778 has 99 MA's), (154, 24015), (194, 24120), (264, 24279), (286, 24381), (290, 24393), (318, 24528), (327, 24546), (355, 24639), (366, 24705), (372, 24717),

Gene: Anaya_29 Start: 23452, Stop: 24354, Start Num: 111

Candidate Starts for Anaya_29:

(10, 22897), (60, 23296), (Start: 74 @23341 has 99 MA's), (Start: 111 @23452 has 3 MA's), (150, 23566), (194, 23683), (209, 23725), (217, 23737), (250, 23791), (270, 23869), (292, 23965), (298, 23977), (304, 24007), (308, 24016), (331, 24130), (355, 24199),

Gene: Angelica_28 Start: 23290, Stop: 24303, Start Num: 74

Candidate Starts for Angelica_28:

(Start: 74 @23290 has 99 MA's), (Start: 111 @23401 has 3 MA's), (150, 23515), (194, 23632), (217, 23686), (224, 23704), (250, 23740), (270, 23818), (292, 23914), (298, 23926), (304, 23956), (308, 23965), (331, 24079), (355, 24148),

Gene: Anma_28 Start: 23395, Stop: 24297, Start Num: 111

Candidate Starts for Anma_28:

(60, 23239), (Start: 74 @23284 has 99 MA's), (Start: 111 @23395 has 3 MA's), (150, 23509), (194, 23626), (209, 23668), (217, 23680), (250, 23734), (270, 23812), (292, 23908), (298, 23920), (308, 23959), (312, 23995), (355, 24142), (374, 24238),

Gene: Antihero_29 Start: 31578, Stop: 32735, Start Num: 37

Candidate Starts for Antihero_29:

(Start: 37 @31578 has 98 MA's), (58, 31671), (66, 31686), (69, 31701), (71, 31713), (79, 31731), (105, 31821), (121, 31872), (125, 31881), (126, 31887), (129, 31899), (136, 31926), (147, 31941), (150, 31947), (152, 31953), (164, 31986), (168, 31995), (187, 32028), (201, 32061), (236, 32151), (239, 32157), (271, 32256), (272, 32259), (308, 32403), (343, 32556),

Gene: Apex_30 Start: 32785, Stop: 33942, Start Num: 37

Candidate Starts for Apex_30:

(Start: 37 @32785 has 98 MA's), (58, 32878), (66, 32893), (69, 32908), (71, 32920), (79, 32938), (91, 32980), (105, 33028), (121, 33079), (125, 33088), (129, 33106), (136, 33133), (147, 33148), (150, 33154), (152, 33160), (155, 33166), (164, 33193), (168, 33202), (187, 33235), (201, 33268), (227, 33328), (236, 33358), (239, 33364), (258, 33409), (271, 33463), (272, 33466), (308, 33610), (343, 33763),

Gene: Apocalypse_28 Start: 23293, Stop: 24306, Start Num: 74

Candidate Starts for Apocalypse_28:

(Start: 74 @23293 has 99 MA's), (Start: 111 @23404 has 3 MA's), (150, 23518), (194, 23635), (209, 23677), (217, 23689), (250, 23743), (270, 23821), (292, 23917), (298, 23929), (308, 23968), (328, 24064), (331, 24082), (355, 24151),

Gene: Applecrisp_26 Start: 23767, Stop: 24774, Start Num: 74

Candidate Starts for Applecrisp_26:

(62, 23731), (Start: 74 @23767 has 99 MA's), (104, 23857), (Start: 111 @23878 has 3 MA's), (136, 23959), (150, 23992), (156, 24013), (271, 24298), (279, 24337), (290, 24382), (366, 24697), (382, 24757),

Gene: Appletree2_21 Start: 21628, Stop: 22803, Start Num: 39

Candidate Starts for Appletree2_21:

(Start: 39 @21628 has 7 MA's), (Start: 41 @21631 has 14 MA's), (Start: 70 @21757 has 1 MA's), (83, 21799), (87, 21811), (89, 21814), (Start: 95 @21847 has 1 MA's), (99, 21859), (116, 21907), (123, 21925), (132, 21961), (136, 21976), (156, 22027), (165, 22057), (184, 22099), (215, 22123), (230, 22159), (232, 22165), (241, 22192), (246, 22210), (272, 22303), (273, 22306), (290, 22390), (321, 22528), (330, 22546), (355, 22630),

Gene: Arissanae_32 Start: 24817, Stop: 26022, Start Num: 39

Candidate Starts for Arissanae_32:

(Start: 39 @24817 has 7 MA's), (84, 24994), (87, 25000), (89, 25003), (103, 25054), (155, 25210), (172, 25258), (271, 25552), (276, 25585), (308, 25696), (345, 25852),

Gene: Arti_44 Start: 34961, Stop: 36019, Start Num: 78

Candidate Starts for Arti_44:

(1, 33521), (2, 33818), (3, 34049), (7, 34418), (33, 34796), (38, 34811), (44, 34829), (Start: 78 @34961 has 34 MA's), (199, 35306), (222, 35357), (240, 35405),

Gene: Asayake_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Asayake_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Athena_34 Start: 32970, Stop: 34172, Start Num: 37

Candidate Starts for Athena_34:

(Start: 37 @32970 has 98 MA's), (49, 33003), (84, 33147), (89, 33156), (91, 33165), (101, 33204), (105, 33213), (Start: 111 @33231 has 3 MA's), (127, 33282), (129, 33291), (132, 33303), (133, 33309), (136, 33318), (155, 33363), (158, 33378), (177, 33423), (191, 33462), (200, 33492), (205, 33507), (213, 33519), (223, 33543), (237, 33588), (246, 33609), (252, 33633), (272, 33708), (276, 33738), (292, 33798), (298, 33810), (301, 33828), (318, 33930), (355, 34035), (357, 34041), (359, 34059), (380, 34146),

Gene: Atiba_28 Start: 23285, Stop: 24298, Start Num: 74

Candidate Starts for Atiba_28:

(10, 22841), (23, 22988), (60, 23240), (Start: 74 @23285 has 99 MA's), (119, 23417), (150, 23510), (194, 23627), (209, 23669), (217, 23681), (250, 23735), (270, 23813), (292, 23909), (304, 23951), (308, 23960), (331, 24074), (355, 24143),

Gene: Audrey_33 Start: 32219, Stop: 33421, Start Num: 37

Candidate Starts for Audrey_33:

(Start: 37 @32219 has 98 MA's), (49, 32252), (84, 32396), (89, 32405), (91, 32414), (101, 32453), (105, 32462), (Start: 111 @32480 has 3 MA's), (116, 32498), (123, 32516), (125, 32522), (128, 32534), (132, 32552), (136, 32567), (150, 32600), (158, 32627), (177, 32672), (204, 32753), (218, 32780), (225, 32798), (232, 32816), (246, 32858), (252, 32882), (272, 32957), (276, 32987), (292, 33047), (298, 33059), (301, 33077), (318, 33179), (355, 33284), (357, 33290), (359, 33308), (380, 33395),

Gene: Austelle_31 Start: 33241, Stop: 34398, Start Num: 37

Candidate Starts for Austelle_31:

(Start: 37 @33241 has 98 MA's), (58, 33334), (66, 33349), (69, 33364), (71, 33376), (79, 33394), (91, 33436), (105, 33484), (121, 33535), (125, 33544), (129, 33562), (136, 33589), (147, 33604), (150, 33610), (152, 33616), (155, 33622), (164, 33649), (168, 33658), (187, 33691), (201, 33724), (227, 33784), (236, 33814), (239, 33820), (258, 33865), (271, 33919), (272, 33922), (308, 34066), (343, 34219),

Gene: AvadaKedavra_21 Start: 21698, Stop: 22870, Start Num: 41

Candidate Starts for AvadaKedavra_21:

(Start: 39 @21695 has 7 MA's), (Start: 41 @21698 has 14 MA's), (Start: 70 @21824 has 1 MA's), (83, 21866), (87, 21878), (89, 21881), (Start: 95 @21914 has 1 MA's), (99, 21926), (116, 21974), (123, 21992), (132, 22028), (136, 22043), (156, 22094), (165, 22124), (184, 22166), (215, 22190), (230, 22226), (232, 22232), (241, 22259), (246, 22277), (272, 22370), (273, 22373), (290, 22457), (321, 22595), (330, 22613), (355, 22697),

Gene: BEEST_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for BEEST_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: BGlluviae_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for BGlluviae_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: BabeRuth_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for BabeRuth_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (52, 19940), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (175, 20333), (177, 20336), (179, 20342), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: BaghaKamala_28 Start: 23285, Stop: 24298, Start Num: 74

Candidate Starts for BaghaKamala_28:

(10, 22841), (60, 23240), (Start: 74 @23285 has 99 MA's), (Start: 111 @23396 has 3 MA's), (150, 23510), (194, 23627), (209, 23669), (217, 23681), (250, 23735), (270, 23813), (292, 23909), (298, 23921), (304, 23951), (308, 23960), (331, 24074), (355, 24143),

Gene: Baloo_33 Start: 32222, Stop: 33424, Start Num: 37

Candidate Starts for Baloo_33:

(Start: 37 @32222 has 98 MA's), (49, 32255), (84, 32399), (89, 32408), (91, 32417), (101, 32456), (105, 32465), (Start: 111 @32483 has 3 MA's), (127, 32534), (129, 32543), (132, 32555), (133, 32561), (136, 32570), (155, 32615), (158, 32630), (177, 32675), (191, 32714), (200, 32744), (205, 32759), (213, 32771), (223, 32795), (237, 32840), (246, 32861), (252, 32885), (272, 32960), (276, 32990), (292, 33050), (298, 33062), (301, 33080), (318, 33182), (355, 33287), (357, 33293), (359, 33311), (380, 33398),

Gene: BarrelRoll_28 Start: 23308, Stop: 24321, Start Num: 74

Candidate Starts for BarrelRoll_28:

(10, 22864), (60, 23263), (Start: 74 @23308 has 99 MA's), (Start: 111 @23419 has 3 MA's), (150, 23533), (194, 23650), (209, 23692), (217, 23704), (250, 23758), (270, 23836), (292, 23932), (304, 23974), (308, 23983), (331, 24097), (355, 24166),

Gene: Beezoo_28 Start: 23333, Stop: 24346, Start Num: 74

Candidate Starts for Beezoo_28:

(Start: 74 @23333 has 99 MA's), (Start: 111 @23444 has 3 MA's), (150, 23558), (161, 23597), (194, 23675), (209, 23717), (217, 23729), (250, 23783), (270, 23861), (288, 23945), (292, 23957), (298, 23969), (308, 24008), (331, 24122), (355, 24191),

Gene: Bella96_28 Start: 23266, Stop: 24279, Start Num: 74

Candidate Starts for Bella96_28:

(60, 23221), (Start: 74 @23266 has 99 MA's), (85, 23299), (Start: 111 @23377 has 3 MA's), (150, 23491), (194, 23608), (209, 23650), (217, 23662), (250, 23716), (270, 23794), (288, 23878), (292, 23890), (298, 23902), (300, 23914), (308, 23941), (312, 23977), (355, 24124), (374, 24220),

Gene: Belladonna_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Belladonna_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Bellis_22 Start: 22249, Stop: 23466, Start Num: 40

Candidate Starts for Bellis_22:

(Start: 40 @22249 has 19 MA's), (64, 22351), (68, 22363), (71, 22381), (Start: 76 @22390 has 65 MA's), (87, 22429), (Start: 95 @22465 has 1 MA's), (101, 22480), (104, 22486), (113, 22516), (114, 22519), (126, 22555), (129, 22567), (147, 22618), (149, 22621), (169, 22681), (181, 22708), (186, 22723), (188, 22729), (192, 22741), (216, 22801), (225, 22825), (246, 22885), (271, 22981), (276, 23014), (298, 23086), (303, 23110), (308, 23125), (359, 23338), (363, 23350),

Gene: Ben11_32 Start: 32041, Stop: 33243, Start Num: 37

Candidate Starts for Ben11_32:

(Start: 37 @32041 has 98 MA's), (49, 32074), (84, 32218), (89, 32227), (91, 32236), (101, 32275), (105, 32284), (Start: 111 @32302 has 3 MA's), (116, 32320), (123, 32338), (125, 32344), (128, 32356), (132, 32374), (136, 32389), (150, 32422), (158, 32449), (177, 32494), (204, 32575), (218, 32602), (225, 32620), (232, 32638), (246, 32680), (252, 32704), (272, 32779), (276, 32809), (292, 32869), (298, 32881), (301, 32899), (317, 32998), (318, 33001), (355, 33106), (357, 33112), (359, 33130), (380, 33217),

Gene: Bern_28 Start: 23278, Stop: 24291, Start Num: 74

Candidate Starts for Bern_28:

(42, 23140), (51, 23179), (53, 23209), (55, 23215), (Start: 74 @23278 has 99 MA's), (Start: 111 @23389 has 3 MA's), (150, 23503), (156, 23524), (194, 23620), (199, 23638), (209, 23662), (217, 23674), (250, 23728), (270, 23806), (292, 23902), (298, 23914), (308, 23953), (312, 23989), (355, 24136),

Gene: Bernardo_33 Start: 32309, Stop: 33511, Start Num: 37

Candidate Starts for Bernardo_33:

(Start: 37 @32309 has 98 MA's), (49, 32342), (84, 32486), (89, 32495), (91, 32504), (101, 32543), (105, 32552), (Start: 111 @32570 has 3 MA's), (127, 32621), (129, 32630), (132, 32642), (136, 32657), (155, 32702), (158, 32717), (177, 32762), (200, 32831), (205, 32846), (213, 32858), (223, 32882), (239, 32930), (242, 32936), (244, 32942), (246, 32948), (252, 32972), (272, 33047), (276, 33077), (292, 33137), (298, 33149), (301, 33167), (318, 33269), (355, 33374), (357, 33380), (368, 33449),

Gene: BiPauneto_47 Start: 34721, Stop: 35812, Start Num: 78

Candidate Starts for BiPauneto_47:

(Start: 78 @34721 has 34 MA's), (88, 34754), (117, 34850), (182, 35033), (204, 35102), (250, 35240), (253, 35252), (254, 35255),

Gene: BigPhil_20 Start: 20087, Stop: 21244, Start Num: 34

Candidate Starts for BigPhil_20:

(Start: 34 @20087 has 3 MA's), (Start: 37 @20090 has 98 MA's), (Start: 70 @20219 has 1 MA's), (80, 20249), (90, 20279), (92, 20288), (94, 20303), (103, 20327), (Start: 111 @20351 has 3 MA's), (114, 20363), (136, 20438), (139, 20447), (150, 20471), (158, 20501), (213, 20585), (214, 20588), (223, 20609), (289, 20858), (292, 20867), (301, 20897), (308, 20918), (315, 20987), (381, 21221),

Gene: Biglebops_24 Start: 22900, Stop: 23907, Start Num: 76

Candidate Starts for Biglebops_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: Bipper_28 Start: 26155, Stop: 27216, Start Num: 76

Candidate Starts for Bipper_28:

(Start: 76 @26155 has 65 MA's), (118, 26293), (126, 26314), (127, 26317), (140, 26365), (141, 26368), (168, 26443), (187, 26488), (202, 26530), (203, 26533), (213, 26551), (223, 26575), (229, 26587), (232, 26596), (233, 26602), (271, 26734), (290, 26824), (308, 26881), (311, 26917), (316, 26956), (346, 27037), (382, 27199),

Gene: Blizzard_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Blizzard_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: BobbyK_30 Start: 32610, Stop: 33767, Start Num: 37

Candidate Starts for BobbyK_30:

(Start: 37 @32610 has 98 MA's), (58, 32703), (66, 32718), (69, 32733), (71, 32745), (79, 32763), (121, 32904), (125, 32913), (129, 32931), (136, 32958), (147, 32973), (150, 32979), (152, 32985), (155, 32991), (164, 33018), (168, 33027), (187, 33060), (201, 33093), (227, 33153), (236, 33183), (239, 33189), (258, 33234), (271, 33288), (272, 33291), (308, 33435), (343, 33588),

Gene: Bobquesha_30 Start: 24333, Stop: 25337, Start Num: 76

Candidate Starts for Bobquesha_30:

(Start: 76 @24333 has 65 MA's), (131, 24501), (148, 24546), (150, 24552), (166, 24606), (201, 24696), (211, 24717), (217, 24726), (270, 24858), (271, 24861), (306, 24999), (314, 25068), (372, 25272),

Gene: Boiiii_28 Start: 23358, Stop: 24371, Start Num: 74

Candidate Starts for Boiiii_28:

(10, 22914), (60, 23313), (Start: 74 @23358 has 99 MA's), (Start: 111 @23469 has 3 MA's), (150, 23583), (194, 23700), (209, 23742), (217, 23754), (250, 23808), (270, 23886), (292, 23982), (298, 23994), (304, 24024), (308, 24033), (331, 24147), (355, 24216),

Gene: Bonum_48 Start: 35639, Stop: 36694, Start Num: 78

Candidate Starts for Bonum_48:

(57, 35576), (Start: 78 @35639 has 34 MA's), (145, 35852), (173, 35909), (223, 36035), (298, 36323), (381, 36668),

Gene: BoostSeason_25 Start: 21308, Stop: 22333, Start Num: 76

Candidate Starts for BoostSeason_25:

(47, 21224), (Start: 76 @21308 has 65 MA's), (109, 21413), (129, 21473), (148, 21527), (150, 21533), (180, 21614), (182, 21620), (187, 21635), (188, 21638), (272, 21842), (379, 22301), (381, 22310),

Gene: Bosection6_22 Start: 20220, Stop: 21437, Start Num: 63

Candidate Starts for Bosection6_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: BourbonZero_21 Start: 22227, Stop: 23426, Start Num: 40

Candidate Starts for BourbonZero_21:

(Start: 40 @22227 has 19 MA's), (64, 22329), (71, 22359), (Start: 76 @22368 has 65 MA's), (87, 22407), (91, 22419), (101, 22458), (113, 22494), (116, 22503), (128, 22539), (141, 22587), (192, 22719), (195, 22725), (236, 22839), (246, 22863), (270, 22956), (276, 22992), (290, 23046), (298, 23064), (345, 23256), (371, 23364),

Gene: BrainDrainer_22 Start: 21566, Stop: 22720, Start Num: 40

Candidate Starts for BrainDrainer_22:

(Start: 40 @21566 has 19 MA's), (64, 21668), (68, 21680), (89, 21749), (116, 21842), (132, 21896), (141, 21926), (147, 21935), (159, 21974), (179, 22022), (188, 22046), (192, 22058), (225, 22082), (254, 22172), (285, 22289), (289, 22325), (292, 22334), (309, 22391), (313, 22430),

Gene: Brocalys_20 Start: 19901, Stop: 21058, Start Num: 36

Candidate Starts for Brocalys_20:

(Start: 36 @19901 has 2 MA's), (66, 20009), (Start: 70 @20030 has 1 MA's), (90, 20090), (94, 20114), (Start: 95 @20120 has 1 MA's), (103, 20138), (106, 20150), (Start: 111 @20162 has 3 MA's), (114, 20174), (132, 20234), (136, 20249), (139, 20258), (150, 20282), (158, 20312), (213, 20396), (214, 20399), (223, 20420), (231, 20441), (233, 20450), (236, 20462), (241, 20471), (308, 20732), (315, 20801), (381, 21035),

Gene: BrownCNA_31 Start: 32871, Stop: 34028, Start Num: 37

Candidate Starts for BrownCNA_31:

(Start: 37 @32871 has 98 MA's), (58, 32964), (66, 32979), (69, 32994), (71, 33006), (79, 33024), (91, 33066), (121, 33165), (125, 33174), (129, 33192), (136, 33219), (147, 33234), (150, 33240), (152, 33246), (155, 33252), (164, 33279), (168, 33288), (187, 33321), (201, 33354), (225, 33408), (227,

33414), (236, 33444), (239, 33450), (248, 33471), (258, 33495), (271, 33549), (272, 33552), (308, 33696),

Gene: Bryler_28 Start: 22694, Stop: 23755, Start Num: 76

Candidate Starts for Bryler_28:

(Start: 76 @22694 has 65 MA's), (100, 22772), (102, 22775), (109, 22793), (144, 22901), (155, 22928), (156, 22934), (194, 23030), (198, 23042), (240, 23144), (249, 23195), (275, 23312), (336, 23555), (340, 23573), (355, 23612),

Gene: Buggaboo_46 Start: 36118, Stop: 37173, Start Num: 78

Candidate Starts for Buggaboo_46:

(Start: 78 @36118 has 34 MA's), (145, 36331), (223, 36514), (298, 36802), (381, 37147),

Gene: CREW_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for CREW_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Cain_28 Start: 22682, Stop: 23743, Start Num: 76

Candidate Starts for Cain_28:

(Start: 76 @22682 has 65 MA's), (100, 22760), (102, 22763), (109, 22781), (144, 22889), (155, 22916), (156, 22922), (194, 23018), (198, 23030), (240, 23132), (249, 23183), (275, 23300), (336, 23543), (340, 23561), (355, 23600),

Gene: CallaLilly_28 Start: 23279, Stop: 24292, Start Num: 74

Candidate Starts for CallaLilly_28:

(10, 22835), (60, 23234), (Start: 74 @23279 has 99 MA's), (150, 23504), (194, 23621), (209, 23663), (217, 23675), (250, 23729), (270, 23807), (292, 23903), (304, 23945), (308, 23954), (331, 24068), (355, 24137),

Gene: Calm_21 Start: 21702, Stop: 22874, Start Num: 41

Candidate Starts for Calm_21:

(Start: 39 @21699 has 7 MA's), (Start: 41 @21702 has 14 MA's), (Start: 70 @21828 has 1 MA's), (83, 21870), (87, 21882), (89, 21885), (Start: 95 @21918 has 1 MA's), (99, 21930), (104, 21939), (116, 21978), (123, 21996), (132, 22032), (136, 22047), (156, 22098), (165, 22128), (184, 22170), (215, 22194), (230, 22230), (232, 22236), (241, 22263), (246, 22281), (272, 22374), (273, 22377), (290, 22461), (321, 22599), (330, 22617), (355, 22701),

Gene: Capricorn_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Capricorn_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Carcharodon_22 Start: 20220, Stop: 21437, Start Num: 63

Candidate Starts for Carcharodon_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Casbah_32 Start: 32071, Stop: 33273, Start Num: 37

Candidate Starts for Casbah_32:

(Start: 37 @32071 has 98 MA's), (49, 32104), (84, 32248), (89, 32257), (91, 32266), (101, 32305), (105, 32314), (Start: 111 @32332 has 3 MA's), (116, 32350), (123, 32368), (125, 32374), (128, 32386), (132, 32404), (136, 32419), (150, 32452), (158, 32479), (177, 32524), (204, 32605), (218, 32632), (225, 32650), (232, 32668), (246, 32710), (252, 32734), (272, 32809), (276, 32839), (292, 32899), (298, 32911), (301, 32929), (317, 33028), (318, 33031), (355, 33136), (357, 33142), (359, 33160), (380, 33247),

Gene: CaseJules_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for CaseJules_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Cerasum_20 Start: 20087, Stop: 21244, Start Num: 34

Candidate Starts for Cerasum_20:

(Start: 34 @20087 has 3 MA's), (Start: 37 @20090 has 98 MA's), (Start: 70 @20219 has 1 MA's), (80, 20249), (90, 20279), (92, 20288), (94, 20303), (103, 20327), (Start: 111 @20351 has 3 MA's), (114, 20363), (136, 20438), (139, 20447), (150, 20471), (158, 20501), (213, 20585), (214, 20588), (223, 20609), (289, 20858), (292, 20867), (301, 20897), (308, 20918), (315, 20987), (381, 21221),

Gene: ChaChing_33 Start: 32234, Stop: 33436, Start Num: 37

Candidate Starts for ChaChing_33:

(Start: 37 @32234 has 98 MA's), (49, 32267), (84, 32411), (89, 32420), (91, 32429), (101, 32468), (105, 32477), (Start: 111 @32495 has 3 MA's), (116, 32513), (123, 32531), (125, 32537), (128, 32549), (132, 32567), (136, 32582), (150, 32615), (158, 32642), (177, 32687), (204, 32768), (218, 32795), (225, 32813), (232, 32831), (246, 32873), (252, 32897), (272, 32972), (276, 33002), (292, 33062), (298, 33074), (301, 33092), (318, 33194), (355, 33299), (357, 33305), (359, 33323), (380, 33410),

Gene: Chalmers_33 Start: 33026, Stop: 34228, Start Num: 37

Candidate Starts for Chalmers_33:

(Start: 37 @33026 has 98 MA's), (49, 33059), (84, 33203), (89, 33212), (91, 33221), (101, 33260), (105, 33269), (Start: 111 @33287 has 3 MA's), (116, 33305), (123, 33323), (125, 33329), (128, 33341), (132, 33359), (136, 33374), (150, 33407), (158, 33434), (177, 33479), (204, 33560), (218, 33587), (225, 33605), (232, 33623), (246, 33665), (252, 33689), (272, 33764), (276, 33794), (292, 33854), (298, 33866), (301, 33884), (318, 33986), (355, 34091), (357, 34097), (359, 34115), (380, 34202),

Gene: Chancellor_29 Start: 24596, Stop: 25600, Start Num: 76

Candidate Starts for Chancellor_29:

(Start: 76 @24596 has 65 MA's), (131, 24764), (148, 24809), (150, 24815), (166, 24869), (172, 24878), (201, 24959), (211, 24980), (216, 24986), (217, 24989), (270, 25121), (271, 25124), (301, 25247),

Gene: Chandler_33 Start: 33002, Stop: 34204, Start Num: 37

Candidate Starts for Chandler_33:

(Start: 37 @33002 has 98 MA's), (49, 33035), (84, 33179), (89, 33188), (91, 33197), (101, 33236), (105, 33245), (Start: 111 @33263 has 3 MA's), (116, 33281), (123, 33299), (125, 33305), (128, 33317), (132, 33335), (136, 33350), (150, 33383), (158, 33410), (177, 33455), (204, 33536), (218, 33563), (225, 33581), (232, 33599), (246, 33641), (252, 33665), (272, 33740), (276, 33770), (292, 33830), (298, 33842), (301, 33860), (318, 33962), (355, 34067), (357, 34073), (359, 34091), (380, 34178),

Gene: Charlie_22 Start: 20220, Stop: 21437, Start Num: 63

Candidate Starts for Charlie_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Chavito_28 Start: 22750, Stop: 24003, Start Num: 29

Candidate Starts for Chavito_28:

(29, 22750), (30, 22756), (50, 22858), (61, 22921), (67, 22939), (Start: 111 @23074 has 3 MA's), (115, 23089), (127, 23125), (144, 23182), (148, 23188), (198, 23323), (203, 23341), (227, 23389), (247, 23407), (272, 23503), (290, 23584), (293, 23593), (304, 23632), (306, 23635), (352, 23833), (379, 23968),

Gene: CheetoDust_28 Start: 23333, Stop: 24346, Start Num: 74

Candidate Starts for CheetoDust_28:

(10, 22889), (60, 23288), (Start: 74 @23333 has 99 MA's), (119, 23465), (150, 23558), (194, 23675), (209, 23717), (217, 23729), (250, 23783), (270, 23861), (292, 23957), (304, 23999), (308, 24008), (331, 24122), (355, 24191),

Gene: Cheetobro_29 Start: 24593, Stop: 25597, Start Num: 76

Candidate Starts for Cheetobro_29:

(Start: 76 @24593 has 65 MA's), (131, 24761), (148, 24806), (150, 24812), (166, 24866), (172, 24875), (201, 24956), (211, 24977), (216, 24983), (217, 24986), (270, 25118), (271, 25121), (301, 25244),

Gene: Chentzyk_32 Start: 32092, Stop: 33294, Start Num: 37

Candidate Starts for Chentzyk_32:

(Start: 37 @32092 has 98 MA's), (49, 32125), (84, 32269), (89, 32278), (91, 32287), (101, 32326), (105, 32335), (Start: 111 @32353 has 3 MA's), (116, 32371), (123, 32389), (125, 32395), (128, 32407), (132, 32425), (136, 32440), (150, 32473), (158, 32500), (177, 32545), (204, 32626), (218, 32653), (225, 32671), (232, 32689), (246, 32731), (252, 32755), (272, 32830), (276, 32860), (292, 32920), (298, 32932), (301, 32950), (318, 33052), (355, 33157), (357, 33163), (359, 33181), (380, 33268),

Gene: Chewbacca_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Chewbacca_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: ChipMunk_34 Start: 25662, Stop: 26558, Start Num: 98

Candidate Starts for ChipMunk_34:

(Start: 98 @25662 has 5 MA's), (185, 25893), (230, 25956), (232, 25962), (256, 26034), (270, 26088), (358, 26424),

Gene: Chris_27 Start: 22610, Stop: 23596, Start Num: 76

Candidate Starts for Chris_27:

(Start: 76 @22610 has 65 MA's), (110, 22715), (130, 22778), (136, 22799), (150, 22832), (155, 22847), (178, 22907), (216, 23000), (233, 23039), (271, 23138), (284, 23189), (301, 23261), (308, 23282), (328, 23363), (360, 23465),

Gene: ChrisnMich_29 Start: 31570, Stop: 32727, Start Num: 37

Candidate Starts for ChrisnMich_29:

(Start: 37 @31570 has 98 MA's), (58, 31663), (66, 31678), (69, 31693), (71, 31705), (79, 31723), (105, 31813), (121, 31864), (125, 31873), (126, 31879), (129, 31891), (136, 31918), (147, 31933), (150, 31939), (152, 31945), (164, 31978), (168, 31987), (187, 32020), (201, 32053), (236, 32143), (239, 32149), (271, 32248), (272, 32251), (308, 32395), (343, 32548),

Gene: CicholasNage_21 Start: 21687, Stop: 22862, Start Num: 39

Candidate Starts for CicholasNage_21:

(Start: 39 @21687 has 7 MA's), (Start: 41 @21690 has 14 MA's), (Start: 70 @21816 has 1 MA's), (83, 21858), (87, 21870), (89, 21873), (Start: 95 @21906 has 1 MA's), (99, 21918), (116, 21966), (123, 21984), (132, 22020), (136, 22035), (156, 22086), (165, 22116), (184, 22158), (215, 22182), (230, 22218), (232, 22224), (241, 22251), (246, 22269), (272, 22362), (273, 22365), (290, 22449), (321, 22587), (330, 22605), (355, 22689),

Gene: Clautastrophe_22 Start: 22247, Stop: 23464, Start Num: 40

Candidate Starts for Clautastrophe_22:

(Start: 40 @22247 has 19 MA's), (64, 22349), (68, 22361), (71, 22379), (Start: 76 @22388 has 65 MA's), (87, 22427), (Start: 95 @22463 has 1 MA's), (101, 22478), (104, 22484), (113, 22514), (114, 22517), (126, 22553), (129, 22565), (147, 22616), (149, 22619), (169, 22679), (181, 22706), (186, 22721), (188, 22727), (192, 22739), (216, 22799), (225, 22823), (246, 22883), (271, 22979), (276, 23012), (298, 23084), (303, 23108), (359, 23336), (363, 23348),

Gene: Clifton_19 Start: 20217, Stop: 21371, Start Num: 37

Candidate Starts for Clifton_19:

(Start: 34 @20214 has 3 MA's), (Start: 37 @20217 has 98 MA's), (54, 20298), (Start: 70 @20346 has 1 MA's), (90, 20406), (92, 20415), (94, 20430), (103, 20454), (Start: 111 @20478 has 3 MA's), (114, 20490), (136, 20565), (139, 20574), (150, 20598), (158, 20628), (213, 20712), (214, 20715), (223, 20736), (270, 20895), (289, 20985), (292, 20994), (301, 21024), (308, 21045), (381, 21348),

Gene: Clipper_28 Start: 23333, Stop: 24346, Start Num: 74

Candidate Starts for Clipper_28:

(10, 22889), (60, 23288), (Start: 74 @23333 has 99 MA's), (Start: 111 @23444 has 3 MA's), (150, 23558), (194, 23675), (209, 23717), (217, 23729), (250, 23783), (270, 23861), (288, 23945), (292, 23957), (298, 23969), (304, 23999), (308, 24008), (331, 24122), (355, 24191),

Gene: Commandaria_46 Start: 36317, Stop: 37420, Start Num: 78

Candidate Starts for Commandaria_46:

(Start: 78 @36317 has 34 MA's), (117, 36446), (128, 36476), (250, 36836), (271, 36917), (344, 37220),

Gene: Compostia_34 Start: 32649, Stop: 33851, Start Num: 37

Candidate Starts for Compostia_34:

(Start: 37 @32649 has 98 MA's), (84, 32826), (89, 32835), (91, 32844), (101, 32883), (105, 32892), (Start: 111 @32910 has 3 MA's), (116, 32928), (123, 32946), (125, 32952), (128, 32964), (132, 32982), (136, 32997), (150, 33030), (158, 33057), (177, 33102), (204, 33183), (218, 33210), (225, 33228), (232, 33246), (246, 33288), (276, 33417), (301, 33507), (318, 33609), (341, 33675), (355, 33714), (367, 33786), (381, 33828),

Gene: Cooper_30 Start: 31786, Stop: 32946, Start Num: 37

Candidate Starts for Cooper_30:

(Start: 37 @31786 has 98 MA's), (66, 31894), (69, 31909), (71, 31921), (Start: 76 @31930 has 65 MA's), (79, 31939), (84, 31963), (91, 31981), (121, 32080), (125, 32089), (126, 32095), (129, 32107), (136, 32134), (147, 32149), (150, 32155), (152, 32161), (153, 32164), (158, 32182), (164, 32197), (187, 32239), (201, 32272), (218, 32308), (227, 32332), (236, 32362), (239, 32368), (263, 32434), (271, 32467), (272, 32470), (308, 32614), (355, 32803),

Gene: CrimD_28 Start: 23294, Stop: 24307, Start Num: 74

Candidate Starts for CrimD_28:

(Start: 74 @23294 has 99 MA's), (Start: 111 @23405 has 3 MA's), (150, 23519), (194, 23636), (209, 23678), (217, 23690), (250, 23744), (270, 23822), (288, 23906), (292, 23918), (298, 23930), (308, 23969), (374, 24248),

Gene: Crumble_19 Start: 20264, Stop: 21418, Start Num: 37

Candidate Starts for Crumble_19:

(Start: 34 @20261 has 3 MA's), (Start: 37 @20264 has 98 MA's), (54, 20345), (Start: 70 @20393 has 1 MA's), (90, 20453), (92, 20462), (94, 20477), (103, 20501), (Start: 111 @20525 has 3 MA's), (114, 20537), (136, 20612), (139, 20621), (150, 20645), (158, 20675), (213, 20759), (214, 20762), (223, 20783), (270, 20942), (289, 21032), (292, 21041), (301, 21071), (308, 21092), (381, 21395),

Gene: Cubone_22 Start: 20245, Stop: 21459, Start Num: 65

Candidate Starts for Cubone_22:

(18, 19915), (32, 20113), (Start: 63 @20242 has 6 MA's), (Start: 65 @20245 has 16 MA's), (142, 20506), (202, 20677), (255, 20827), (266, 20866), (287, 20968), (296, 21010), (370, 21382),

Gene: Dadosky_28 Start: 24011, Stop: 25075, Start Num: 46

Candidate Starts for Dadosky_28:

(Start: 46 @24011 has 3 MA's), (Start: 70 @24101 has 1 MA's), (81, 24131), (96, 24185), (99, 24191), (120, 24239), (132, 24278), (137, 24296), (138, 24299), (174, 24380), (220, 24428), (228, 24446), (271, 24587), (290, 24677), (291, 24680), (292, 24683), (302, 24716), (306, 24728), (323, 24815), (325, 24818), (355, 24914), (377, 25031),

Gene: Daisy_33 Start: 32246, Stop: 33448, Start Num: 37

Candidate Starts for Daisy_33:

(Start: 37 @32246 has 98 MA's), (49, 32279), (84, 32423), (89, 32432), (91, 32441), (101, 32480), (105, 32489), (Start: 111 @32507 has 3 MA's), (116, 32525), (123, 32543), (125, 32549), (128, 32561), (132, 32579), (136, 32594), (150, 32627), (158, 32654), (177, 32699), (204, 32780), (218, 32807), (225, 32825), (232, 32843), (246, 32885), (252, 32909), (272, 32984), (276, 33014), (292, 33074), (298, 33086), (301, 33104), (318, 33206), (355, 33311), (357, 33317), (359, 33335), (380, 33422),

Gene: Dalilpop_49 Start: 37250, Stop: 38311, Start Num: 77

Candidate Starts for Dalilpop_49:

(Start: 77 @37250 has 3 MA's), (110, 37358), (127, 37409), (133, 37436), (151, 37481), (182, 37544), (213, 37628), (222, 37649), (224, 37655), (234, 37682), (235, 37685), (286, 37910), (381, 38285),

Gene: Dalmuri_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Dalmuri_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: DartGoblin_28 Start: 23263, Stop: 24276, Start Num: 74

Candidate Starts for DartGoblin_28:

(60, 23218), (Start: 74 @23263 has 99 MA's), (85, 23296), (Start: 111 @23374 has 3 MA's), (150, 23488), (194, 23605), (209, 23647), (217, 23659), (250, 23713), (270, 23791), (288, 23875), (292, 23887), (298, 23899), (308, 23938), (312, 23974), (355, 24121), (374, 24217),

Gene: DarthP_27 Start: 23700, Stop: 24704, Start Num: 74

Candidate Starts for DarthP_27:

(Start: 74 @23700 has 99 MA's), (194, 24042), (257, 24174), (264, 24201), (290, 24315), (327, 24468), (355, 24561), (356, 24564), (366, 24627), (372, 24639),

Gene: Dartin_28 Start: 22728, Stop: 23693, Start Num: 74

Candidate Starts for Dartin_28:

(Start: 74 @22728 has 99 MA's), (Start: 78 @22734 has 34 MA's), (127, 22887), (131, 22905), (136, 22923), (150, 22956), (162, 22998), (187, 23058), (194, 23073), (270, 23259), (271, 23262), (286,

23334), (308, 23403), (316, 23451), (321, 23466), (333, 23499), (349, 23538), (375, 23637),

Gene: Deby_28 Start: 23290, Stop: 24303, Start Num: 74

Candidate Starts for Deby_28:

(Start: 74 @23290 has 99 MA's), (Start: 111 @23401 has 3 MA's), (150, 23515), (194, 23632), (217, 23686), (250, 23740), (270, 23818), (292, 23914), (298, 23926), (304, 23956), (308, 23965), (331, 24079), (355, 24148),

Gene: Deenasa_33 Start: 32985, Stop: 34187, Start Num: 37

Candidate Starts for Deenasa_33:

(Start: 37 @32985 has 98 MA's), (49, 33018), (84, 33162), (89, 33171), (91, 33180), (101, 33219), (105, 33228), (Start: 111 @33246 has 3 MA's), (116, 33264), (123, 33282), (125, 33288), (128, 33300), (132, 33318), (136, 33333), (150, 33366), (158, 33393), (177, 33438), (204, 33519), (218, 33546), (225, 33564), (232, 33582), (246, 33624), (252, 33648), (272, 33723), (276, 33753), (292, 33813), (298, 33825), (301, 33843), (318, 33945), (355, 34050), (357, 34056), (359, 34074), (380, 34161),

Gene: Devera_28 Start: 23337, Stop: 24350, Start Num: 74

Candidate Starts for Devera_28:

(Start: 74 @23337 has 99 MA's), (Start: 111 @23448 has 3 MA's), (114, 23457), (150, 23562), (185, 23658), (194, 23679), (209, 23721), (217, 23733), (250, 23787), (270, 23865), (292, 23961), (298, 23973), (308, 24012), (331, 24126), (355, 24195), (374, 24291),

Gene: Devonte_33 Start: 32210, Stop: 33412, Start Num: 37

Candidate Starts for Devonte_33:

(Start: 37 @32210 has 98 MA's), (49, 32243), (84, 32387), (89, 32396), (91, 32405), (101, 32444), (105, 32453), (Start: 111 @32471 has 3 MA's), (116, 32489), (123, 32507), (125, 32513), (128, 32525), (132, 32543), (136, 32558), (150, 32591), (158, 32618), (177, 32663), (204, 32744), (218, 32771), (225, 32789), (232, 32807), (246, 32849), (252, 32873), (272, 32948), (276, 32978), (292, 33038), (298, 33050), (301, 33068), (318, 33170), (355, 33275), (357, 33281), (359, 33299), (380, 33386),

Gene: DirkDirk_21 Start: 21671, Stop: 22843, Start Num: 41

Candidate Starts for DirkDirk_21:

(Start: 39 @21668 has 7 MA's), (Start: 41 @21671 has 14 MA's), (Start: 70 @21797 has 1 MA's), (83, 21839), (87, 21851), (89, 21854), (Start: 95 @21887 has 1 MA's), (99, 21899), (116, 21947), (123, 21965), (132, 22001), (136, 22016), (156, 22067), (165, 22097), (184, 22139), (215, 22163), (230, 22199), (232, 22205), (241, 22232), (246, 22250), (272, 22343), (273, 22346), (290, 22430), (321, 22568), (330, 22586), (355, 22670),

Gene: DismalFunk_25 Start: 21282, Stop: 22277, Start Num: 76

Candidate Starts for DismalFunk_25:

(19, 20961), (28, 21099), (47, 21198), (Start: 76 @21282 has 65 MA's), (99, 21363), (109, 21387), (129, 21447), (148, 21501), (150, 21507), (187, 21609), (188, 21612), (206, 21660), (209, 21666), (230, 21708), (250, 21732), (272, 21816), (290, 21900), (308, 21957), (379, 22254),

Gene: DismalStressor_25 Start: 21282, Stop: 22277, Start Num: 76

Candidate Starts for DismalStressor_25:

(28, 21099), (47, 21198), (Start: 76 @21282 has 65 MA's), (99, 21363), (109, 21387), (129, 21447), (148, 21501), (150, 21507), (187, 21609), (188, 21612), (206, 21660), (209, 21666), (230, 21708), (250, 21732), (272, 21816), (290, 21900), (308, 21957), (379, 22254),

Gene: Dole_28 Start: 23339, Stop: 24352, Start Num: 74

Candidate Starts for Dole_28:

(Start: 74 @23339 has 99 MA's), (Start: 111 @23450 has 3 MA's), (114, 23459), (150, 23564), (185, 23660), (194, 23681), (209, 23723), (217, 23735), (250, 23789), (270, 23867), (292, 23963), (298, 23975), (308, 24014), (331, 24128), (355, 24197), (374, 24293),

Gene: Doughnut_25 Start: 21302, Stop: 22327, Start Num: 76

Candidate Starts for Doughnut_25:

(47, 21218), (Start: 76 @21302 has 65 MA's), (109, 21407), (129, 21467), (148, 21521), (150, 21527), (180, 21608), (182, 21614), (187, 21629), (188, 21632), (272, 21836), (379, 22295), (381, 22304),

Gene: Douzhi_21 Start: 21427, Stop: 22581, Start Num: 40

Candidate Starts for Douzhi_21:

(Start: 40 @21427 has 19 MA's), (64, 21529), (68, 21541), (89, 21610), (116, 21703), (132, 21757), (141, 21787), (147, 21796), (159, 21835), (179, 21883), (188, 21907), (192, 21919), (225, 21943), (254, 22033), (285, 22150), (289, 22186), (292, 22195), (309, 22252), (313, 22291),

Gene: DrHayes_28 Start: 23284, Stop: 24297, Start Num: 74

Candidate Starts for DrHayes_28:

(60, 23239), (Start: 74 @23284 has 99 MA's), (Start: 111 @23395 has 3 MA's), (150, 23509), (194, 23626), (209, 23668), (217, 23680), (250, 23734), (270, 23812), (292, 23908), (298, 23920), (308, 23959), (312, 23995), (355, 24142), (374, 24238),

Gene: DuncansLeg_22 Start: 22232, Stop: 23449, Start Num: 40

Candidate Starts for DuncansLeg_22:

(Start: 40 @22232 has 19 MA's), (48, 22259), (64, 22334), (68, 22346), (71, 22364), (87, 22412), (Start: 95 @22448 has 1 MA's), (101, 22463), (104, 22469), (113, 22499), (114, 22502), (116, 22508), (129, 22550), (139, 22586), (147, 22601), (149, 22604), (150, 22607), (151, 22610), (188, 22712), (192, 22724), (214, 22781), (216, 22784), (225, 22808), (246, 22868), (276, 22997), (368, 23375), (372, 23381),

Gene: Duplicity_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Duplicity_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Durfee_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Durfee_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: EGUunicorn_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for EGUunicorn_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Efra2_28 Start: 22526, Stop: 23587, Start Num: 74

Candidate Starts for Efra2_28:

(Start: 74 @22526 has 99 MA's), (Start: 111 @22640 has 3 MA's), (150, 22754), (156, 22775), (186, 22853), (189, 22862), (198, 22883), (199, 22889), (255, 22997), (270, 23057), (294, 23177), (295, 23183), (297, 23189), (311, 23279), (347, 23405), (351, 23420),

Gene: Ekdilam_25 Start: 23459, Stop: 24463, Start Num: 74

Candidate Starts for Ekdilam_25:

(Start: 74 @23459 has 99 MA's), (136, 23651), (144, 23672), (156, 23705), (166, 23738), (194, 23801), (257, 23933), (264, 23960), (290, 24074), (327, 24227), (355, 24320), (366, 24386),

Gene: Ellie_25 Start: 23458, Stop: 24465, Start Num: 74

Candidate Starts for Ellie_25:

(Start: 74 @23458 has 99 MA's), (104, 23548), (Start: 111 @23569 has 3 MA's), (136, 23650), (150, 23683), (156, 23704), (271, 23989), (279, 24028), (366, 24388), (382, 24448),

Gene: Ellson_22 Start: 22237, Stop: 23436, Start Num: 40

Candidate Starts for Ellson_22:

(Start: 40 @22237 has 19 MA's), (64, 22339), (71, 22369), (Start: 76 @22378 has 65 MA's), (87, 22417), (91, 22429), (101, 22468), (113, 22504), (116, 22513), (128, 22549), (141, 22597), (192, 22729), (195, 22735), (246, 22873), (276, 23002), (290, 23056), (298, 23074), (345, 23266), (371, 23374),

Gene: Emerson_28 Start: 23316, Stop: 24329, Start Num: 74

Candidate Starts for Emerson_28:

(10, 22872), (60, 23271), (Start: 74 @23316 has 99 MA's), (150, 23541), (194, 23658), (209, 23700), (217, 23712), (250, 23766), (270, 23844), (292, 23940), (298, 23952), (304, 23982), (308, 23991), (331, 24105), (355, 24174),

Gene: Emianna_44 Start: 35974, Stop: 37032, Start Num: 78

Candidate Starts for Emianna_44:

(1, 34534), (2, 34831), (3, 35062), (7, 35431), (33, 35809), (38, 35824), (44, 35842), (Start: 78 @35974 has 34 MA's), (199, 36319), (222, 36370), (240, 36418),

Gene: Enceladus_21 Start: 21672, Stop: 22844, Start Num: 41

Candidate Starts for Enceladus_21:

(Start: 39 @21669 has 7 MA's), (Start: 41 @21672 has 14 MA's), (Start: 70 @21798 has 1 MA's), (83, 21840), (87, 21852), (89, 21855), (Start: 95 @21888 has 1 MA's), (99, 21900), (116, 21948), (123, 21966), (132, 22002), (136, 22017), (156, 22068), (165, 22098), (184, 22140), (215, 22164), (230, 22200), (232, 22206), (241, 22233), (246, 22251), (272, 22344), (273, 22347), (290, 22431), (321, 22569), (330, 22587), (355, 22671),

Gene: Enkosi_24 Start: 22900, Stop: 23907, Start Num: 76

Candidate Starts for Enkosi_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: Ennea_51 Start: 36974, Stop: 38035, Start Num: 78

Candidate Starts for Ennea_51:

(Start: 78 @36974 has 34 MA's), (134, 37160), (210, 37346), (213, 37349), (272, 37559),

Gene: Epah_29 Start: 31578, Stop: 32735, Start Num: 37

Candidate Starts for Epah_29:

(Start: 37 @31578 has 98 MA's), (58, 31671), (66, 31686), (69, 31701), (71, 31713), (79, 31731), (105, 31821), (121, 31872), (125, 31881), (126, 31887), (129, 31899), (136, 31926), (147, 31941), (150, 31947), (152, 31953), (164, 31986), (168, 31995), (187, 32028), (201, 32061), (236, 32151), (239, 32157), (271, 32256), (272, 32259), (308, 32403), (343, 32556),

Gene: Fanaw_29 Start: 32276, Stop: 33433, Start Num: 37

Candidate Starts for Fanaw_29:

(Start: 37 @32276 has 98 MA's), (58, 32369), (66, 32384), (69, 32399), (71, 32411), (79, 32429), (91, 32471), (121, 32570), (125, 32579), (129, 32597), (136, 32624), (147, 32639), (150, 32645), (152, 32651), (155, 32657), (164, 32684), (168, 32693), (187, 32726), (201, 32759), (236, 32849), (239, 32855), (258, 32900), (271, 32954), (272, 32957), (308, 33101), (343, 33254),

Gene: Fefferhead_27 Start: 23613, Stop: 24665, Start Num: 74

Candidate Starts for Fefferhead_27:

(62, 23577), (Start: 74 @23613 has 99 MA's), (104, 23703), (Start: 111 @23724 has 3 MA's), (122, 23751), (150, 23838), (156, 23859), (162, 23880), (240, 24069), (257, 24147), (271, 24204), (275, 24237), (281, 24252), (350, 24507), (355, 24522), (368, 24603), (381, 24642),

Gene: Findley_25 Start: 21282, Stop: 22307, Start Num: 76

Candidate Starts for Findley_25:

(28, 21099), (47, 21198), (Start: 76 @21282 has 65 MA's), (99, 21363), (109, 21387), (129, 21447), (148, 21501), (150, 21507), (180, 21588), (182, 21594), (187, 21609), (188, 21612), (272, 21816), (379, 22275), (381, 22284),

Gene: Finnry_22 Start: 22251, Stop: 23468, Start Num: 40

Candidate Starts for Finnry_22:

(Start: 40 @22251 has 19 MA's), (64, 22353), (68, 22365), (71, 22383), (Start: 76 @22392 has 65 MA's), (87, 22431), (Start: 95 @22467 has 1 MA's), (101, 22482), (104, 22488), (113, 22518), (114, 22521), (126, 22557), (129, 22569), (147, 22620), (149, 22623), (169, 22683), (181, 22710), (186, 22725), (188, 22731), (192, 22743), (216, 22803), (225, 22827), (246, 22887), (271, 22983), (276, 23016), (298, 23088), (303, 23112), (308, 23127), (359, 23340), (363, 23352),

Gene: Fionnbharth_29 Start: 24586, Stop: 25590, Start Num: 76

Candidate Starts for Fionnbharth_29:

(Start: 76 @24586 has 65 MA's), (Start: 95 @24655 has 1 MA's), (131, 24754), (148, 24799), (150, 24805), (166, 24859), (172, 24868), (186, 24904), (201, 24949), (211, 24970), (216, 24976), (217, 24979), (270, 25111), (271, 25114), (301, 25237), (308, 25258), (372, 25525),

Gene: Flapper_49 Start: 36682, Stop: 37743, Start Num: 77

Candidate Starts for Flapper_49:

(26, 36406), (57, 36619), (Start: 77 @36682 has 3 MA's), (110, 36790), (133, 36868), (182, 36976), (213, 37060), (222, 37081), (224, 37087), (234, 37114), (286, 37342), (307, 37408), (372, 37672), (381, 37717),

Gene: Float294_47 Start: 36416, Stop: 37477, Start Num: 78

Candidate Starts for Float294_47:

(Start: 78 @36416 has 34 MA's), (134, 36602), (210, 36788), (213, 36791), (272, 37001), (360, 37340), (372, 37406),

Gene: Fortunato_30 Start: 32604, Stop: 33761, Start Num: 37

Candidate Starts for Fortunato_30:

(Start: 37 @32604 has 98 MA's), (58, 32697), (66, 32712), (69, 32727), (71, 32739), (79, 32757), (91, 32799), (121, 32898), (125, 32907), (129, 32925), (136, 32952), (147, 32967), (150, 32973), (152, 32979), (155, 32985), (164, 33012), (168, 33021), (187, 33054), (201, 33087), (236, 33177), (239, 33183), (263, 33249), (270, 33279), (271, 33282), (308, 33429), (343, 33582),

Gene: Foxboro_45 Start: 36480, Stop: 37538, Start Num: 78

Candidate Starts for Foxboro_45:

(1, 35040), (2, 35337), (3, 35568), (7, 35937), (33, 36315), (38, 36330), (44, 36348), (Start: 78 @36480 has 34 MA's), (199, 36825), (222, 36876), (240, 36924),

Gene: Frederick_30 Start: 32610, Stop: 33767, Start Num: 37

Candidate Starts for Frederick_30:

(Start: 37 @32610 has 98 MA's), (58, 32703), (66, 32718), (69, 32733), (71, 32745), (79, 32763), (91, 32805), (105, 32853), (121, 32904), (125, 32913), (129, 32931), (136, 32958), (147, 32973), (150, 32979), (152, 32985), (155, 32991), (164, 33018), (168, 33027), (187, 33060), (201, 33093), (227, 33153), (236, 33183), (239, 33189), (258, 33234), (271, 33288), (272, 33291), (308, 33435), (343, 33588),

Gene: Fulbright_21 Start: 20200, Stop: 21357, Start Num: 37

Candidate Starts for Fulbright_21:

(Start: 37 @20200 has 98 MA's), (54, 20281), (66, 20308), (Start: 70 @20329 has 1 MA's), (90, 20389), (94, 20413), (Start: 95 @20419 has 1 MA's), (103, 20437), (106, 20449), (Start: 111 @20461 has 3 MA's), (114, 20473), (126, 20509), (132, 20533), (136, 20548), (139, 20557), (150, 20581), (155, 20596), (158, 20611), (213, 20695), (214, 20698), (223, 20719), (231, 20740), (233, 20749), (236, 20761), (241, 20770), (308, 21031), (315, 21100), (381, 21334),

Gene: Fury_53 Start: 35397, Stop: 36479, Start Num: 78

Candidate Starts for Fury_53:

(Start: 78 @35397 has 34 MA's), (114, 35514), (193, 35742), (227, 35826), (230, 35832), (243, 35871), (245, 35886), (253, 35928), (293, 36093), (337, 36273), (372, 36411),

Gene: GRU1_34 Start: 28214, Stop: 29290, Start Num: 77

Candidate Starts for GRU1_34:

(33, 28052), (Start: 77 @28214 has 3 MA's), (110, 28322), (127, 28373), (133, 28400), (182, 28508), (213, 28592), (222, 28613), (224, 28619), (234, 28646), (286, 28874), (360, 29153), (381, 29264),

Gene: GTE5_36 Start: 29539, Stop: 30600, Start Num: 77

Candidate Starts for GTE5_36:

(57, 29476), (Start: 77 @29539 has 3 MA's), (110, 29647), (133, 29725), (182, 29833), (213, 29917), (222, 29938), (227, 29950), (234, 29971), (235, 29974), (372, 30529), (381, 30574),

Gene: GTE8_33 Start: 29229, Stop: 30287, Start Num: 77

Candidate Starts for GTE8_33:

(33, 29067), (Start: 77 @29229 has 3 MA's), (145, 29445), (223, 29628), (372, 30216), (381, 30261),

Gene: Gadget_34 Start: 32229, Stop: 33431, Start Num: 37

Candidate Starts for Gadget_34:

(Start: 37 @32229 has 98 MA's), (49, 32262), (84, 32406), (89, 32415), (91, 32424), (101, 32463), (105, 32472), (Start: 111 @32490 has 3 MA's), (116, 32508), (123, 32526), (125, 32532), (128, 32544), (132, 32562), (136, 32577), (150, 32610), (158, 32637), (177, 32682), (204, 32763), (218, 32790), (225, 32808), (232, 32826), (246, 32868), (276, 32997), (301, 33087), (318, 33189), (338, 33246), (341, 33255), (355, 33294), (367, 33366), (381, 33408),

Gene: Gail_32 Start: 24477, Stop: 25421, Start Num: 98

Candidate Starts for Gail_32:

(Start: 98 @24477 has 5 MA's), (135, 24582), (137, 24588), (141, 24600), (156, 24636), (185, 24711), (230, 24774), (231, 24777), (232, 24780), (271, 24915), (376, 25371),

Gene: Ganymede_29 Start: 23336, Stop: 24349, Start Num: 74

Candidate Starts for Ganymede_29:

(10, 22892), (60, 23291), (Start: 74 @23336 has 99 MA's), (Start: 111 @23447 has 3 MA's), (150, 23561), (194, 23678), (209, 23720), (217, 23732), (246, 23771), (250, 23786), (270, 23864), (288,

23948), (292, 23960), (298, 23972), (308, 24011), (331, 24125), (355, 24194),

Gene: Geraldini_28 Start: 23332, Stop: 24345, Start Num: 74

Candidate Starts for Geraldini_28:

(10, 22888), (60, 23287), (Start: 74 @23332 has 99 MA's), (Start: 111 @23443 has 3 MA's), (148, 23551), (150, 23557), (194, 23674), (209, 23716), (217, 23728), (250, 23782), (270, 23860), (288, 23944), (292, 23956), (298, 23968), (308, 24007), (331, 24121), (355, 24190),

Gene: Gervas_33 Start: 32200, Stop: 33402, Start Num: 37

Candidate Starts for Gervas_33:

(Start: 37 @32200 has 98 MA's), (49, 32233), (84, 32377), (89, 32386), (91, 32395), (101, 32434), (105, 32443), (Start: 111 @32461 has 3 MA's), (127, 32512), (129, 32521), (132, 32533), (133, 32539), (136, 32548), (155, 32593), (158, 32608), (177, 32653), (191, 32692), (200, 32722), (205, 32737), (213, 32749), (223, 32773), (237, 32818), (246, 32839), (252, 32863), (272, 32938), (276, 32968), (292, 33028), (298, 33040), (301, 33058), (318, 33160), (355, 33265), (357, 33271), (359, 33289), (380, 33376),

Gene: Gex_22 Start: 20219, Stop: 21433, Start Num: 65

Candidate Starts for Gex_22:

(18, 19889), (32, 20087), (Start: 63 @20216 has 6 MA's), (Start: 65 @20219 has 16 MA's), (142, 20480), (202, 20651), (255, 20801), (266, 20840), (287, 20942), (296, 20984), (370, 21356),

Gene: GinPorsche_29 Start: 31578, Stop: 32735, Start Num: 37

Candidate Starts for GinPorsche_29:

(Start: 37 @31578 has 98 MA's), (58, 31671), (66, 31686), (69, 31701), (71, 31713), (79, 31731), (105, 31821), (121, 31872), (125, 31881), (126, 31887), (129, 31899), (136, 31926), (147, 31941), (150, 31947), (152, 31953), (164, 31986), (168, 31995), (187, 32028), (201, 32061), (236, 32151), (239, 32157), (271, 32256), (272, 32259), (308, 32403), (343, 32556),

Gene: GlenHope_34 Start: 32212, Stop: 33414, Start Num: 37

Candidate Starts for GlenHope_34:

(Start: 37 @32212 has 98 MA's), (84, 32389), (89, 32398), (91, 32407), (101, 32446), (105, 32455), (Start: 111 @32473 has 3 MA's), (116, 32491), (123, 32509), (125, 32515), (128, 32527), (132, 32545), (136, 32560), (150, 32593), (158, 32620), (177, 32665), (204, 32746), (218, 32773), (225, 32791), (232, 32809), (246, 32851), (276, 32980), (301, 33070), (318, 33172), (341, 33238), (355, 33277), (367, 33349), (381, 33391),

Gene: Glubnar_34 Start: 32212, Stop: 33414, Start Num: 37

Candidate Starts for Glubnar_34:

(Start: 37 @32212 has 98 MA's), (49, 32245), (84, 32389), (89, 32398), (91, 32407), (101, 32446), (105, 32455), (Start: 111 @32473 has 3 MA's), (127, 32524), (129, 32533), (132, 32545), (133, 32551), (136, 32560), (155, 32605), (158, 32620), (177, 32665), (191, 32704), (200, 32734), (205, 32749), (213, 32761), (223, 32785), (239, 32833), (242, 32839), (244, 32845), (246, 32851), (252, 32875), (272, 32950), (276, 32980), (292, 33040), (298, 33052), (301, 33070), (317, 33169), (318, 33172), (355, 33277), (357, 33283), (359, 33301), (380, 33388),

Gene: GreaseLightnin_22 Start: 21355, Stop: 22509, Start Num: 37

Candidate Starts for GreaseLightnin_22:

(15, 21118), (20, 21160), (22, 21190), (24, 21220), (25, 21229), (27, 21280), (31, 21334), (Start: 37 @21355 has 98 MA's), (54, 21436), (Start: 70 @21484 has 1 MA's), (90, 21544), (92, 21553), (94, 21568), (103, 21592), (Start: 111 @21616 has 3 MA's), (114, 21628), (136, 21703), (139, 21712), (150, 21736), (158, 21766), (213, 21850), (214, 21853), (223, 21874), (270, 22033), (289, 22123), (292, 22132), (301, 22162), (308, 22183), (381, 22486),

Gene: GrootJr_46 Start: 35356, Stop: 36414, Start Num: 78

Candidate Starts for GrootJr_46:

(1, 33916), (2, 34213), (3, 34444), (7, 34813), (33, 35191), (38, 35206), (44, 35224), (Start: 78 @35356 has 34 MA's), (199, 35701), (222, 35752), (240, 35800),

Gene: Gspu1_26 Start: 21693, Stop: 22775, Start Num: 78

Candidate Starts for Gspu1_26:

(Start: 78 @21693 has 34 MA's), (129, 21855), (143, 21903), (150, 21915), (187, 22017), (207, 22077), (223, 22110), (230, 22125), (243, 22164), (260, 22248), (268, 22278), (271, 22290), (308, 22437), (334, 22563), (355, 22620), (379, 22743),

Gene: Guanica15_28 Start: 22542, Stop: 23603, Start Num: 74

Candidate Starts for Guanica15_28:

(Start: 74 @22542 has 99 MA's), (Start: 111 @22656 has 3 MA's), (150, 22770), (156, 22791), (189, 22878), (198, 22899), (199, 22905), (255, 23013), (270, 23073), (294, 23193), (295, 23199), (297, 23205), (311, 23295), (347, 23421), (351, 23436),

Gene: Halena_21 Start: 21699, Stop: 22871, Start Num: 41

Candidate Starts for Halena_21:

(Start: 39 @21696 has 7 MA's), (Start: 41 @21699 has 14 MA's), (Start: 70 @21825 has 1 MA's), (83, 21867), (87, 21879), (89, 21882), (Start: 95 @21915 has 1 MA's), (99, 21927), (116, 21975), (123, 21993), (132, 22029), (136, 22044), (156, 22095), (165, 22125), (184, 22167), (215, 22191), (230, 22227), (232, 22233), (241, 22260), (246, 22278), (272, 22371), (273, 22374), (290, 22458), (321, 22596), (330, 22614), (355, 22698),

Gene: Halfpint_32 Start: 32038, Stop: 33240, Start Num: 37

Candidate Starts for Halfpint_32:

(Start: 37 @32038 has 98 MA's), (84, 32215), (89, 32224), (91, 32233), (101, 32272), (105, 32281), (Start: 111 @32299 has 3 MA's), (116, 32317), (123, 32335), (125, 32341), (128, 32353), (132, 32371), (136, 32386), (158, 32446), (177, 32491), (204, 32572), (218, 32599), (225, 32617), (232, 32635), (246, 32677), (276, 32806), (301, 32896), (318, 32998), (338, 33055), (341, 33064), (355, 33103), (367, 33175), (381, 33217),

Gene: Hally898_29 Start: 31590, Stop: 32747, Start Num: 37

Candidate Starts for Hally898_29:

(Start: 37 @31590 has 98 MA's), (58, 31683), (66, 31698), (69, 31713), (71, 31725), (79, 31743), (105, 31833), (121, 31884), (125, 31893), (126, 31899), (129, 31911), (136, 31938), (147, 31953), (150, 31959), (152, 31965), (164, 31998), (168, 32007), (187, 32040), (201, 32073), (236, 32163), (239, 32169), (271, 32268), (272, 32271), (308, 32415), (343, 32568),

Gene: Hammy_27 Start: 23691, Stop: 24695, Start Num: 74

Candidate Starts for Hammy_27:

(Start: 74 @23691 has 99 MA's), (171, 23976), (194, 24033), (257, 24165), (264, 24192), (290, 24306), (327, 24459), (355, 24552), (356, 24555), (366, 24618), (372, 24630),

Gene: Hanako_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for Hanako_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (52, 19940), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (175, 20333), (177, 20336), (179, 20342), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Hangman_30 Start: 32602, Stop: 33759, Start Num: 37

Candidate Starts for Hangman_30:

(Start: 37 @32602 has 98 MA's), (58, 32695), (66, 32710), (69, 32725), (71, 32737), (79, 32755), (91, 32797), (121, 32896), (125, 32905), (129, 32923), (147, 32965), (150, 32971), (152, 32977), (155, 32983), (164, 33010), (168, 33019), (187, 33052), (201, 33085), (227, 33145), (236, 33175), (239, 33181), (248, 33202), (258, 33226), (271, 33280), (272, 33283), (308, 33427),

Gene: HarveySr_33 Start: 32202, Stop: 33404, Start Num: 37

Candidate Starts for HarveySr_33:

(Start: 37 @32202 has 98 MA's), (49, 32235), (84, 32379), (89, 32388), (91, 32397), (101, 32436), (105, 32445), (Start: 111 @32463 has 3 MA's), (116, 32481), (123, 32499), (125, 32505), (128, 32517), (132, 32535), (136, 32550), (150, 32583), (158, 32610), (177, 32655), (204, 32736), (218, 32763), (225, 32781), (232, 32799), (246, 32841), (276, 32970), (301, 33060), (318, 33162), (338, 33219), (341, 33228), (355, 33267), (367, 33339), (381, 33381),

Gene: Heath_29 Start: 32206, Stop: 33363, Start Num: 37

Candidate Starts for Heath_29:

(Start: 37 @32206 has 98 MA's), (58, 32299), (66, 32314), (69, 32329), (71, 32341), (79, 32359), (91, 32401), (121, 32500), (125, 32509), (129, 32527), (136, 32554), (147, 32569), (150, 32575), (152, 32581), (155, 32587), (164, 32614), (168, 32623), (187, 32656), (201, 32689), (208, 32707), (227, 32749), (236, 32779), (239, 32785), (248, 32806), (271, 32884), (272, 32887), (283, 32932), (308, 33031), (343, 33184),

Gene: Heathcliff_33 Start: 32184, Stop: 33386, Start Num: 37

Candidate Starts for Heathcliff_33:

(Start: 37 @32184 has 98 MA's), (49, 32217), (84, 32361), (89, 32370), (91, 32379), (101, 32418), (105, 32427), (Start: 111 @32445 has 3 MA's), (116, 32463), (123, 32481), (125, 32487), (128, 32499), (132, 32517), (136, 32532), (150, 32565), (158, 32592), (177, 32637), (204, 32718), (218, 32745), (225, 32763), (232, 32781), (246, 32823), (252, 32847), (272, 32922), (276, 32952), (292, 33012), (298, 33024), (301, 33042), (318, 33144), (355, 33249), (357, 33255), (359, 33273), (380, 33360),

Gene: HedwigODU_28 Start: 23325, Stop: 24338, Start Num: 74

Candidate Starts for HedwigODU_28:

(10, 22881), (23, 23028), (60, 23280), (Start: 74 @23325 has 99 MA's), (Start: 111 @23436 has 3 MA's), (150, 23550), (194, 23667), (209, 23709), (217, 23721), (250, 23775), (270, 23853), (292, 23949), (298, 23961), (304, 23991), (308, 24000), (331, 24114), (355, 24183),

Gene: HomeFry_50 Start: 34029, Stop: 35111, Start Num: 78

Candidate Starts for HomeFry_50:

(Start: 78 @34029 has 34 MA's), (114, 34146), (182, 34341), (255, 34566),

Gene: Homura_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Homura_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: HubbaBubba_42 Start: 31720, Stop: 32760, Start Num: 77

Candidate Starts for HubbaBubba_42:

(Start: 77 @31720 has 3 MA's), (117, 31852), (182, 32035), (250, 32242), (252, 32251), (270, 32320), (271, 32323), (288, 32407), (330, 32560), (354, 32644), (355, 32653), (356, 32656), (369, 32752),

Gene: Hurricane_28 Start: 23950, Stop: 24975, Start Num: 76

Candidate Starts for Hurricane_28:

(6, 23398), (8, 23464), (9, 23527), (12, 23560), (16, 23602), (28, 23761), (47, 23860), (56, 23917), (Start: 76 @23950 has 65 MA's), (117, 24073), (122, 24082), (129, 24109), (144, 24157), (150, 24169), (156, 24190), (176, 24241), (187, 24271), (259, 24424), (264, 24445), (278, 24517), (288, 24553), (293, 24568), (306, 24610), (308, 24616), (323, 24706), (349, 24805), (353, 24808), (370, 24907), (382, 24958),

Gene: Hydro_30 Start: 32619, Stop: 33776, Start Num: 37

Candidate Starts for Hydro_30:

(Start: 37 @32619 has 98 MA's), (58, 32712), (66, 32727), (69, 32742), (71, 32754), (79, 32772), (91, 32814), (121, 32913), (125, 32922), (129, 32940), (136, 32967), (147, 32982), (150, 32988), (152, 32994), (155, 33000), (164, 33027), (168, 33036), (187, 33069), (201, 33102), (227, 33162), (236, 33192), (239, 33198), (258, 33243), (271, 33297), (272, 33300), (308, 33444), (343, 33597),

Gene: Hyperbowlee_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Hyperbowlee_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: IdentityCrisis_21 Start: 19031, Stop: 20086, Start Num: 76

Candidate Starts for IdentityCrisis_21:

(Start: 76 @19031 has 65 MA's), (112, 19148), (170, 19322), (218, 19439), (221, 19445), (271, 19610), (292, 19703), (307, 19751), (310, 19787), (336, 19880),

Gene: Illumine_28 Start: 23339, Stop: 24352, Start Num: 74

Candidate Starts for Illumine_28:

(Start: 74 @23339 has 99 MA's), (Start: 111 @23450 has 3 MA's), (114, 23459), (150, 23564), (185, 23660), (194, 23681), (209, 23723), (217, 23735), (250, 23789), (270, 23867), (292, 23963), (298, 23975), (308, 24014), (331, 24128), (355, 24197), (374, 24293),

Gene: Inky_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Inky_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: JAMaL_30 Start: 32789, Stop: 33946, Start Num: 37

Candidate Starts for JAMaL_30:

(Start: 37 @32789 has 98 MA's), (58, 32882), (66, 32897), (69, 32912), (71, 32924), (79, 32942), (105, 33032), (121, 33083), (125, 33092), (126, 33098), (129, 33110), (136, 33137), (147, 33152), (150, 33158), (152, 33164), (164, 33197), (168, 33206), (187, 33239), (201, 33272), (236, 33362), (239, 33368), (271, 33467), (272, 33470), (308, 33614), (343, 33767),

Gene: JAWS_28 Start: 23310, Stop: 24323, Start Num: 74

Candidate Starts for JAWS_28:

(10, 22866), (60, 23265), (Start: 74 @23310 has 99 MA's), (Start: 111 @23421 has 3 MA's), (150, 23535), (194, 23652), (209, 23694), (217, 23706), (250, 23760), (270, 23838), (292, 23934), (304, 23976), (308, 23985), (331, 24099), (355, 24168),

Gene: JF1_29 Start: 24585, Stop: 25589, Start Num: 76

Candidate Starts for JF1_29:

(Start: 76 @24585 has 65 MA's), (Start: 95 @24654 has 1 MA's), (131, 24753), (148, 24798), (150, 24804), (166, 24858), (172, 24867), (186, 24903), (201, 24948), (211, 24969), (216, 24975), (217, 24978), (270, 25110), (271, 25113), (301, 25236), (308, 25257), (372, 25524),

Gene: Jackstina_30 Start: 32142, Stop: 33344, Start Num: 37

Candidate Starts for Jackstina_30:

(Start: 37 @32142 has 98 MA's), (49, 32175), (84, 32319), (89, 32328), (91, 32337), (101, 32376), (105, 32385), (Start: 111 @32403 has 3 MA's), (116, 32421), (123, 32439), (125, 32445), (128, 32457), (132, 32475), (136, 32490), (150, 32523), (158, 32550), (177, 32595), (204, 32676), (218, 32703), (225, 32721), (232, 32739), (246, 32781), (276, 32910), (301, 33000), (318, 33102), (338, 33159), (341, 33168), (355, 33207), (367, 33279), (381, 33321),

Gene: JaguarMi_30 Start: 32084, Stop: 33241, Start Num: 37

Candidate Starts for JaguarMi_30:

(Start: 37 @32084 has 98 MA's), (58, 32177), (66, 32192), (69, 32207), (71, 32219), (79, 32237), (84, 32261), (91, 32279), (93, 32294), (121, 32378), (125, 32387), (129, 32405), (147, 32447), (150, 32453), (152, 32459), (155, 32465), (164, 32492), (168, 32501), (187, 32534), (201, 32567), (227, 32627), (236, 32657), (239, 32663), (271, 32762), (272, 32765), (299, 32876), (308, 32909), (343, 33062), (353, 33086), (355, 33098),

Gene: Jamie19_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for Jamie19_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Jarvi_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Jarvi_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Jayhawk_28 Start: 23323, Stop: 24336, Start Num: 74

Candidate Starts for Jayhawk_28:

(10, 22879), (23, 23026), (60, 23278), (Start: 74 @23323 has 99 MA's), (Start: 111 @23434 has 3 MA's), (150, 23548), (194, 23665), (209, 23707), (217, 23719), (250, 23773), (270, 23851), (292, 23947), (298, 23959), (304, 23989), (308, 23998), (331, 24112), (355, 24181),

Gene: Jeckyll_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Jeckyll_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Jennelsea_19 Start: 20217, Stop: 21371, Start Num: 37

Candidate Starts for Jennelsea_19:

(Start: 34 @20214 has 3 MA's), (Start: 37 @20217 has 98 MA's), (54, 20298), (Start: 70 @20346 has 1 MA's), (90, 20406), (92, 20415), (94, 20430), (103, 20454), (Start: 111 @20478 has 3 MA's), (114, 20490), (136, 20565), (139, 20574), (150, 20598), (158, 20628), (213, 20712), (214, 20715), (223, 20736), (270, 20895), (289, 20985), (292, 20994), (301, 21024), (308, 21045), (381, 21348),

Gene: Jifall16_43 Start: 35628, Stop: 36686, Start Num: 78

Candidate Starts for Jifall16_43:

(1, 34188), (2, 34485), (3, 34716), (7, 35085), (33, 35463), (38, 35478), (44, 35496), (Start: 78 @35628 has 34 MA's), (199, 35973), (222, 36024), (240, 36072),

Gene: Jobypre_22 Start: 22247, Stop: 23464, Start Num: 40

Candidate Starts for Jobypre_22:

(Start: 40 @22247 has 19 MA's), (64, 22349), (68, 22361), (71, 22379), (Start: 76 @22388 has 65 MA's), (87, 22427), (Start: 95 @22463 has 1 MA's), (101, 22478), (104, 22484), (113, 22514), (114, 22517), (126, 22553), (129, 22565), (147, 22616), (149, 22619), (169, 22679), (181, 22706), (186, 22721), (188, 22727), (192, 22739), (216, 22799), (225, 22823), (246, 22883), (271, 22979), (276, 23012), (298, 23084), (303, 23108), (359, 23336), (363, 23348),

Gene: JoeDirt_21 Start: 21667, Stop: 22842, Start Num: 39

Candidate Starts for JoeDirt_21:

(Start: 39 @21667 has 7 MA's), (Start: 41 @21670 has 14 MA's), (Start: 70 @21796 has 1 MA's), (83, 21838), (87, 21850), (89, 21853), (Start: 95 @21886 has 1 MA's), (99, 21898), (116, 21946), (123, 21964), (132, 22000), (136, 22015), (156, 22066), (165, 22096), (184, 22138), (215, 22162), (230, 22198), (232, 22204), (241, 22231), (246, 22249), (272, 22342), (273, 22345), (290, 22429), (321, 22567), (330, 22585), (355, 22669),

Gene: Journey_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Journey_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Joy99_28 Start: 23285, Stop: 24298, Start Num: 74

Candidate Starts for Joy99_28:

(10, 22841), (60, 23240), (Start: 74 @23285 has 99 MA's), (150, 23510), (194, 23627), (209, 23669), (217, 23681), (250, 23735), (270, 23813), (292, 23909), (304, 23951), (308, 23960), (331, 24074), (355, 24143),

Gene: JoyceMaria_30 Start: 32605, Stop: 33762, Start Num: 37

Candidate Starts for JoyceMaria_30:

(Start: 37 @32605 has 98 MA's), (58, 32698), (66, 32713), (69, 32728), (71, 32740), (79, 32758), (91, 32800), (121, 32899), (125, 32908), (129, 32926), (147, 32968), (150, 32974), (152, 32980), (155, 32986), (164, 33013), (168, 33022), (187, 33055), (201, 33088), (227, 33148), (236, 33178), (239, 33184), (248, 33205), (258, 33229), (271, 33283), (272, 33286), (308, 33430),

Gene: Jubie_22 Start: 22248, Stop: 23465, Start Num: 40

Candidate Starts for Jubie_22:

(Start: 40 @22248 has 19 MA's), (64, 22350), (68, 22362), (71, 22380), (Start: 76 @22389 has 65 MA's), (87, 22428), (Start: 95 @22464 has 1 MA's), (101, 22479), (104, 22485), (113, 22515), (114, 22518), (126, 22554), (129, 22566), (147, 22617), (149, 22620), (169, 22680), (181, 22707), (186, 22722), (188, 22728), (192, 22740), (216, 22800), (225, 22824), (246, 22884), (271, 22980), (276, 23013), (298, 23085), (303, 23109), (359, 23337), (363, 23349),

Gene: Kabluna_48 Start: 35054, Stop: 36109, Start Num: 78

Candidate Starts for Kabluna_48:

(57, 34991), (Start: 78 @35054 has 34 MA's), (145, 35267), (223, 35450), (298, 35738), (381, 36083),

Gene: Kamiyu_33 Start: 32188, Stop: 33390, Start Num: 37

Candidate Starts for Kamiyu_33:

(Start: 37 @32188 has 98 MA's), (49, 32221), (84, 32365), (89, 32374), (91, 32383), (101, 32422), (105, 32431), (Start: 111 @32449 has 3 MA's), (116, 32467), (123, 32485), (125, 32491), (128, 32503), (132, 32521), (136, 32536), (150, 32569), (158, 32596), (177, 32641), (204, 32722), (218, 32749), (225, 32767), (232, 32785), (246, 32827), (276, 32956), (280, 32965), (301, 33046), (318, 33148), (338, 33205), (341, 33214), (355, 33253), (367, 33325), (381, 33367),

Gene: Keshu_28 Start: 23942, Stop: 24964, Start Num: 76

Candidate Starts for Keshu_28:

(28, 23753), (47, 23852), (56, 23909), (Start: 76 @23942 has 65 MA's), (127, 24092), (144, 24149), (176, 24233), (187, 24263), (264, 24434), (271, 24464), (306, 24599), (321, 24692), (323, 24695), (330, 24716), (349, 24794), (365, 24863), (368, 24893),

Gene: Keziacharles14_32 Start: 24883, Stop: 26085, Start Num: 40

Candidate Starts for Keziacharles14_32:

(Start: 40 @24883 has 19 MA's), (82, 25045), (89, 25066), (109, 25135), (116, 25159), (133, 25219), (139, 25237), (147, 25252), (153, 25267), (172, 25321), (223, 25453), (229, 25468), (241, 25504), (270, 25612), (271, 25615), (274, 25642), (276, 25648), (308, 25759),

Gene: KiSi_27 Start: 22512, Stop: 23480, Start Num: 75

Candidate Starts for KiSi_27:

(Start: 75 @22512 has 4 MA's), (129, 22674), (130, 22680), (136, 22701), (138, 22707), (155, 22749), (170, 22794), (187, 22836), (194, 22851), (250, 22959), (272, 23043), (348, 23319),

Gene: KidneyBean_44 Start: 35752, Stop: 36810, Start Num: 78

Candidate Starts for KidneyBean_44:

(1, 34312), (2, 34609), (3, 34840), (7, 35209), (33, 35587), (38, 35602), (44, 35620), (Start: 78 @35752 has 34 MA's), (199, 36097), (222, 36148), (240, 36196),

Gene: KingCyrus_34 Start: 25662, Stop: 26561, Start Num: 98

Candidate Starts for KingCyrus_34:

(Start: 98 @25662 has 5 MA's), (137, 25773), (177, 25875), (185, 25896), (230, 25959), (270, 26091), (343, 26373),

Gene: Kingsolomon_22 Start: 22247, Stop: 23464, Start Num: 40

Candidate Starts for Kingsolomon_22:

(Start: 40 @22247 has 19 MA's), (64, 22349), (68, 22361), (71, 22379), (Start: 76 @22388 has 65 MA's), (87, 22427), (Start: 95 @22463 has 1 MA's), (101, 22478), (104, 22484), (113, 22514), (114, 22517), (126, 22553), (129, 22565), (147, 22616), (149, 22619), (169, 22679), (181, 22706), (186, 22721), (188, 22727), (192, 22739), (216, 22799), (225, 22823), (246, 22883), (271, 22979), (276, 23012), (298, 23084), (303, 23108), (359, 23336), (363, 23348),

Gene: KirDoubleO7_20 Start: 22241, Stop: 23458, Start Num: 40

Candidate Starts for KirDoubleO7_20:

(Start: 40 @22241 has 19 MA's), (48, 22268), (64, 22343), (68, 22355), (71, 22373), (87, 22421), (Start: 95 @22457 has 1 MA's), (101, 22472), (104, 22478), (113, 22508), (129, 22559), (139, 22595), (147, 22610), (149, 22613), (188, 22721), (192, 22733), (216, 22793), (225, 22817), (246, 22877), (276, 23006), (277, 23012), (298, 23078),

Gene: Koella_19 Start: 20229, Stop: 21383, Start Num: 37

Candidate Starts for Koella_19:

(Start: 34 @20226 has 3 MA's), (Start: 37 @20229 has 98 MA's), (54, 20310), (Start: 70 @20358 has 1 MA's), (90, 20418), (92, 20427), (94, 20442), (103, 20466), (Start: 111 @20490 has 3 MA's), (114, 20502), (136, 20577), (139, 20586), (150, 20610), (158, 20640), (213, 20724), (214, 20727), (223,

20748), (270, 20907), (289, 20997), (292, 21006), (301, 21036), (308, 21057), (381, 21360),

Gene: Kraw_29 Start: 24509, Stop: 25513, Start Num: 76

Candidate Starts for Kraw_29:

(Start: 76 @24509 has 65 MA's), (Start: 95 @24578 has 1 MA's), (131, 24677), (148, 24722), (150, 24728), (166, 24782), (172, 24791), (186, 24827), (201, 24872), (211, 24893), (216, 24899), (217, 24902), (270, 25034), (271, 25037), (301, 25160), (308, 25181), (372, 25448),

Gene: Kronus_32 Start: 32802, Stop: 34004, Start Num: 37

Candidate Starts for Kronus_32:

(Start: 37 @32802 has 98 MA's), (49, 32835), (84, 32979), (89, 32988), (91, 32997), (101, 33036), (105, 33045), (Start: 111 @33063 has 3 MA's), (116, 33081), (123, 33099), (125, 33105), (128, 33117), (132, 33135), (136, 33150), (150, 33183), (158, 33210), (177, 33255), (204, 33336), (218, 33363), (225, 33381), (232, 33399), (246, 33441), (252, 33465), (272, 33540), (276, 33570), (292, 33630), (298, 33642), (301, 33660), (317, 33759), (318, 33762), (355, 33867), (357, 33873), (359, 33891), (380, 33978),

Gene: Krueger_28 Start: 22638, Stop: 23633, Start Num: 76

Candidate Starts for Krueger_28:

(47, 22548), (Start: 76 @22638 has 65 MA's), (109, 22737), (Start: 111 @22743 has 3 MA's), (160, 22893), (194, 22974), (201, 22998), (270, 23160), (271, 23163), (289, 23247), (303, 23292), (373, 23571), (378, 23592), (381, 23610),

Gene: Krypton555_22 Start: 22170, Stop: 23369, Start Num: 40

Candidate Starts for Krypton555_22:

(Start: 40 @22170 has 19 MA's), (64, 22272), (68, 22284), (71, 22302), (87, 22350), (97, 22395), (101, 22401), (113, 22437), (126, 22476), (128, 22482), (129, 22488), (141, 22530), (169, 22602), (188, 22650), (192, 22662), (195, 22668), (246, 22806), (259, 22851), (270, 22899), (276, 22935), (290, 22989), (298, 23007), (302, 23028), (335, 23178), (345, 23199), (371, 23307),

Gene: Kurt_44 Start: 35989, Stop: 37047, Start Num: 78

Candidate Starts for Kurt_44:

(1, 34549), (2, 34846), (3, 35077), (7, 35446), (33, 35824), (38, 35839), (44, 35857), (Start: 78 @35989 has 34 MA's), (199, 36334), (222, 36385), (240, 36433),

Gene: Lambano_29 Start: 31590, Stop: 32747, Start Num: 37

Candidate Starts for Lambano_29:

(Start: 37 @31590 has 98 MA's), (58, 31683), (66, 31698), (69, 31713), (71, 31725), (79, 31743), (105, 31833), (121, 31884), (125, 31893), (126, 31899), (129, 31911), (136, 31938), (147, 31953), (150, 31959), (152, 31965), (164, 31998), (168, 32007), (187, 32040), (201, 32073), (236, 32163), (239, 32169), (271, 32268), (272, 32271), (308, 32415), (343, 32568),

Gene: LastHope_28 Start: 22491, Stop: 23498, Start Num: 76

Candidate Starts for LastHope_28:

(Start: 76 @22491 has 65 MA's), (150, 22710), (156, 22731), (178, 22785), (194, 22827), (219, 22887), (250, 22935), (263, 22983), (270, 23013), (292, 23109), (298, 23121), (308, 23160), (353, 23331), (355, 23343),

Gene: LastJedi_19 Start: 20260, Stop: 21414, Start Num: 37

Candidate Starts for LastJedi_19:

(Start: 34 @20257 has 3 MA's), (Start: 37 @20260 has 98 MA's), (54, 20341), (Start: 70 @20389 has 1 MA's), (90, 20449), (92, 20458), (94, 20473), (103, 20497), (Start: 111 @20521 has 3 MA's), (114, 20533), (136, 20608), (139, 20617), (150, 20641), (158, 20671), (213, 20755), (214, 20758), (223,

20779), (270, 20938), (289, 21028), (292, 21037), (301, 21067), (308, 21088), (381, 21391),

Gene: LaterM_28 Start: 23256, Stop: 24269, Start Num: 74

Candidate Starts for LaterM_28:

(Start: 74 @23256 has 99 MA's), (Start: 111 @23367 has 3 MA's), (150, 23481), (194, 23598), (209, 23640), (217, 23652), (250, 23706), (270, 23784), (292, 23880), (298, 23892), (308, 23931), (320, 24012), (331, 24045), (355, 24114), (374, 24210),

Gene: Lavahound_26 Start: 23365, Stop: 24360, Start Num: 74

Candidate Starts for Lavahound_26:

(62, 23329), (Start: 74 @23365 has 99 MA's), (104, 23455), (Start: 111 @23476 has 3 MA's), (148, 23584), (150, 23590), (156, 23611), (162, 23632), (257, 23839), (270, 23893), (271, 23896), (289, 23980), (290, 23983), (308, 24040), (332, 24148),

Gene: LeBron_21 Start: 21711, Stop: 22886, Start Num: 39

Candidate Starts for LeBron_21:

(Start: 39 @21711 has 7 MA's), (Start: 41 @21714 has 14 MA's), (Start: 70 @21840 has 1 MA's), (83, 21882), (87, 21894), (89, 21897), (Start: 95 @21930 has 1 MA's), (99, 21942), (116, 21990), (123, 22008), (132, 22044), (136, 22059), (156, 22110), (165, 22140), (184, 22182), (215, 22206), (230, 22242), (232, 22248), (241, 22275), (246, 22293), (272, 22386), (273, 22389), (290, 22473), (321, 22611), (330, 22629), (355, 22713),

Gene: LeMond_27 Start: 22583, Stop: 23551, Start Num: 75

Candidate Starts for LeMond_27:

(Start: 75 @22583 has 4 MA's), (122, 22718), (129, 22745), (130, 22751), (136, 22772), (138, 22778), (155, 22820), (170, 22865), (187, 22907), (194, 22922), (250, 23030), (272, 23114), (348, 23390),

Gene: Lea83_28 Start: 23930, Stop: 24949, Start Num: 76

Candidate Starts for Lea83_28:

(13, 23549), (14, 23561), (18, 23597), (21, 23621), (28, 23741), (47, 23840), (56, 23897), (Start: 76 @23930 has 65 MA's), (86, 23963), (122, 24062), (124, 24068), (127, 24080), (144, 24137), (148, 24143), (166, 24203), (194, 24266), (197, 24275), (212, 24311), (222, 24332), (227, 24344), (252, 24383), (270, 24452), (293, 24551), (308, 24599), (312, 24635), (329, 24698), (339, 24740), (355, 24788), (364, 24830), (381, 24926),

Gene: Lebo14_29 Start: 24599, Stop: 25603, Start Num: 76

Candidate Starts for Lebo14_29:

(Start: 76 @24599 has 65 MA's), (131, 24767), (134, 24779), (148, 24812), (150, 24818), (166, 24872), (172, 24881), (201, 24962), (211, 24983), (216, 24989), (217, 24992), (270, 25124), (271, 25127), (301, 25250),

Gene: LestyG_33 Start: 32223, Stop: 33425, Start Num: 37

Candidate Starts for LestyG_33:

(Start: 37 @32223 has 98 MA's), (49, 32256), (84, 32400), (89, 32409), (91, 32418), (101, 32457), (105, 32466), (Start: 111 @32484 has 3 MA's), (116, 32502), (123, 32520), (125, 32526), (128, 32538), (132, 32556), (136, 32571), (150, 32604), (158, 32631), (177, 32676), (204, 32757), (218, 32784), (225, 32802), (232, 32820), (246, 32862), (252, 32886), (272, 32961), (276, 32991), (292, 33051), (298, 33063), (301, 33081), (318, 33183), (355, 33288), (357, 33294), (359, 33312), (380, 33399),

Gene: LilPharaoh_24 Start: 22900, Stop: 23907, Start Num: 76

Candidate Starts for LilPharaoh_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250,

23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: LilSpotty_25 Start: 21191, Stop: 22405, Start Num: 65

Candidate Starts for LilSpotty_25:

(18, 20861), (32, 21059), (Start: 63 @21188 has 6 MA's), (Start: 65 @21191 has 16 MA's), (142, 21452), (202, 21623), (255, 21773), (266, 21812), (287, 21914), (296, 21956), (370, 22328),

Gene: LindNT_28 Start: 23290, Stop: 24303, Start Num: 74

Candidate Starts for LindNT_28:

(60, 23245), (Start: 74 @23290 has 99 MA's), (Start: 111 @23401 has 3 MA's), (150, 23515), (194, 23632), (209, 23674), (217, 23686), (250, 23740), (270, 23818), (288, 23902), (292, 23914), (298, 23926), (308, 23965), (374, 24244),

Gene: LittleDigger_29 Start: 31609, Stop: 32769, Start Num: 37

Candidate Starts for LittleDigger_29:

(Start: 37 @31609 has 98 MA's), (58, 31702), (66, 31717), (69, 31732), (71, 31744), (79, 31762), (89, 31795), (97, 31837), (121, 31903), (125, 31912), (129, 31930), (136, 31957), (150, 31978), (152, 31984), (153, 31987), (158, 32005), (168, 32029), (187, 32062), (205, 32107), (216, 32125), (227, 32155), (236, 32185), (239, 32191), (263, 32257), (271, 32290), (308, 32437), (343, 32590),

Gene: LiyuLake_22 Start: 22229, Stop: 23428, Start Num: 40

Candidate Starts for LiyuLake_22:

(Start: 40 @22229 has 19 MA's), (64, 22331), (71, 22361), (Start: 76 @22370 has 65 MA's), (87, 22409), (91, 22421), (101, 22460), (113, 22496), (116, 22505), (128, 22541), (141, 22589), (192, 22721), (195, 22727), (222, 22796), (236, 22841), (246, 22865), (270, 22958), (276, 22994), (290, 23048), (298, 23066), (345, 23258), (371, 23366),

Gene: Llorens_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Llorens_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Lolalove_30 Start: 32616, Stop: 33773, Start Num: 37

Candidate Starts for Lolalove_30:

(Start: 37 @32616 has 98 MA's), (58, 32709), (66, 32724), (69, 32739), (71, 32751), (79, 32769), (121, 32910), (125, 32919), (129, 32937), (136, 32964), (147, 32979), (150, 32985), (152, 32991), (155, 32997), (164, 33024), (168, 33033), (187, 33066), (201, 33099), (225, 33153), (227, 33159), (236, 33189), (239, 33195), (248, 33216), (258, 33240), (271, 33294), (272, 33297), (308, 33441), (343, 33594),

Gene: Lollipop1437_50 Start: 36962, Stop: 38023, Start Num: 78

Candidate Starts for Lollipop1437_50:

(Start: 78 @36962 has 34 MA's), (134, 37148), (210, 37334), (213, 37337), (272, 37547),

Gene: Lolly9_22 Start: 22045, Stop: 23244, Start Num: 40

Candidate Starts for Lolly9_22:

(Start: 40 @22045 has 19 MA's), (48, 22072), (68, 22159), (71, 22177), (Start: 76 @22186 has 65 MA's), (87, 22225), (101, 22276), (103, 22279), (116, 22321), (126, 22351), (128, 22357), (129, 22363), (141, 22405), (188, 22525), (192, 22537), (195, 22543), (246, 22681), (270, 22774), (276, 22810), (290, 22864), (298, 22882), (345, 23074), (371, 23182),

Gene: Luchador_34 Start: 25731, Stop: 26627, Start Num: 98

Candidate Starts for Luchador_34:

(Start: 98 @25731 has 5 MA's), (161, 25905), (177, 25941), (185, 25962), (226, 26016), (230, 26025), (270, 26157), (358, 26493), (365, 26523),

Gene: Lumos_22 Start: 22244, Stop: 23461, Start Num: 40

Candidate Starts for Lumos_22:

(Start: 40 @22244 has 19 MA's), (64, 22346), (68, 22358), (71, 22376), (Start: 76 @22385 has 65 MA's), (87, 22424), (Start: 95 @22460 has 1 MA's), (101, 22475), (104, 22481), (113, 22511), (114, 22514), (126, 22550), (129, 22562), (147, 22613), (149, 22616), (169, 22676), (181, 22703), (186, 22718), (188, 22724), (192, 22736), (216, 22796), (225, 22820), (246, 22880), (271, 22976), (276, 23009), (298, 23081), (303, 23105), (359, 23333), (363, 23345),

Gene: Lunahalos_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Lunahalos_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: MAckerman_21 Start: 21688, Stop: 22860, Start Num: 41

Candidate Starts for MAckerman_21:

(Start: 39 @21685 has 7 MA's), (Start: 41 @21688 has 14 MA's), (Start: 70 @21814 has 1 MA's), (83, 21856), (87, 21868), (89, 21871), (Start: 95 @21904 has 1 MA's), (99, 21916), (116, 21964), (123, 21982), (132, 22018), (136, 22033), (156, 22084), (165, 22114), (184, 22156), (215, 22180), (230, 22216), (232, 22222), (241, 22249), (246, 22267), (272, 22360), (273, 22363), (290, 22447), (321, 22585), (330, 22603), (355, 22687),

Gene: MacKat_28 Start: 23333, Stop: 24346, Start Num: 74

Candidate Starts for MacKat_28:

(10, 22889), (60, 23288), (Start: 74 @23333 has 99 MA's), (Start: 111 @23444 has 3 MA's), (150, 23558), (194, 23675), (209, 23717), (217, 23729), (250, 23783), (270, 23861), (288, 23945), (292, 23957), (298, 23969), (304, 23999), (308, 24008), (331, 24122), (355, 24191),

Gene: MacnCheese_29 Start: 24319, Stop: 25308, Start Num: 76

Candidate Starts for MacnCheese_29:

(47, 24199), (56, 24256), (Start: 76 @24319 has 65 MA's), (86, 24352), (122, 24448), (124, 24454), (146, 24526), (201, 24676), (212, 24697), (224, 24724), (271, 24841), (288, 24919), (292, 24931), (293, 24934), (366, 25231),

Gene: Magpie_29 Start: 32448, Stop: 33605, Start Num: 37

Candidate Starts for Magpie_29:

(Start: 37 @32448 has 98 MA's), (58, 32541), (66, 32556), (69, 32571), (71, 32583), (79, 32601), (105, 32691), (121, 32742), (125, 32751), (126, 32757), (129, 32769), (136, 32796), (147, 32811), (150, 32817), (152, 32823), (164, 32856), (168, 32865), (187, 32898), (201, 32931), (236, 33021), (239, 33027), (271, 33126), (272, 33129), (308, 33273), (343, 33426),

Gene: Magsby_22 Start: 20220, Stop: 21434, Start Num: 65

Candidate Starts for Magsby_22:

(18, 19890), (32, 20088), (Start: 63 @20217 has 6 MA's), (Start: 65 @20220 has 16 MA's), (142, 20481), (202, 20652), (255, 20802), (266, 20841), (287, 20943), (296, 20985), (370, 21357),

Gene: Malthus_30 Start: 24509, Stop: 25513, Start Num: 76

Candidate Starts for Malthus_30:

(Start: 76 @24509 has 65 MA's), (Start: 95 @24578 has 1 MA's), (131, 24677), (148, 24722), (150, 24728), (166, 24782), (172, 24791), (186, 24827), (201, 24872), (211, 24893), (216, 24899), (217, 24902), (270, 25034), (271, 25037), (301, 25160), (308, 25181), (353, 25352), (372, 25448),

Gene: Marcoliusprime_25 Start: 21282, Stop: 22277, Start Num: 76

Candidate Starts for Marcoliusprime_25:

(28, 21099), (47, 21198), (Start: 76 @21282 has 65 MA's), (99, 21363), (109, 21387), (129, 21447), (148, 21501), (150, 21507), (187, 21609), (188, 21612), (206, 21660), (209, 21666), (230, 21708), (250, 21732), (272, 21816), (290, 21900), (308, 21957), (379, 22254),

Gene: MarkPhew_28 Start: 22462, Stop: 23448, Start Num: 76

Candidate Starts for MarkPhew_28:

(Start: 76 @22462 has 65 MA's), (110, 22567), (130, 22630), (136, 22651), (138, 22657), (144, 22672), (155, 22699), (178, 22759), (187, 22786), (233, 22891), (271, 22990), (289, 23074), (301, 23113), (342, 23263), (360, 23317), (364, 23332),

Gene: Marley1013_33 Start: 33001, Stop: 34203, Start Num: 37

Candidate Starts for Marley1013_33:

(Start: 37 @33001 has 98 MA's), (49, 33034), (84, 33178), (89, 33187), (91, 33196), (101, 33235), (105, 33244), (Start: 111 @33262 has 3 MA's), (116, 33280), (123, 33298), (125, 33304), (128, 33316), (132, 33334), (136, 33349), (150, 33382), (158, 33409), (177, 33454), (204, 33535), (218, 33562), (225, 33580), (232, 33598), (246, 33640), (252, 33664), (272, 33739), (276, 33769), (292, 33829), (298, 33841), (301, 33859), (318, 33961), (355, 34066), (357, 34072), (359, 34090), (380, 34177),

Gene: Marlia_33 Start: 32203, Stop: 33405, Start Num: 37

Candidate Starts for Marlia_33:

(Start: 37 @32203 has 98 MA's), (49, 32236), (84, 32380), (89, 32389), (91, 32398), (101, 32437), (105, 32446), (Start: 111 @32464 has 3 MA's), (116, 32482), (123, 32500), (125, 32506), (128, 32518), (132, 32536), (136, 32551), (150, 32584), (158, 32611), (177, 32656), (204, 32737), (218, 32764), (225, 32782), (232, 32800), (246, 32842), (276, 32971), (301, 33061), (318, 33163), (338, 33220), (341, 33229), (355, 33268), (367, 33340), (381, 33382),

Gene: Marshawn_29 Start: 23145, Stop: 24104, Start Num: 76

Candidate Starts for Marshawn_29:

(Start: 76 @23145 has 65 MA's), (85, 23175), (128, 23301), (131, 23316), (144, 23355), (155, 23382), (189, 23475), (194, 23484), (209, 23526), (250, 23592), (270, 23670), (271, 23673), (293, 23766), (322, 23874), (333, 23910),

Gene: McMater_28 Start: 22728, Stop: 23693, Start Num: 74

Candidate Starts for McMater_28:

(Start: 74 @22728 has 99 MA's), (Start: 78 @22734 has 34 MA's), (127, 22887), (131, 22905), (136, 22923), (150, 22956), (162, 22998), (187, 23058), (194, 23073), (270, 23259), (271, 23262), (286, 23334), (308, 23403), (316, 23451), (321, 23466), (333, 23499), (349, 23538), (375, 23637),

Gene: Mdavu_24 Start: 22888, Stop: 23895, Start Num: 76

Candidate Starts for Mdavu_24:

(59, 22837), (Start: 63 @22849 has 6 MA's), (Start: 76 @22888 has 65 MA's), (94, 22948), (122, 23020), (136, 23074), (144, 23095), (194, 23224), (211, 23269), (214, 23272), (249, 23329), (250, 23332), (262, 23377), (271, 23413), (292, 23509), (298, 23521), (319, 23641), (361, 23773),

Gene: MeaningOfLife_28 Start: 23292, Stop: 24305, Start Num: 74

Candidate Starts for MeaningOfLife_28:

(10, 22848), (60, 23247), (Start: 74 @23292 has 99 MA's), (Start: 111 @23403 has 3 MA's), (148, 23511), (150, 23517), (194, 23634), (209, 23676), (217, 23688), (250, 23742), (270, 23820), (288, 23904), (292, 23916), (298, 23928), (308, 23967), (331, 24081), (355, 24150),

Gene: Megsy_28 Start: 23293, Stop: 24306, Start Num: 74

Candidate Starts for Megsy_28:

(10, 22849), (60, 23248), (Start: 74 @23293 has 99 MA's), (Start: 111 @23404 has 3 MA's), (150, 23518), (194, 23635), (209, 23677), (217, 23689), (250, 23743), (270, 23821), (288, 23905), (292, 23917), (298, 23929), (308, 23968), (374, 24247),

Gene: Melville_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Melville_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: MerCougar_46 Start: 36238, Stop: 37293, Start Num: 78

Candidate Starts for MerCougar_46:

(57, 36175), (Start: 78 @36238 has 34 MA's), (145, 36451), (213, 36610), (223, 36634), (298, 36922), (372, 37222), (381, 37267),

Gene: MilanaBonita_20 Start: 20281, Stop: 21492, Start Num: 37

Candidate Starts for MilanaBonita_20:

(Start: 37 @20281 has 98 MA's), (45, 20305), (54, 20362), (Start: 70 @20410 has 1 MA's), (90, 20470), (92, 20479), (94, 20494), (103, 20518), (Start: 111 @20542 has 3 MA's), (114, 20554), (126, 20590), (136, 20629), (139, 20638), (150, 20662), (158, 20692), (190, 20776), (191, 20779), (198, 20800), (213, 20836), (214, 20839), (223, 20860), (236, 20902), (270, 21019), (276, 21055), (277, 21061), (308, 21166), (318, 21247),

Gene: Milly_25 Start: 21282, Stop: 22277, Start Num: 76

Candidate Starts for Milly_25:

(28, 21099), (47, 21198), (Start: 76 @21282 has 65 MA's), (99, 21363), (109, 21387), (129, 21447), (148, 21501), (150, 21507), (187, 21609), (188, 21612), (206, 21660), (209, 21666), (230, 21708), (250, 21732), (272, 21816), (290, 21900), (308, 21957), (379, 22254),

Gene: MiniLon_22 Start: 22045, Stop: 23244, Start Num: 40

Candidate Starts for MiniLon_22:

(Start: 40 @22045 has 19 MA's), (48, 22072), (68, 22159), (71, 22177), (Start: 76 @22186 has 65 MA's), (87, 22225), (101, 22276), (103, 22279), (116, 22321), (126, 22351), (128, 22357), (129, 22363), (141, 22405), (188, 22525), (192, 22537), (195, 22543), (246, 22681), (270, 22774), (276, 22810), (290, 22864), (298, 22882), (345, 23074), (371, 23182),

Gene: MiniMac_22 Start: 22046, Stop: 23245, Start Num: 40

Candidate Starts for MiniMac_22:

(Start: 40 @22046 has 19 MA's), (48, 22073), (68, 22160), (71, 22178), (87, 22226), (101, 22277), (103, 22280), (116, 22322), (126, 22352), (128, 22358), (129, 22364), (141, 22406), (188, 22526), (192, 22538), (195, 22544), (246, 22682), (270, 22775), (276, 22811), (290, 22865), (298, 22883), (345, 23075), (371, 23183),

Gene: MissDaisy_29 Start: 24351, Stop: 25355, Start Num: 76

Candidate Starts for MissDaisy_29:

(Start: 76 @24351 has 65 MA's), (131, 24519), (148, 24564), (150, 24570), (166, 24624), (201, 24714), (211, 24735), (217, 24744), (270, 24876), (271, 24879), (301, 25002), (308, 25023), (372, 25290),

Gene: Mithril_30 Start: 32620, Stop: 33777, Start Num: 37

Candidate Starts for Mithril_30:

(Start: 37 @32620 has 98 MA's), (58, 32713), (66, 32728), (69, 32743), (71, 32755), (79, 32773), (91, 32815), (121, 32914), (125, 32923), (129, 32941), (136, 32968), (147, 32983), (150, 32989), (152, 32995), (155, 33001), (164, 33028), (168, 33037), (187, 33070), (201, 33103), (227, 33163), (236, 33193), (239, 33199), (258, 33244), (271, 33298), (272, 33301), (308, 33445), (343, 33598),

Gene: Mitti_29 Start: 24509, Stop: 25513, Start Num: 76

Candidate Starts for Mitti_29:

(Start: 76 @24509 has 65 MA's), (131, 24677), (148, 24722), (150, 24728), (166, 24782), (201, 24872), (211, 24893), (217, 24902), (270, 25034), (271, 25037), (286, 25112), (308, 25181), (362, 25391),

Gene: MmasiCarm_33 Start: 32205, Stop: 33407, Start Num: 37

Candidate Starts for MmasiCarm_33:

(Start: 37 @32205 has 98 MA's), (49, 32238), (84, 32382), (89, 32391), (91, 32400), (101, 32439), (105, 32448), (Start: 111 @32466 has 3 MA's), (127, 32517), (129, 32526), (132, 32538), (133, 32544), (136, 32553), (155, 32598), (158, 32613), (177, 32658), (200, 32727), (205, 32742), (213, 32754), (223, 32778), (239, 32826), (242, 32832), (244, 32838), (246, 32844), (252, 32868), (272, 32943), (276, 32973), (292, 33033), (298, 33045), (301, 33063), (318, 33165), (355, 33270), (357, 33276), (359, 33294), (380, 33381),

Gene: Moostard_22 Start: 22250, Stop: 23467, Start Num: 40

Candidate Starts for Moostard_22:

(Start: 40 @22250 has 19 MA's), (64, 22352), (68, 22364), (71, 22382), (Start: 76 @22391 has 65 MA's), (87, 22430), (Start: 95 @22466 has 1 MA's), (101, 22481), (104, 22487), (113, 22517), (114, 22520), (126, 22556), (129, 22568), (147, 22619), (149, 22622), (169, 22682), (181, 22709), (186, 22724), (188, 22730), (192, 22742), (216, 22802), (225, 22826), (246, 22886), (271, 22982), (276, 23015), (298, 23087), (303, 23111), (308, 23126), (359, 23339), (363, 23351),

Gene: Mortcellus_32 Start: 32857, Stop: 34059, Start Num: 37

Candidate Starts for Mortcellus_32:

(Start: 37 @32857 has 98 MA's), (49, 32890), (84, 33034), (89, 33043), (91, 33052), (101, 33091), (105, 33100), (Start: 111 @33118 has 3 MA's), (116, 33136), (123, 33154), (125, 33160), (128, 33172), (136, 33205), (155, 33250), (158, 33265), (177, 33310), (204, 33391), (218, 33418), (225, 33436), (232, 33454), (246, 33496), (252, 33520), (272, 33595), (276, 33625), (292, 33685), (298, 33697), (301, 33715), (318, 33817), (355, 33922), (357, 33928), (359, 33946), (380, 34033),

Gene: Morty007_33 Start: 33001, Stop: 34203, Start Num: 37

Candidate Starts for Morty007_33:

(Start: 37 @33001 has 98 MA's), (49, 33034), (84, 33178), (89, 33187), (91, 33196), (101, 33235), (105, 33244), (Start: 111 @33262 has 3 MA's), (116, 33280), (123, 33298), (125, 33304), (128, 33316), (132, 33334), (136, 33349), (150, 33382), (158, 33409), (177, 33454), (204, 33535), (218, 33562), (225, 33580), (232, 33598), (246, 33640), (252, 33664), (272, 33739), (276, 33769), (292, 33829), (298, 33841), (301, 33859), (318, 33961), (355, 34066), (357, 34072), (359, 34090), (380, 34177),

Gene: Ms6_19 Start: 19730, Stop: 20884, Start Num: 37

Candidate Starts for Ms6_19:

(15, 19493), (20, 19535), (22, 19565), (24, 19595), (27, 19655), (31, 19709), (Start: 37 @19730 has 98 MA's), (54, 19811), (Start: 70 @19859 has 1 MA's), (90, 19919), (92, 19928), (94, 19943), (103, 19967), (Start: 111 @19991 has 3 MA's), (114, 20003), (136, 20078), (139, 20087), (150, 20111), (158, 20141), (213, 20225), (214, 20228), (223, 20249), (270, 20408), (289, 20498), (292, 20507), (301, 20537), (308, 20558), (381, 20861),

Gene: MsGreen_22 Start: 22247, Stop: 23464, Start Num: 40

Candidate Starts for MsGreen_22:

(Start: 40 @22247 has 19 MA's), (64, 22349), (68, 22361), (71, 22379), (Start: 76 @22388 has 65 MA's), (87, 22427), (Start: 95 @22463 has 1 MA's), (101, 22478), (104, 22484), (113, 22514), (114, 22517), (126, 22553), (129, 22565), (147, 22616), (149, 22619), (169, 22679), (181, 22706), (186, 22721), (188, 22727), (192, 22739), (216, 22799), (225, 22823), (246, 22883), (271, 22979), (276, 23012), (298, 23084), (303, 23108), (359, 23336), (363, 23348),

Gene: Mudslide_30 Start: 32852, Stop: 34009, Start Num: 37

Candidate Starts for Mudslide_30:

(Start: 37 @32852 has 98 MA's), (58, 32945), (66, 32960), (69, 32975), (71, 32987), (79, 33005), (91, 33047), (105, 33095), (121, 33146), (125, 33155), (129, 33173), (136, 33200), (147, 33215), (150, 33221), (152, 33227), (155, 33233), (164, 33260), (168, 33269), (187, 33302), (201, 33335), (236, 33425), (239, 33431), (258, 33476), (271, 33530), (272, 33533), (308, 33677), (343, 33830),

Gene: Mufasa_25 Start: 21302, Stop: 22327, Start Num: 76

Candidate Starts for Mufasa_25:

(47, 21218), (Start: 76 @21302 has 65 MA's), (109, 21407), (129, 21467), (148, 21521), (150, 21527), (180, 21608), (182, 21614), (187, 21629), (188, 21632), (272, 21836), (379, 22295),

Gene: Mulaychimus_33 Start: 32187, Stop: 33389, Start Num: 37

Candidate Starts for Mulaychimus_33:

(Start: 37 @32187 has 98 MA's), (49, 32220), (84, 32364), (89, 32373), (91, 32382), (101, 32421), (105, 32430), (Start: 111 @32448 has 3 MA's), (127, 32499), (129, 32508), (132, 32520), (133, 32526), (136, 32535), (155, 32580), (158, 32595), (177, 32640), (200, 32709), (205, 32724), (213, 32736), (223, 32760), (239, 32808), (242, 32814), (244, 32820), (246, 32826), (252, 32850), (272, 32925), (276, 32955), (292, 33015), (298, 33027), (301, 33045), (317, 33144), (318, 33147), (355, 33252), (357, 33258), (359, 33276), (380, 33363),

Gene: MulchSalad_20 Start: 19992, Stop: 21206, Start Num: 65

Candidate Starts for MulchSalad_20:

(18, 19662), (32, 19860), (Start: 63 @19989 has 6 MA's), (Start: 65 @19992 has 16 MA's), (142, 20253), (202, 20424), (255, 20574), (266, 20613), (287, 20715), (296, 20757), (370, 21129),

Gene: Murucutumbu_28 Start: 23275, Stop: 24288, Start Num: 74

Candidate Starts for Murucutumbu_28:

(Start: 74 @23275 has 99 MA's), (Start: 111 @23386 has 3 MA's), (150, 23500), (194, 23617), (209, 23659), (250, 23725), (270, 23803), (271, 23806), (292, 23899), (298, 23911), (301, 23929), (308, 23950), (331, 24064), (355, 24133), (374, 24229),

Gene: Mynx_28 Start: 23339, Stop: 24352, Start Num: 74

Candidate Starts for Mynx_28:

(10, 22895), (60, 23294), (Start: 74 @23339 has 99 MA's), (150, 23564), (194, 23681), (209, 23723), (217, 23735), (250, 23789), (270, 23867), (292, 23963), (298, 23975), (304, 24005), (308, 24014), (331, 24128), (355, 24197),

Gene: Nanao_29 Start: 31577, Stop: 32734, Start Num: 37

Candidate Starts for Nanao_29:

(Start: 37 @31577 has 98 MA's), (58, 31670), (66, 31685), (69, 31700), (71, 31712), (79, 31730), (105, 31820), (121, 31871), (125, 31880), (126, 31886), (129, 31898), (136, 31925), (147, 31940), (150, 31946), (152, 31952), (164, 31985), (168, 31994), (187, 32027), (201, 32060), (236, 32150), (239, 32156), (271, 32255), (272, 32258), (308, 32402), (343, 32555),

Gene: NatB6_44 Start: 35025, Stop: 36083, Start Num: 78

Candidate Starts for NatB6_44:

(1, 33585), (2, 33882), (3, 34113), (7, 34482), (33, 34860), (38, 34875), (44, 34893), (Start: 78 @35025 has 34 MA's), (199, 35370), (222, 35421), (240, 35469),

Gene: Nенаe_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for Nенаe_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (52, 19940), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (175, 20333), (177, 20336), (179, 20342), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Neos5_33 Start: 33020, Stop: 34222, Start Num: 37

Candidate Starts for Neos5_33:

(Start: 37 @33020 has 98 MA's), (49, 33053), (84, 33197), (89, 33206), (91, 33215), (101, 33254), (105, 33263), (Start: 111 @33281 has 3 MA's), (116, 33299), (123, 33317), (125, 33323), (128, 33335), (132, 33353), (136, 33368), (150, 33401), (158, 33428), (177, 33473), (204, 33554), (218, 33581), (225, 33599), (232, 33617), (246, 33659), (252, 33683), (272, 33758), (276, 33788), (292, 33848), (298, 33860), (301, 33878), (318, 33980), (355, 34085), (357, 34091), (359, 34109), (380, 34196),

Gene: Nibb_27 Start: 22603, Stop: 23589, Start Num: 76

Candidate Starts for Nibb_27:

(Start: 76 @22603 has 65 MA's), (110, 22708), (128, 22759), (130, 22771), (136, 22792), (138, 22798), (144, 22813), (155, 22840), (178, 22900), (187, 22927), (227, 23020), (233, 23032), (268, 23119), (271, 23131), (289, 23215), (301, 23254), (309, 23281), (324, 23350), (342, 23404),

Gene: Nicholas_22 Start: 22247, Stop: 23464, Start Num: 40

Candidate Starts for Nicholas_22:

(Start: 40 @22247 has 19 MA's), (64, 22349), (68, 22361), (71, 22379), (Start: 76 @22388 has 65 MA's), (87, 22427), (Start: 95 @22463 has 1 MA's), (101, 22478), (104, 22484), (113, 22514), (114, 22517), (126, 22553), (129, 22565), (147, 22616), (149, 22619), (169, 22679), (181, 22706), (186, 22721), (188, 22727), (192, 22739), (216, 22799), (225, 22823), (246, 22883), (271, 22979), (276, 23012), (298, 23084), (303, 23108), (359, 23336), (363, 23348),

Gene: Nigel_28 Start: 31491, Stop: 32651, Start Num: 37

Candidate Starts for Nigel_28:

(5, 30987), (Start: 37 @31491 has 98 MA's), (47, 31518), (66, 31602), (69, 31617), (71, 31629), (79, 31647), (121, 31788), (125, 31797), (129, 31815), (136, 31842), (147, 31857), (150, 31863), (152, 31869), (157, 31887), (164, 31902), (168, 31911), (187, 31944), (201, 31977), (205, 31989), (208, 31995), (236, 32067), (239, 32073), (269, 32163), (271, 32172), (308, 32319), (343, 32472),

Gene: Nikao_24 Start: 22900, Stop: 23907, Start Num: 76

Candidate Starts for Nikao_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: Niklas_28 Start: 22731, Stop: 23696, Start Num: 74

Candidate Starts for Niklas_28:

(Start: 74 @22731 has 99 MA's), (Start: 78 @22737 has 34 MA's), (127, 22890), (131, 22908), (136, 22926), (150, 22959), (162, 23001), (187, 23061), (194, 23076), (270, 23262), (271, 23265), (286, 23337), (308, 23406), (316, 23454), (321, 23469), (333, 23502), (349, 23541), (375, 23640),

Gene: NosilaM_48 Start: 35951, Stop: 37006, Start Num: 78

Candidate Starts for NosilaM_48:

(Start: 78 @35951 has 34 MA's), (145, 36164), (223, 36347), (298, 36635), (381, 36980),

Gene: November_26 Start: 23628, Stop: 24632, Start Num: 74

Candidate Starts for November_26:

(17, 23256), (62, 23592), (Start: 74 @23628 has 99 MA's), (107, 23730), (144, 23841), (156, 23874), (194, 23970), (264, 24129), (290, 24243), (327, 24396), (355, 24489),

Gene: NovumRegina_44 Start: 35355, Stop: 36413, Start Num: 78

Candidate Starts for NovumRegina_44:

(1, 33915), (2, 34212), (3, 34443), (7, 34812), (33, 35190), (38, 35205), (44, 35223), (Start: 78 @35355 has 34 MA's), (199, 35700), (222, 35751), (240, 35799),

Gene: Nozo_33 Start: 32981, Stop: 34183, Start Num: 37

Candidate Starts for Nozo_33:

(Start: 37 @32981 has 98 MA's), (49, 33014), (84, 33158), (89, 33167), (91, 33176), (101, 33215), (105, 33224), (Start: 111 @33242 has 3 MA's), (116, 33260), (123, 33278), (125, 33284), (128, 33296), (132, 33314), (136, 33329), (150, 33362), (158, 33389), (177, 33434), (204, 33515), (218, 33542), (225, 33560), (232, 33578), (246, 33620), (252, 33644), (272, 33719), (276, 33749), (292, 33809), (298, 33821), (301, 33839), (318, 33941), (355, 34046), (357, 34052), (359, 34070), (380, 34157),

Gene: Nutello_24 Start: 22900, Stop: 23907, Start Num: 76

Candidate Starts for Nutello_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: Obutu_33 Start: 32205, Stop: 33407, Start Num: 37

Candidate Starts for Obutu_33:

(Start: 37 @32205 has 98 MA's), (49, 32238), (84, 32382), (89, 32391), (91, 32400), (101, 32439), (105, 32448), (Start: 111 @32466 has 3 MA's), (127, 32517), (129, 32526), (132, 32538), (133, 32544), (136, 32553), (155, 32598), (158, 32613), (177, 32658), (200, 32727), (205, 32742), (213, 32754), (223, 32778), (239, 32826), (242, 32832), (244, 32838), (246, 32844), (252, 32868), (272, 32943), (276, 32973), (292, 33033), (298, 33045), (301, 33063), (317, 33162), (318, 33165), (355, 33270), (357, 33276), (359, 33294), (380, 33381),

Gene: OhShagHennessy_21 Start: 21653, Stop: 22825, Start Num: 41

Candidate Starts for OhShagHennessy_21:

(Start: 39 @21650 has 7 MA's), (Start: 41 @21653 has 14 MA's), (Start: 70 @21779 has 1 MA's), (83, 21821), (87, 21833), (89, 21836), (Start: 95 @21869 has 1 MA's), (99, 21881), (116, 21929), (123, 21947), (132, 21983), (136, 21998), (156, 22049), (165, 22079), (184, 22121), (215, 22145), (230, 22181), (232, 22187), (241, 22214), (246, 22232), (272, 22325), (273, 22328), (290, 22412), (321, 22550), (330, 22568), (355, 22652),

Gene: Olivio_32 Start: 32074, Stop: 33276, Start Num: 37

Candidate Starts for Olivio_32:

(Start: 37 @32074 has 98 MA's), (49, 32107), (84, 32251), (89, 32260), (91, 32269), (101, 32308), (105, 32317), (Start: 111 @32335 has 3 MA's), (116, 32353), (123, 32371), (125, 32377), (128, 32389), (132, 32407), (136, 32422), (150, 32455), (158, 32482), (177, 32527), (204, 32608), (218, 32635), (225, 32653), (232, 32671), (246, 32713), (252, 32737), (272, 32812), (276, 32842), (292, 32902), (298, 32914), (301, 32932), (317, 33031), (318, 33034), (355, 33139), (357, 33145), (359, 33163),

(380, 33250),

Gene: OmniCritical_29 Start: 24494, Stop: 25498, Start Num: 76

Candidate Starts for OmniCritical_29:

(Start: 76 @24494 has 65 MA's), (131, 24662), (148, 24707), (150, 24713), (166, 24767), (172, 24776), (201, 24857), (211, 24878), (216, 24884), (217, 24887), (270, 25019), (271, 25022), (301, 25145), (362, 25376),

Gene: OrangeOswald_33 Start: 32222, Stop: 33424, Start Num: 37

Candidate Starts for OrangeOswald_33:

(Start: 37 @32222 has 98 MA's), (49, 32255), (84, 32399), (89, 32408), (91, 32417), (101, 32456), (105, 32465), (Start: 111 @32483 has 3 MA's), (116, 32501), (123, 32519), (125, 32525), (128, 32537), (132, 32555), (136, 32570), (150, 32603), (158, 32630), (177, 32675), (204, 32756), (218, 32783), (225, 32801), (232, 32819), (246, 32861), (252, 32885), (272, 32960), (276, 32990), (292, 33050), (298, 33062), (301, 33080), (318, 33182), (355, 33287), (357, 33293), (359, 33311), (380, 33398),

Gene: Oscar_27 Start: 22584, Stop: 23552, Start Num: 75

Candidate Starts for Oscar_27:

(Start: 75 @22584 has 4 MA's), (129, 22746), (130, 22752), (136, 22773), (138, 22779), (155, 22821), (170, 22866), (187, 22908), (194, 22923), (250, 23031), (272, 23115), (348, 23391),

Gene: Outis_46 Start: 35932, Stop: 36987, Start Num: 78

Candidate Starts for Outis_46:

(57, 35869), (Start: 78 @35932 has 34 MA's), (145, 36145), (213, 36304), (223, 36328), (298, 36616), (372, 36916), (381, 36961),

Gene: P3MA_24 Start: 20823, Stop: 21977, Start Num: 43

Candidate Starts for P3MA_24:

(Start: 43 @20823 has 1 MA's), (71, 20955), (72, 20958), (87, 21003), (89, 21006), (91, 21015), (Start: 95 @21039 has 1 MA's), (109, 21075), (110, 21078), (Start: 111 @21081 has 3 MA's), (129, 21141), (136, 21168), (150, 21201), (156, 21219), (216, 21315), (218, 21321), (224, 21336), (239, 21381), (265, 21471), (269, 21489), (308, 21645), (317, 21711),

Gene: PYPDinur_21 Start: 21427, Stop: 22581, Start Num: 40

Candidate Starts for PYPDinur_21:

(Start: 40 @21427 has 19 MA's), (64, 21529), (68, 21541), (89, 21610), (116, 21703), (132, 21757), (141, 21787), (147, 21796), (159, 21835), (179, 21883), (188, 21907), (192, 21919), (225, 21943), (246, 22003), (254, 22033), (285, 22150), (289, 22186), (292, 22195), (309, 22252), (313, 22291),

Gene: Padfoot_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Padfoot_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Padpat_28 Start: 23316, Stop: 24329, Start Num: 74

Candidate Starts for Padpat_28:

(10, 22872), (60, 23271), (Start: 74 @23316 has 99 MA's), (150, 23541), (194, 23658), (209, 23700), (217, 23712), (250, 23766), (270, 23844), (292, 23940), (298, 23952), (304, 23982), (308, 23991), (331, 24105), (355, 24174),

Gene: Parmesanjohn_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Parmesanjohn_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Patio_48 Start: 36198, Stop: 37259, Start Num: 78

Candidate Starts for Patio_48:

(Start: 78 @36198 has 34 MA's), (134, 36384), (210, 36570), (213, 36573), (272, 36783),

Gene: Patt_29 Start: 24327, Stop: 25331, Start Num: 76

Candidate Starts for Patt_29:

(Start: 76 @24327 has 65 MA's), (131, 24495), (148, 24540), (150, 24546), (166, 24600), (201, 24690), (211, 24711), (217, 24720), (270, 24852), (271, 24855), (306, 24993), (314, 25062),

Gene: Peanam_28 Start: 22728, Stop: 23693, Start Num: 74

Candidate Starts for Peanam_28:

(Start: 74 @22728 has 99 MA's), (Start: 78 @22734 has 34 MA's), (127, 22887), (131, 22905), (136, 22923), (150, 22956), (162, 22998), (187, 23058), (194, 23073), (217, 23127), (270, 23259), (271, 23262), (286, 23334), (308, 23403), (316, 23451), (321, 23466), (333, 23499), (349, 23538), (375, 23637),

Gene: Peel_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Peel_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Pemberton_48 Start: 33038, Stop: 34129, Start Num: 78

Candidate Starts for Pemberton_48:

(Start: 78 @33038 has 34 MA's), (88, 33071), (117, 33167), (182, 33350), (204, 33419), (250, 33557), (253, 33569), (254, 33572),

Gene: Phaedrus_31 Start: 32138, Stop: 33340, Start Num: 37

Candidate Starts for Phaedrus_31:

(Start: 37 @32138 has 98 MA's), (49, 32171), (84, 32315), (89, 32324), (91, 32333), (101, 32372), (105, 32381), (Start: 111 @32399 has 3 MA's), (116, 32417), (123, 32435), (125, 32441), (128, 32453), (132, 32471), (136, 32486), (150, 32519), (158, 32546), (177, 32591), (204, 32672), (218, 32699), (225, 32717), (232, 32735), (246, 32777), (276, 32906), (301, 32996), (318, 33098), (338, 33155), (341, 33164), (355, 33203), (367, 33275), (381, 33317),

Gene: PhancyPhin_21 Start: 19874, Stop: 21028, Start Num: 37

Candidate Starts for PhancyPhin_21:

(15, 19637), (20, 19679), (22, 19709), (24, 19739), (27, 19799), (31, 19853), (Start: 37 @19874 has 98 MA's), (52, 19937), (54, 19955), (Start: 70 @20003 has 1 MA's), (90, 20063), (92, 20072), (94, 20087), (103, 20111), (Start: 111 @20135 has 3 MA's), (114, 20147), (136, 20222), (139, 20231), (150, 20255), (158, 20285), (175, 20330), (177, 20333), (179, 20339), (213, 20369), (214, 20372), (223, 20393), (270, 20552), (289, 20642), (292, 20651), (301, 20681), (308, 20702), (381, 21005),

Gene: Pharb_27 Start: 23529, Stop: 24596, Start Num: 73

Candidate Starts for Pharb_27:

(Start: 73 @23529 has 1 MA's), (86, 23565), (88, 23568), (Start: 111 @23634 has 3 MA's), (122, 23661), (134, 23709), (144, 23736), (150, 23748), (156, 23769), (182, 23835), (217, 23919), (238, 23976), (240, 23979), (270, 24111), (271, 24114), (275, 24147), (282, 24162), (307, 24255), (322, 24345),

Gene: PhelpsODU_28 Start: 22720, Stop: 23781, Start Num: 76

Candidate Starts for PhelpsODU_28:

(47, 22630), (56, 22687), (Start: 76 @22720 has 65 MA's), (109, 22819), (144, 22927), (150, 22939), (156, 22960), (194, 23056), (240, 23170), (249, 23221), (275, 23338), (336, 23581), (340, 23599), (355, 23638),

Gene: Philly_32 Start: 32073, Stop: 33275, Start Num: 37

Candidate Starts for Philly_32:

(Start: 37 @32073 has 98 MA's), (84, 32250), (89, 32259), (91, 32268), (101, 32307), (105, 32316), (Start: 111 @32334 has 3 MA's), (116, 32352), (123, 32370), (125, 32376), (128, 32388), (132, 32406), (136, 32421), (150, 32454), (158, 32481), (177, 32526), (204, 32607), (218, 32634), (225, 32652), (232, 32670), (246, 32712), (252, 32736), (272, 32811), (276, 32841), (292, 32901), (298, 32913), (301, 32931), (318, 33033), (355, 33138), (357, 33144), (359, 33162), (380, 33249),

Gene: Philonius_22 Start: 20220, Stop: 21437, Start Num: 63

Candidate Starts for Philonius_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Phloss_21 Start: 20203, Stop: 21360, Start Num: 37

Candidate Starts for Phloss_21:

(Start: 37 @20203 has 98 MA's), (54, 20284), (Start: 70 @20332 has 1 MA's), (90, 20392), (92, 20401), (94, 20416), (103, 20440), (Start: 111 @20464 has 3 MA's), (114, 20476), (132, 20536), (136, 20551), (139, 20560), (150, 20584), (155, 20599), (158, 20614), (213, 20698), (214, 20701), (223, 20722), (231, 20743), (233, 20752), (236, 20764), (241, 20773), (308, 21034), (315, 21103), (381, 21337),

Gene: Phlyer_33 Start: 32957, Stop: 34159, Start Num: 37

Candidate Starts for Phlyer_33:

(Start: 37 @32957 has 98 MA's), (49, 32990), (84, 33134), (89, 33143), (91, 33152), (101, 33191), (105, 33200), (Start: 111 @33218 has 3 MA's), (116, 33236), (123, 33254), (125, 33260), (128, 33272), (132, 33290), (136, 33305), (150, 33338), (158, 33365), (177, 33410), (204, 33491), (218, 33518), (225, 33536), (232, 33554), (246, 33596), (276, 33725), (301, 33815), (318, 33917), (338, 33974), (341, 33983), (355, 34022), (367, 34094), (381, 34136),

Gene: Phomeo_43 Start: 35624, Stop: 36682, Start Num: 78

Candidate Starts for Phomeo_43:

(1, 34184), (2, 34481), (3, 34712), (7, 35081), (33, 35459), (38, 35474), (44, 35492), (Start: 78 @35624 has 34 MA's), (199, 35969), (222, 36020), (240, 36068),

Gene: Phrank_28 Start: 22670, Stop: 23731, Start Num: 76

Candidate Starts for Phrank_28:

(Start: 76 @22670 has 65 MA's), (100, 22748), (102, 22751), (109, 22769), (144, 22877), (155, 22904), (156, 22910), (194, 23006), (198, 23018), (240, 23120), (249, 23171), (275, 23288), (336, 23531), (340, 23549), (355, 23588),

Gene: Piatt_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Piatt_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Pippy_19 Start: 20253, Stop: 21410, Start Num: 36

Candidate Starts for Pippy_19:

(35, 20250), (Start: 36 @20253 has 2 MA's), (54, 20334), (Start: 70 @20382 has 1 MA's), (90, 20442), (92, 20451), (94, 20466), (103, 20490), (Start: 111 @20514 has 3 MA's), (114, 20526), (132, 20586), (136, 20601), (139, 20610), (150, 20634), (158, 20664), (213, 20748), (214, 20751), (223, 20772), (231, 20793), (233, 20802), (236, 20814), (241, 20823), (308, 21084), (315, 21153), (381, 21387),

Gene: Pipsqueaks_22 Start: 20220, Stop: 21437, Start Num: 63

Candidate Starts for Pipsqueaks_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Pisa1_27 Start: 23391, Stop: 24404, Start Num: 74

Candidate Starts for Pisa1_27:

(Start: 74 @23391 has 99 MA's), (Start: 111 @23502 has 3 MA's), (146, 23607), (150, 23616), (178, 23691), (194, 23733), (209, 23775), (217, 23787), (250, 23841), (270, 23919), (292, 24015), (298, 24027), (303, 24051), (355, 24249), (374, 24345),

Gene: Pisa4_27 Start: 23391, Stop: 24404, Start Num: 74

Candidate Starts for Pisa4_27:

(Start: 74 @23391 has 99 MA's), (Start: 111 @23502 has 3 MA's), (146, 23607), (150, 23616), (178, 23691), (194, 23733), (209, 23775), (217, 23787), (250, 23841), (270, 23919), (292, 24015), (298, 24027), (303, 24051), (355, 24249), (374, 24345),

Gene: Pixie_28 Start: 23724, Stop: 24788, Start Num: 76

Candidate Starts for Pixie_28:

(6, 23172), (8, 23238), (9, 23301), (11, 23313), (12, 23334), (16, 23376), (28, 23535), (47, 23634), (56, 23691), (Start: 76 @23724 has 65 MA's), (122, 23856), (124, 23862), (144, 23931), (148, 23937), (166, 23997), (178, 24018), (183, 24033), (216, 24111), (270, 24303), (275, 24339), (288, 24387), (301, 24429), (331, 24555),

Gene: Pleakley_53 Start: 35398, Stop: 36480, Start Num: 78

Candidate Starts for Pleakley_53:

(Start: 78 @35398 has 34 MA's), (114, 35515), (193, 35743), (227, 35827), (230, 35833), (243, 35872), (245, 35887), (253, 35929), (293, 36094), (337, 36274), (372, 36412),

Gene: Pokerus_27 Start: 23273, Stop: 24286, Start Num: 74

Candidate Starts for Pokerus_27:

(10, 22829), (60, 23228), (Start: 74 @23273 has 99 MA's), (Start: 111 @23384 has 3 MA's), (150, 23498), (194, 23615), (209, 23657), (217, 23669), (250, 23723), (270, 23801), (292, 23897), (298, 23909), (304, 23939), (308, 23948), (331, 24062), (355, 24131),

Gene: Poochiewood_21 Start: 21688, Stop: 22860, Start Num: 41

Candidate Starts for Poochiewood_21:

(Start: 39 @21685 has 7 MA's), (Start: 41 @21688 has 14 MA's), (Start: 70 @21814 has 1 MA's), (83, 21856), (87, 21868), (89, 21871), (Start: 95 @21904 has 1 MA's), (99, 21916), (116, 21964), (123, 21982), (132, 22018), (136, 22033), (156, 22084), (165, 22114), (184, 22156), (215, 22180), (230, 22216), (232, 22222), (241, 22249), (246, 22267), (272, 22360), (273, 22363), (290, 22447), (321, 22585), (330, 22603), (355, 22687),

Gene: Poster_29 Start: 31578, Stop: 32735, Start Num: 37

Candidate Starts for Poster_29:

(Start: 37 @31578 has 98 MA's), (58, 31671), (66, 31686), (69, 31701), (71, 31713), (79, 31731), (105, 31821), (121, 31872), (125, 31881), (126, 31887), (129, 31899), (136, 31926), (147, 31941), (150, 31947), (152, 31953), (164, 31986), (168, 31995), (187, 32028), (201, 32061), (236, 32151), (239,

32157), (271, 32256), (272, 32259), (308, 32403), (343, 32556),

Gene: Prince_30 Start: 32761, Stop: 33918, Start Num: 37

Candidate Starts for Prince_30:

(Start: 37 @32761 has 98 MA's), (58, 32854), (66, 32869), (69, 32884), (71, 32896), (79, 32914), (91, 32956), (105, 33004), (121, 33055), (125, 33064), (129, 33082), (136, 33109), (147, 33124), (150, 33130), (152, 33136), (155, 33142), (164, 33169), (168, 33178), (187, 33211), (201, 33244), (227, 33304), (236, 33334), (239, 33340), (258, 33385), (271, 33439), (272, 33442), (308, 33586), (343, 33739),

Gene: Prithvi_28 Start: 23290, Stop: 24303, Start Num: 74

Candidate Starts for Prithvi_28:

(60, 23245), (Start: 74 @23290 has 99 MA's), (Start: 111 @23401 has 3 MA's), (150, 23515), (194, 23632), (209, 23674), (217, 23686), (250, 23740), (270, 23818), (288, 23902), (292, 23914), (298, 23926), (308, 23965), (374, 24244),

Gene: Psycho_28 Start: 24008, Stop: 25072, Start Num: 46

Candidate Starts for Psycho_28:

(Start: 46 @24008 has 3 MA's), (Start: 70 @24098 has 1 MA's), (81, 24128), (96, 24182), (99, 24188), (120, 24236), (132, 24275), (137, 24293), (138, 24296), (174, 24377), (220, 24425), (228, 24443), (271, 24584), (290, 24674), (291, 24677), (292, 24680), (302, 24713), (306, 24725), (323, 24812), (325, 24815), (355, 24911), (377, 25028),

Gene: Purgamenstris_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for Purgamenstris_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (52, 19940), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (175, 20333), (177, 20336), (179, 20342), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Qhanda_30 Start: 24605, Stop: 25609, Start Num: 76

Candidate Starts for Qhanda_30:

(Start: 76 @24605 has 65 MA's), (131, 24773), (148, 24818), (150, 24824), (166, 24878), (172, 24887), (201, 24968), (211, 24989), (216, 24995), (217, 24998), (270, 25130), (271, 25133), (301, 25256),

Gene: QueenHazel_22 Start: 21423, Stop: 22634, Start Num: 37

Candidate Starts for QueenHazel_22:

(15, 21186), (20, 21228), (24, 21288), (27, 21348), (31, 21402), (Start: 37 @21423 has 98 MA's), (54, 21504), (Start: 70 @21552 has 1 MA's), (90, 21612), (92, 21621), (94, 21636), (103, 21660), (Start: 111 @21684 has 3 MA's), (114, 21696), (126, 21732), (136, 21771), (139, 21780), (150, 21804), (158, 21834), (190, 21918), (191, 21921), (198, 21942), (213, 21978), (214, 21981), (223, 22002), (236, 22044), (270, 22161), (276, 22197), (277, 22203), (308, 22308), (318, 22389),

Gene: QueenPie_29 Start: 32702, Stop: 33859, Start Num: 37

Candidate Starts for QueenPie_29:

(Start: 37 @32702 has 98 MA's), (58, 32795), (66, 32810), (69, 32825), (71, 32837), (79, 32855), (105, 32945), (121, 32996), (125, 33005), (129, 33023), (136, 33050), (147, 33065), (150, 33071), (152, 33077), (155, 33083), (164, 33110), (168, 33119), (187, 33152), (201, 33185), (208, 33203), (227, 33245), (236, 33275), (239, 33281), (248, 33302), (271, 33380), (272, 33383), (283, 33428), (308, 33527), (343, 33680),

Gene: QuincyRose_27 Start: 23336, Stop: 24349, Start Num: 74

Candidate Starts for QuincyRose_27:

(10, 22892), (60, 23291), (Start: 74 @23336 has 99 MA's), (Start: 111 @23447 has 3 MA's), (150, 23561), (194, 23678), (209, 23720), (217, 23732), (246, 23771), (250, 23786), (270, 23864), (288, 23948), (292, 23960), (298, 23972), (308, 24011), (331, 24125), (355, 24194),

Gene: RagingRooster_33 Start: 32223, Stop: 33425, Start Num: 37

Candidate Starts for RagingRooster_33:

(Start: 37 @32223 has 98 MA's), (49, 32256), (84, 32400), (89, 32409), (91, 32418), (101, 32457), (105, 32466), (Start: 111 @32484 has 3 MA's), (116, 32502), (123, 32520), (125, 32526), (128, 32538), (132, 32556), (136, 32571), (150, 32604), (158, 32631), (177, 32676), (204, 32757), (218, 32784), (225, 32802), (232, 32820), (246, 32862), (252, 32886), (272, 32961), (276, 32991), (292, 33051), (298, 33063), (301, 33081), (318, 33183), (355, 33288), (357, 33294), (359, 33312), (380, 33399),

Gene: Ramen_28 Start: 23322, Stop: 24335, Start Num: 74

Candidate Starts for Ramen_28:

(10, 22878), (60, 23277), (Start: 74 @23322 has 99 MA's), (Start: 111 @23433 has 3 MA's), (150, 23547), (194, 23664), (209, 23706), (217, 23718), (250, 23772), (270, 23850), (292, 23946), (304, 23988), (308, 23997), (331, 24111), (355, 24180),

Gene: Rapunzel97_28 Start: 23323, Stop: 24336, Start Num: 74

Candidate Starts for Rapunzel97_28:

(10, 22879), (23, 23026), (60, 23278), (Start: 74 @23323 has 99 MA's), (Start: 111 @23434 has 3 MA's), (150, 23548), (194, 23665), (209, 23707), (217, 23719), (250, 23773), (270, 23851), (292, 23947), (298, 23959), (304, 23989), (308, 23998), (331, 24112), (355, 24181),

Gene: RawrgerThat_30 Start: 32607, Stop: 33764, Start Num: 37

Candidate Starts for RawrgerThat_30:

(Start: 37 @32607 has 98 MA's), (58, 32700), (66, 32715), (69, 32730), (71, 32742), (79, 32760), (91, 32802), (121, 32901), (125, 32910), (129, 32928), (136, 32955), (147, 32970), (150, 32976), (152, 32982), (155, 32988), (164, 33015), (168, 33024), (187, 33057), (201, 33090), (236, 33180), (239, 33186), (271, 33285), (272, 33288), (308, 33432), (343, 33585),

Gene: Red305_22 Start: 22247, Stop: 23464, Start Num: 40

Candidate Starts for Red305_22:

(Start: 40 @22247 has 19 MA's), (64, 22349), (68, 22361), (71, 22379), (Start: 76 @22388 has 65 MA's), (87, 22427), (Start: 95 @22463 has 1 MA's), (101, 22478), (104, 22484), (113, 22514), (114, 22517), (126, 22553), (129, 22565), (147, 22616), (149, 22619), (169, 22679), (181, 22706), (186, 22721), (188, 22727), (192, 22739), (216, 22799), (225, 22823), (246, 22883), (271, 22979), (276, 23012), (298, 23084), (303, 23108), (359, 23336), (363, 23348),

Gene: RedRaider_52 Start: 38220, Stop: 39278, Start Num: 78

Candidate Starts for RedRaider_52:

(Start: 78 @38220 has 34 MA's), (131, 38394), (151, 38448), (219, 38610), (240, 38664), (298, 38907), (372, 39207),

Gene: Redi_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for Redi_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (52, 19940), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (175, 20333), (177, 20336), (179, 20342), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Renkei_29 Start: 31609, Stop: 32769, Start Num: 37

Candidate Starts for Renkei_29:

(Start: 37 @31609 has 98 MA's), (58, 31702), (66, 31717), (69, 31732), (71, 31744), (79, 31762), (89, 31795), (97, 31837), (121, 31903), (125, 31912), (129, 31930), (136, 31957), (150, 31978), (152, 31984), (153, 31987), (158, 32005), (168, 32029), (187, 32062), (205, 32107), (216, 32125), (227, 32155), (236, 32185), (239, 32191), (263, 32257), (271, 32290), (308, 32437), (343, 32590),

Gene: Reptar3000_29 Start: 24320, Stop: 25324, Start Num: 76

Candidate Starts for Reptar3000_29:

(Start: 76 @24320 has 65 MA's), (131, 24488), (148, 24533), (150, 24539), (166, 24593), (172, 24602), (201, 24683), (211, 24704), (217, 24713), (270, 24845), (271, 24848), (306, 24986), (314, 25055), (372, 25259),

Gene: Richo_28 Start: 22728, Stop: 23693, Start Num: 74

Candidate Starts for Richo_28:

(Start: 74 @22728 has 99 MA's), (Start: 78 @22734 has 34 MA's), (127, 22887), (131, 22905), (136, 22923), (150, 22956), (162, 22998), (187, 23058), (194, 23073), (270, 23259), (271, 23262), (286, 23334), (308, 23403), (316, 23451), (321, 23466), (333, 23499), (349, 23538), (375, 23637),

Gene: Rita1961_33 Start: 32206, Stop: 33408, Start Num: 37

Candidate Starts for Rita1961_33:

(Start: 37 @32206 has 98 MA's), (49, 32239), (84, 32383), (89, 32392), (91, 32401), (101, 32440), (105, 32449), (Start: 111 @32467 has 3 MA's), (127, 32518), (129, 32527), (132, 32539), (133, 32545), (136, 32554), (155, 32599), (158, 32614), (177, 32659), (200, 32728), (205, 32743), (213, 32755), (223, 32779), (239, 32827), (242, 32833), (244, 32839), (246, 32845), (252, 32869), (272, 32944), (276, 32974), (292, 33034), (298, 33046), (301, 33064), (317, 33163), (318, 33166), (355, 33271), (357, 33277), (359, 33295), (380, 33382),

Gene: RomaT_33 Start: 32996, Stop: 34198, Start Num: 37

Candidate Starts for RomaT_33:

(Start: 37 @32996 has 98 MA's), (49, 33029), (84, 33173), (89, 33182), (91, 33191), (101, 33230), (105, 33239), (Start: 111 @33257 has 3 MA's), (116, 33275), (123, 33293), (125, 33299), (128, 33311), (132, 33329), (136, 33344), (150, 33377), (158, 33404), (177, 33449), (204, 33530), (218, 33557), (225, 33575), (232, 33593), (246, 33635), (252, 33659), (272, 33734), (276, 33764), (292, 33824), (298, 33836), (301, 33854), (318, 33956), (355, 34061), (357, 34067), (359, 34085), (380, 34172),

Gene: Rose5_21 Start: 21688, Stop: 22860, Start Num: 41

Candidate Starts for Rose5_21:

(Start: 39 @21685 has 7 MA's), (Start: 41 @21688 has 14 MA's), (Start: 70 @21814 has 1 MA's), (83, 21856), (87, 21868), (89, 21871), (Start: 95 @21904 has 1 MA's), (99, 21916), (116, 21964), (123, 21982), (132, 22018), (136, 22033), (156, 22084), (165, 22114), (184, 22156), (215, 22180), (230, 22216), (232, 22222), (241, 22249), (246, 22267), (272, 22360), (273, 22363), (290, 22447), (321, 22585), (330, 22603), (355, 22687),

Gene: Rosmarinus_28 Start: 23344, Stop: 24357, Start Num: 74

Candidate Starts for Rosmarinus_28:

(10, 22900), (60, 23299), (Start: 74 @23344 has 99 MA's), (150, 23569), (194, 23686), (209, 23728), (217, 23740), (250, 23794), (270, 23872), (292, 23968), (304, 24010), (308, 24019), (331, 24133), (355, 24202),

Gene: Samty_22 Start: 22250, Stop: 23467, Start Num: 40

Candidate Starts for Samty_22:

(Start: 40 @22250 has 19 MA's), (64, 22352), (68, 22364), (71, 22382), (Start: 76 @22391 has 65 MA's), (87, 22430), (Start: 95 @22466 has 1 MA's), (101, 22481), (104, 22487), (113, 22517), (114, 22520), (126, 22556), (129, 22568), (147, 22619), (149, 22622), (169, 22682), (181, 22709), (186, 22724), (188, 22730), (192, 22742), (216, 22802), (225, 22826), (246, 22886), (271, 22982), (276, 23015), (298, 23087), (303, 23111), (308, 23126), (359, 23339), (363, 23351),

Gene: SamuelLPlaqson_28 Start: 23284, Stop: 24297, Start Num: 74

Candidate Starts for SamuelLPlaqson_28:

(60, 23239), (Start: 74 @23284 has 99 MA's), (Start: 111 @23395 has 3 MA's), (150, 23509), (194, 23626), (209, 23668), (217, 23680), (250, 23734), (270, 23812), (292, 23908), (298, 23920), (308, 23959), (312, 23995), (355, 24142), (374, 24238),

Gene: Sarma624_20 Start: 20090, Stop: 21244, Start Num: 37

Candidate Starts for Sarma624_20:

(Start: 34 @20087 has 3 MA's), (Start: 37 @20090 has 98 MA's), (Start: 70 @20219 has 1 MA's), (80, 20249), (90, 20279), (92, 20288), (94, 20303), (103, 20327), (Start: 111 @20351 has 3 MA's), (114, 20363), (136, 20438), (139, 20447), (150, 20471), (158, 20501), (213, 20585), (214, 20588), (223, 20609), (289, 20858), (292, 20867), (301, 20897), (308, 20918), (315, 20987), (381, 21221),

Gene: Scarlett_27 Start: 22586, Stop: 23545, Start Num: 75

Candidate Starts for Scarlett_27:

(Start: 75 @22586 has 4 MA's), (129, 22748), (130, 22754), (136, 22775), (138, 22781), (155, 22823), (170, 22868), (187, 22910), (194, 22925), (250, 23033), (272, 23117), (348, 23393),

Gene: Schnauzer_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Schnauzer_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Scuba_53 Start: 35472, Stop: 36554, Start Num: 78

Candidate Starts for Scuba_53:

(Start: 78 @35472 has 34 MA's), (114, 35589), (193, 35817), (227, 35901), (230, 35907), (245, 35961), (372, 36486),

Gene: SgtBeansprout_24 Start: 22900, Stop: 23907, Start Num: 76

Candidate Starts for SgtBeansprout_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: Shadow1_27 Start: 22543, Stop: 23604, Start Num: 76

Candidate Starts for Shadow1_27:

(47, 22453), (Start: 76 @22543 has 65 MA's), (102, 22624), (109, 22642), (144, 22750), (150, 22762), (156, 22783), (194, 22879), (240, 22993), (249, 23044), (275, 23161), (282, 23176), (298, 23233), (308, 23272), (355, 23461),

Gene: Shaobing_28 Start: 22728, Stop: 23693, Start Num: 74

Candidate Starts for Shaobing_28:

(Start: 74 @22728 has 99 MA's), (Start: 78 @22734 has 34 MA's), (127, 22887), (131, 22905), (136, 22923), (150, 22956), (162, 22998), (187, 23058), (194, 23073), (270, 23259), (271, 23262), (286, 23334), (308, 23403), (316, 23451), (321, 23466), (333, 23499), (349, 23538), (375, 23637),

Gene: ShedlockHolmes_28 Start: 23930, Stop: 24949, Start Num: 76

Candidate Starts for ShedlockHolmes_28:

(13, 23549), (14, 23561), (18, 23597), (21, 23621), (28, 23741), (47, 23840), (56, 23897), (Start: 76 @23930 has 65 MA's), (86, 23963), (122, 24062), (124, 24068), (127, 24080), (144, 24137), (148, 24143), (166, 24203), (194, 24266), (197, 24275), (212, 24311), (222, 24332), (227, 24344), (252, 24383), (270, 24452), (293, 24551), (308, 24599), (312, 24635), (329, 24698), (339, 24740), (355, 24788), (364, 24830), (381, 24926),

Gene: Shenandoah_33 Start: 32195, Stop: 33397, Start Num: 37

Candidate Starts for Shenandoah_33:

(Start: 37 @32195 has 98 MA's), (49, 32228), (84, 32372), (89, 32381), (91, 32390), (101, 32429), (105, 32438), (Start: 111 @32456 has 3 MA's), (116, 32474), (123, 32492), (125, 32498), (128, 32510), (132, 32528), (136, 32543), (150, 32576), (158, 32603), (177, 32648), (204, 32729), (218, 32756), (225, 32774), (232, 32792), (246, 32834), (252, 32858), (272, 32933), (276, 32963), (292, 33023), (298, 33035), (301, 33053), (318, 33155), (355, 33260), (357, 33266), (359, 33284), (380, 33371),

Gene: Sheng711_21 Start: 21427, Stop: 22581, Start Num: 40

Candidate Starts for Sheng711_21:

(Start: 40 @21427 has 19 MA's), (64, 21529), (68, 21541), (89, 21610), (116, 21703), (132, 21757), (141, 21787), (147, 21796), (159, 21835), (179, 21883), (188, 21907), (192, 21919), (225, 21943), (254, 22033), (285, 22150), (289, 22186), (292, 22195), (309, 22252), (313, 22291),

Gene: ShiaSurprise_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for ShiaSurprise_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (Start: 111 @23467 has 3 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (298, 23992), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: ShrimpFriedEgg_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for ShrimpFriedEgg_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (52, 19940), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (175, 20333), (177, 20336), (179, 20342), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Silvafighter_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Silvafighter_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Silverleaf_21 Start: 21688, Stop: 22860, Start Num: 41

Candidate Starts for Silverleaf_21:

(Start: 39 @21685 has 7 MA's), (Start: 41 @21688 has 14 MA's), (Start: 70 @21814 has 1 MA's), (83, 21856), (87, 21868), (89, 21871), (Start: 95 @21904 has 1 MA's), (99, 21916), (116, 21964), (123, 21982), (132, 22018), (136, 22033), (156, 22084), (165, 22114), (184, 22156), (215, 22180), (230, 22216), (232, 22222), (241, 22249), (246, 22267), (272, 22360), (273, 22363), (290, 22447), (321, 22585), (330, 22603), (355, 22687),

Gene: Silvy_22 Start: 20224, Stop: 21438, Start Num: 65

Candidate Starts for Silvy_22:

(18, 19894), (32, 20092), (Start: 63 @20221 has 6 MA's), (Start: 65 @20224 has 16 MA's), (142, 20485), (202, 20656), (255, 20806), (266, 20845), (287, 20947), (296, 20989), (370, 21361),

Gene: SirPhilip_27 Start: 22229, Stop: 23257, Start Num: 76

Candidate Starts for SirPhilip_27:

(Start: 76 @22229 has 65 MA's), (131, 22400), (136, 22418), (155, 22466), (178, 22526), (194, 22568), (199, 22586), (209, 22610), (246, 22661), (252, 22685), (267, 22742), (271, 22757), (286, 22829), (308, 22898),

Gene: Skysand_47 Start: 36418, Stop: 37479, Start Num: 78

Candidate Starts for Skysand_47:

(Start: 78 @36418 has 34 MA's), (134, 36604), (210, 36790), (213, 36793), (272, 37003),

Gene: Slarp_29 Start: 24596, Stop: 25600, Start Num: 76

Candidate Starts for Slarp_29:

(Start: 76 @24596 has 65 MA's), (131, 24764), (148, 24809), (150, 24815), (166, 24869), (172, 24878), (201, 24959), (211, 24980), (216, 24986), (217, 24989), (270, 25121), (271, 25124), (301, 25247),

Gene: Slimphazie_28 Start: 23323, Stop: 24336, Start Num: 74

Candidate Starts for Slimphazie_28:

(10, 22879), (23, 23026), (60, 23278), (Start: 74 @23323 has 99 MA's), (Start: 111 @23434 has 3 MA's), (150, 23548), (194, 23665), (209, 23707), (217, 23719), (250, 23773), (270, 23851), (292, 23947), (298, 23959), (304, 23989), (308, 23998), (331, 24112), (355, 24181),

Gene: SlippinJimmy_33 Start: 32984, Stop: 34186, Start Num: 37

Candidate Starts for SlippinJimmy_33:

(Start: 37 @32984 has 98 MA's), (49, 33017), (84, 33161), (89, 33170), (91, 33179), (101, 33218), (105, 33227), (Start: 111 @33245 has 3 MA's), (116, 33263), (123, 33281), (125, 33287), (128, 33299), (132, 33317), (136, 33332), (150, 33365), (158, 33392), (177, 33437), (204, 33518), (218, 33545), (225, 33563), (232, 33581), (246, 33623), (276, 33752), (280, 33761), (301, 33842), (318, 33944), (338, 34001), (341, 34010), (355, 34049), (367, 34121), (381, 34163),

Gene: Smurph_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Smurph_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Snekmaggedon_21 Start: 20006, Stop: 21031, Start Num: 70

Candidate Starts for Snekmaggedon_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Snenia_22 Start: 22248, Stop: 23465, Start Num: 40

Candidate Starts for Snenia_22:

(Start: 40 @22248 has 19 MA's), (64, 22350), (68, 22362), (71, 22380), (Start: 76 @22389 has 65 MA's), (87, 22428), (Start: 95 @22464 has 1 MA's), (101, 22479), (104, 22485), (113, 22515), (114, 22518), (126, 22554), (129, 22566), (147, 22617), (149, 22620), (169, 22680), (181, 22707), (186, 22722), (188, 22728), (192, 22740), (216, 22800), (225, 22824), (246, 22884), (271, 22980), (276, 23013), (298, 23085), (303, 23109), (359, 23337), (363, 23349),

Gene: SororFago_32 Start: 24455, Stop: 25399, Start Num: 98

Candidate Starts for SororFago_32:

(Start: 98 @24455 has 5 MA's), (141, 24578), (156, 24614), (185, 24689), (230, 24752), (232, 24758), (244, 24791), (271, 24893),

Gene: Spinach_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for Spinach_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (52, 19940), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (175, 20333), (177, 20336), (179, 20342), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Spock_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Spock_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: SpongeBob_21 Start: 19877, Stop: 21031, Start Num: 37

Candidate Starts for SpongeBob_21:

(15, 19640), (20, 19682), (22, 19712), (24, 19742), (27, 19802), (31, 19856), (Start: 37 @19877 has 98 MA's), (54, 19958), (Start: 70 @20006 has 1 MA's), (90, 20066), (92, 20075), (94, 20090), (103, 20114), (Start: 111 @20138 has 3 MA's), (114, 20150), (136, 20225), (139, 20234), (150, 20258), (158, 20288), (213, 20372), (214, 20375), (223, 20396), (270, 20555), (289, 20645), (292, 20654), (301, 20684), (308, 20705), (381, 21008),

Gene: Squirty_20 Start: 19922, Stop: 21079, Start Num: 37

Candidate Starts for Squirty_20:

(Start: 37 @19922 has 98 MA's), (54, 20003), (66, 20030), (Start: 70 @20051 has 1 MA's), (90, 20111), (94, 20135), (Start: 95 @20141 has 1 MA's), (103, 20159), (106, 20171), (Start: 111 @20183 has 3 MA's), (114, 20195), (126, 20231), (132, 20255), (136, 20270), (139, 20279), (150, 20303), (155, 20318), (158, 20333), (213, 20417), (214, 20420), (223, 20441), (231, 20462), (233, 20471), (236, 20483), (241, 20492), (308, 20753), (315, 20822), (381, 21056),

Gene: StarStruck_46 Start: 35932, Stop: 36987, Start Num: 78

Candidate Starts for StarStruck_46:

(57, 35869), (Start: 78 @35932 has 34 MA's), (145, 36145), (213, 36304), (223, 36328), (298, 36616), (372, 36916), (381, 36961),

Gene: Stinger_28 Start: 31182, Stop: 32339, Start Num: 37

Candidate Starts for Stinger_28:

(4, 30657), (5, 30678), (Start: 37 @31182 has 98 MA's), (47, 31209), (66, 31290), (69, 31305), (71, 31317), (79, 31335), (Start: 111 @31443 has 3 MA's), (121, 31476), (125, 31485), (129, 31503), (136, 31530), (147, 31545), (150, 31551), (152, 31557), (160, 31581), (164, 31590), (168, 31599), (187, 31632), (201, 31665), (205, 31677), (208, 31683), (233, 31743), (236, 31755), (239, 31761), (263, 31827), (269, 31851), (271, 31860), (308, 32007), (343, 32160),

Gene: Stinson_29 Start: 23565, Stop: 24578, Start Num: 74

Candidate Starts for Stinson_29:

(Start: 74 @23565 has 99 MA's), (Start: 111 @23676 has 3 MA's), (150, 23790), (194, 23907), (209, 23949), (250, 24015), (252, 24024), (270, 24093), (292, 24189), (298, 24201), (331, 24354), (355, 24423), (374, 24519),

Gene: Strobilo_25 Start: 21282, Stop: 22277, Start Num: 76

Candidate Starts for Strobilo_25:

(47, 21198), (Start: 76 @21282 has 65 MA's), (99, 21363), (109, 21387), (129, 21447), (148, 21501), (150, 21507), (187, 21609), (188, 21612), (206, 21660), (209, 21666), (249, 21729), (250, 21732), (261, 21774), (272, 21816), (290, 21900), (308, 21957), (379, 22254),

Gene: Stuck_25 Start: 21224, Stop: 22435, Start Num: 37

Candidate Starts for Stuck_25:

(Start: 37 @21224 has 98 MA's), (54, 21305), (Start: 70 @21353 has 1 MA's), (80, 21383), (90, 21413), (92, 21422), (94, 21437), (Start: 95 @21443 has 1 MA's), (103, 21461), (Start: 111 @21485 has 3 MA's), (114, 21497), (126, 21533), (136, 21572), (139, 21581), (150, 21605), (156, 21626), (158, 21635), (191, 21722), (198, 21743), (213, 21779), (214, 21782), (223, 21803), (236, 21845), (270, 21962), (276, 21998), (277, 22004), (308, 22109),

Gene: Sukkupi_46 Start: 34612, Stop: 35703, Start Num: 78

Candidate Starts for Sukkupi_46:

(Start: 78 @34612 has 34 MA's), (88, 34645), (117, 34741), (182, 34924), (204, 34993), (250, 35131), (253, 35143), (254, 35146),

Gene: Sulley_28 Start: 23289, Stop: 24302, Start Num: 74

Candidate Starts for Sulley_28:

(Start: 74 @23289 has 99 MA's), (Start: 111 @23400 has 3 MA's), (150, 23514), (194, 23631), (217, 23685), (250, 23739), (270, 23817), (292, 23913), (298, 23925), (304, 23955), (308, 23964), (331, 24078), (355, 24147),

Gene: Sunflower1121_27 Start: 22555, Stop: 23616, Start Num: 76

Candidate Starts for Sunflower1121_27:

(47, 22465), (Start: 76 @22555 has 65 MA's), (102, 22636), (109, 22654), (144, 22762), (150, 22774), (156, 22795), (194, 22891), (240, 23005), (249, 23056), (275, 23173), (298, 23245), (308, 23284), (333, 23404), (355, 23473),

Gene: SuperSulley_46 Start: 36118, Stop: 37173, Start Num: 78

Candidate Starts for SuperSulley_46:

(Start: 78 @36118 has 34 MA's), (145, 36331), (223, 36514), (298, 36802), (381, 37147),

Gene: SwainyDoc_33 Start: 32217, Stop: 33419, Start Num: 37

Candidate Starts for SwainyDoc_33:

(Start: 37 @32217 has 98 MA's), (49, 32250), (84, 32394), (89, 32403), (91, 32412), (101, 32451), (105, 32460), (Start: 111 @32478 has 3 MA's), (116, 32496), (123, 32514), (125, 32520), (128, 32532), (132, 32550), (136, 32565), (150, 32598), (158, 32625), (177, 32670), (204, 32751), (218, 32778), (225, 32796), (232, 32814), (246, 32856), (252, 32880), (272, 32955), (276, 32985), (292, 33045), (298, 33057), (301, 33075), (318, 33177), (355, 33282), (357, 33288), (359, 33306), (380, 33393),

Gene: SynergyX_33 Start: 32223, Stop: 33425, Start Num: 37

Candidate Starts for SynergyX_33:

(Start: 37 @32223 has 98 MA's), (49, 32256), (84, 32400), (89, 32409), (91, 32418), (101, 32457), (105, 32466), (Start: 111 @32484 has 3 MA's), (116, 32502), (123, 32520), (125, 32526), (128, 32538), (132, 32556), (136, 32571), (150, 32604), (158, 32631), (177, 32676), (204, 32757), (218, 32784), (225, 32802), (232, 32820), (246, 32862), (252, 32886), (272, 32961), (276, 32991), (292, 33051), (298, 33063), (301, 33081), (318, 33183), (355, 33288), (357, 33294), (359, 33312), (380, 33399),

Gene: Syra333_28 Start: 22645, Stop: 23640, Start Num: 76

Candidate Starts for Syra333_28:

(47, 22555), (Start: 76 @22645 has 65 MA's), (109, 22744), (Start: 111 @22750 has 3 MA's), (160, 22900), (194, 22981), (270, 23167), (271, 23170), (289, 23254), (292, 23263), (303, 23299), (343, 23449), (378, 23599), (381, 23617),

Gene: TBond007_28 Start: 23723, Stop: 24787, Start Num: 76

Candidate Starts for TBond007_28:

(6, 23171), (8, 23237), (9, 23300), (12, 23333), (16, 23375), (28, 23534), (47, 23633), (56, 23690), (Start: 76 @23723 has 65 MA's), (122, 23855), (124, 23861), (144, 23930), (148, 23936), (166, 23996), (178, 24017), (183, 24032), (216, 24110), (270, 24302), (275, 24338), (288, 24386), (301, 24428), (331, 24554),

Gene: TClif_28 Start: 22714, Stop: 23739, Start Num: 76

Candidate Starts for TClif_28:

(Start: 76 @22714 has 65 MA's), (107, 22813), (109, 22816), (129, 22876), (142, 22921), (156, 22957), (188, 23041), (206, 23089), (251, 23173), (259, 23197), (271, 23248), (288, 23329), (356, 23581), (364, 23620), (381, 23716),

Gene: TM4_25 Start: 21422, Stop: 22426, Start Num: 76

Candidate Starts for TM4_25:

(Start: 76 @21422 has 65 MA's), (109, 21527), (129, 21587), (131, 21596), (148, 21641), (150, 21647), (166, 21701), (189, 21755), (216, 21815), (230, 21848), (250, 21872), (271, 21953), (272, 21956), (290, 22040), (301, 22076), (379, 22403),

Gene: Tachez_28 Start: 23285, Stop: 24298, Start Num: 74

Candidate Starts for Tachez_28:

(10, 22841), (23, 22988), (60, 23240), (Start: 74 @23285 has 99 MA's), (Start: 111 @23396 has 3 MA's), (150, 23510), (194, 23627), (209, 23669), (217, 23681), (250, 23735), (270, 23813), (292, 23909), (298, 23921), (304, 23951), (308, 23960), (331, 24074), (355, 24143),

Gene: TaiwanKao_29 Start: 23407, Stop: 24309, Start Num: 111

Candidate Starts for TaiwanKao_29:

(60, 23251), (Start: 74 @23296 has 99 MA's), (Start: 111 @23407 has 3 MA's), (150, 23521), (194, 23638), (209, 23680), (217, 23692), (250, 23746), (270, 23824), (288, 23908), (292, 23920), (298, 23932), (308, 23971), (324, 24061), (374, 24250),

Gene: Tapioca_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Tapioca_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Teejan_24 Start: 22861, Stop: 23907, Start Num: 63

Candidate Starts for Teejan_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: Tessdabest_21 Start: 20220, Stop: 21434, Start Num: 65

Candidate Starts for Tessdabest_21:

(18, 19890), (32, 20088), (Start: 63 @20217 has 6 MA's), (Start: 65 @20220 has 16 MA's), (142, 20481), (202, 20652), (255, 20802), (266, 20841), (287, 20943), (296, 20985), (370, 21357),

Gene: Tierra_28 Start: 23391, Stop: 24452, Start Num: 76

Candidate Starts for Tierra_28:

(Start: 76 @23391 has 65 MA's), (100, 23469), (102, 23472), (109, 23490), (125, 23532), (144, 23598), (156, 23631), (194, 23727), (198, 23739), (240, 23841), (249, 23892), (275, 24009), (336, 24252), (340, 24270), (355, 24309),

Gene: Tigress9_28 Start: 22638, Stop: 23633, Start Num: 76

Candidate Starts for Tigress9_28:

(47, 22548), (Start: 76 @22638 has 65 MA's), (109, 22737), (Start: 111 @22743 has 3 MA's), (160, 22893), (194, 22974), (201, 22998), (270, 23160), (271, 23163), (289, 23247), (303, 23292), (373, 23571), (378, 23592), (381, 23610),

Gene: TingHuaYa_28 Start: 22494, Stop: 23501, Start Num: 76

Candidate Starts for TingHuaYa_28:

(Start: 76 @22494 has 65 MA's), (108, 22593), (150, 22713), (156, 22734), (194, 22830), (250, 22938), (270, 23016), (292, 23112), (298, 23124), (308, 23163), (353, 23334), (355, 23346),

Gene: TiniBug_28 Start: 23281, Stop: 24294, Start Num: 74

Candidate Starts for TiniBug_28:

(60, 23236), (Start: 74 @23281 has 99 MA's), (Start: 111 @23392 has 3 MA's), (150, 23506), (194, 23623), (217, 23677), (250, 23731), (270, 23809), (292, 23905), (298, 23917), (308, 23956), (312, 23992), (330, 24061), (355, 24139), (374, 24235),

Gene: TinyTerror_33 Start: 32208, Stop: 33410, Start Num: 37

Candidate Starts for TinyTerror_33:

(Start: 37 @32208 has 98 MA's), (84, 32385), (89, 32394), (91, 32403), (101, 32442), (105, 32451), (Start: 111 @32469 has 3 MA's), (127, 32520), (129, 32529), (132, 32541), (133, 32547), (136, 32556), (155, 32601), (158, 32616), (177, 32661), (191, 32700), (200, 32730), (205, 32745), (213, 32757), (223, 32781), (237, 32826), (246, 32847), (252, 32871), (272, 32946), (276, 32976), (292, 33036), (298, 33048), (301, 33066), (318, 33168), (355, 33273), (357, 33279), (359, 33297), (380, 33384),

Gene: Tiri_28 Start: 23328, Stop: 24341, Start Num: 74

Candidate Starts for Tiri_28:

(10, 22884), (60, 23283), (Start: 74 @23328 has 99 MA's), (Start: 111 @23439 has 3 MA's), (150, 23553), (194, 23670), (209, 23712), (217, 23724), (250, 23778), (270, 23856), (288, 23940), (292, 23952), (298, 23964), (308, 24003), (331, 24117), (355, 24186),

Gene: Topper_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Topper_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Torres_24 Start: 22900, Stop: 23907, Start Num: 76

Candidate Starts for Torres_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: Tortoise12_22 Start: 20223, Stop: 21437, Start Num: 65

Candidate Starts for Tortoise12_22:

(18, 19893), (32, 20091), (Start: 63 @20220 has 6 MA's), (Start: 65 @20223 has 16 MA's), (142, 20484), (202, 20655), (255, 20805), (266, 20844), (287, 20946), (296, 20988), (370, 21360),

Gene: Tracker_44 Start: 34752, Stop: 35810, Start Num: 78

Candidate Starts for Tracker_44:

(1, 33312), (2, 33609), (3, 33840), (7, 34209), (33, 34587), (38, 34602), (44, 34620), (Start: 78 @34752 has 34 MA's), (199, 35097), (222, 35148), (240, 35196),

Gene: TreyKay_28 Start: 23290, Stop: 24303, Start Num: 74

Candidate Starts for TreyKay_28:

(60, 23245), (Start: 74 @23290 has 99 MA's), (Start: 111 @23401 has 3 MA's), (150, 23515), (194, 23632), (209, 23674), (217, 23686), (250, 23740), (270, 23818), (288, 23902), (292, 23914), (298, 23926), (308, 23965), (374, 24244),

Gene: TriFive_22 Start: 22247, Stop: 23464, Start Num: 40

Candidate Starts for TriFive_22:

(Start: 40 @22247 has 19 MA's), (64, 22349), (68, 22361), (71, 22379), (Start: 76 @22388 has 65 MA's), (87, 22427), (Start: 95 @22463 has 1 MA's), (101, 22478), (104, 22484), (113, 22514), (114, 22517), (126, 22553), (129, 22565), (147, 22616), (149, 22619), (169, 22679), (181, 22706), (186, 22721), (188, 22727), (192, 22739), (216, 22799), (225, 22823), (246, 22883), (271, 22979), (276, 23012), (298, 23084), (303, 23108), (359, 23336), (363, 23348),

Gene: TribbleTrouble_27 Start: 23874, Stop: 24935, Start Num: 76

Candidate Starts for TribbleTrouble_27:

(47, 23769), (Start: 76 @23874 has 65 MA's), (86, 23907), (97, 23946), (117, 23997), (122, 24006), (129, 24033), (144, 24081), (166, 24147), (183, 24183), (188, 24198), (196, 24216), (197, 24219), (201, 24234), (238, 24321), (275, 24492), (355, 24792),

Gene: Trice_24 Start: 22861, Stop: 23907, Start Num: 63

Candidate Starts for Trice_24:

(59, 22849), (Start: 63 @22861 has 6 MA's), (Start: 76 @22900 has 65 MA's), (94, 22960), (122, 23032), (136, 23086), (144, 23107), (194, 23236), (211, 23281), (214, 23284), (249, 23341), (250, 23344), (262, 23389), (271, 23425), (292, 23521), (298, 23533), (319, 23653), (361, 23785),

Gene: TruffulaTree_28 Start: 23319, Stop: 24332, Start Num: 74

Candidate Starts for TruffulaTree_28:

(10, 22875), (60, 23274), (Start: 74 @23319 has 99 MA's), (150, 23544), (194, 23661), (209, 23703), (217, 23715), (250, 23769), (270, 23847), (292, 23943), (298, 23955), (304, 23985), (308, 23994), (331, 24108), (355, 24177),

Gene: Twitch_28 Start: 23356, Stop: 24369, Start Num: 74

Candidate Starts for Twitch_28:

(10, 22912), (60, 23311), (Start: 74 @23356 has 99 MA's), (150, 23581), (194, 23698), (209, 23740), (217, 23752), (250, 23806), (270, 23884), (292, 23980), (304, 24022), (308, 24031), (331, 24145), (355, 24214),

Gene: Tydolla_33 Start: 32957, Stop: 34159, Start Num: 37

Candidate Starts for Tydolla_33:

(Start: 37 @32957 has 98 MA's), (49, 32990), (84, 33134), (89, 33143), (91, 33152), (101, 33191), (105, 33200), (Start: 111 @33218 has 3 MA's), (127, 33269), (129, 33278), (132, 33290), (133, 33296), (136, 33305), (155, 33350), (158, 33365), (177, 33410), (191, 33449), (200, 33479), (205, 33494), (213, 33506), (223, 33530), (237, 33575), (246, 33596), (252, 33620), (272, 33695), (276, 33725), (292, 33785), (298, 33797), (301, 33815), (318, 33917), (355, 34022), (357, 34028), (359, 34046), (380, 34133),

Gene: Tyson_21 Start: 21688, Stop: 22860, Start Num: 41

Candidate Starts for Tyson_21:

(Start: 39 @21685 has 7 MA's), (Start: 41 @21688 has 14 MA's), (Start: 70 @21814 has 1 MA's), (83, 21856), (87, 21868), (89, 21871), (Start: 95 @21904 has 1 MA's), (99, 21916), (116, 21964), (123, 21982), (132, 22018), (136, 22033), (156, 22084), (165, 22114), (184, 22156), (215, 22180), (230, 22216), (232, 22222), (241, 22249), (246, 22267), (272, 22360), (273, 22363), (290, 22447), (321, 22585), (330, 22603), (355, 22687),

Gene: UPIE_21 Start: 21683, Stop: 22858, Start Num: 39

Candidate Starts for UPIE_21:

(Start: 39 @21683 has 7 MA's), (Start: 41 @21686 has 14 MA's), (Start: 70 @21812 has 1 MA's), (83, 21854), (87, 21866), (89, 21869), (Start: 95 @21902 has 1 MA's), (99, 21914), (116, 21962), (123, 21980), (132, 22016), (136, 22031), (156, 22082), (165, 22112), (184, 22154), (215, 22178), (230, 22214), (232, 22220), (241, 22247), (246, 22265), (272, 22358), (273, 22361), (290, 22445), (321, 22583), (330, 22601), (355, 22685),

Gene: Unicorn_28 Start: 22720, Stop: 23781, Start Num: 76

Candidate Starts for Unicorn_28:

(47, 22630), (56, 22687), (Start: 76 @22720 has 65 MA's), (109, 22819), (144, 22927), (150, 22939), (156, 22960), (194, 23056), (240, 23170), (249, 23221), (275, 23338), (336, 23581), (340, 23599), (355, 23638),

Gene: Urkel_28 Start: 23284, Stop: 24297, Start Num: 74

Candidate Starts for Urkel_28:

(60, 23239), (Start: 74 @23284 has 99 MA's), (Start: 111 @23395 has 3 MA's), (150, 23509), (194, 23626), (209, 23668), (217, 23680), (250, 23734), (270, 23812), (292, 23908), (298, 23920), (308, 23959), (312, 23995), (355, 24142), (374, 24238),

Gene: Validus_28 Start: 22666, Stop: 23631, Start Num: 74

Candidate Starts for Validus_28:

(62, 22630), (Start: 74 @22666 has 99 MA's), (Start: 78 @22672 has 34 MA's), (Start: 111 @22780 has 3 MA's), (122, 22807), (136, 22861), (162, 22936), (199, 23029), (224, 23083), (270, 23197), (271, 23200), (290, 23284), (308, 23341), (318, 23395), (333, 23437), (349, 23476),

Gene: Vanisoa_31 Start: 24621, Stop: 25826, Start Num: 39

Candidate Starts for Vanisoa_31:

(Start: 39 @24621 has 7 MA's), (82, 24786), (84, 24798), (87, 24804), (89, 24807), (119, 24909), (129, 24942), (155, 25014), (161, 25038), (172, 25062), (201, 25146), (270, 25353), (271, 25356), (276, 25389), (308, 25500), (345, 25656),

Gene: Veliki_28 Start: 23359, Stop: 24372, Start Num: 74

Candidate Starts for Veliki_28:

(10, 22915), (23, 23062), (60, 23314), (Start: 74 @23359 has 99 MA's), (Start: 111 @23470 has 3 MA's), (150, 23584), (194, 23701), (209, 23743), (217, 23755), (250, 23809), (270, 23887), (292, 23983), (298, 23995), (304, 24025), (308, 24034), (331, 24148), (355, 24217),

Gene: Velveteen_20 Start: 20087, Stop: 21244, Start Num: 34

Candidate Starts for Velveteen_20:

(Start: 34 @20087 has 3 MA's), (Start: 37 @20090 has 98 MA's), (Start: 70 @20219 has 1 MA's), (80, 20249), (90, 20279), (92, 20288), (94, 20303), (103, 20327), (Start: 111 @20351 has 3 MA's), (114, 20363), (136, 20438), (139, 20447), (150, 20471), (158, 20501), (213, 20585), (214, 20588), (223, 20609), (289, 20858), (292, 20867), (301, 20897), (308, 20918), (315, 20987), (381, 21221),

Gene: Vincenzo_31 Start: 33326, Stop: 34483, Start Num: 37

Candidate Starts for Vincenzo_31:

(Start: 37 @33326 has 98 MA's), (58, 33419), (66, 33434), (69, 33449), (71, 33461), (79, 33479), (105, 33569), (121, 33620), (125, 33629), (129, 33647), (136, 33674), (147, 33689), (150, 33695), (152, 33701), (164, 33734), (168, 33743), (187, 33776), (201, 33809), (205, 33821), (222, 33854), (227, 33869), (236, 33899), (239, 33905), (263, 33971), (269, 33995), (271, 34004), (308, 34151), (343, 34304),

Gene: VioletZ_30 Start: 32678, Stop: 33835, Start Num: 37

Candidate Starts for VioletZ_30:

(Start: 37 @32678 has 98 MA's), (58, 32771), (66, 32786), (69, 32801), (71, 32813), (79, 32831), (91, 32873), (105, 32921), (121, 32972), (125, 32981), (129, 32999), (136, 33026), (147, 33041), (150, 33047), (152, 33053), (155, 33059), (164, 33086), (168, 33095), (187, 33128), (201, 33161), (227, 33221), (236, 33251), (239, 33257), (258, 33302), (271, 33356), (272, 33359), (308, 33503), (343, 33656),

Gene: Waleliano_30 Start: 32605, Stop: 33762, Start Num: 37

Candidate Starts for Waleliano_30:

(Start: 37 @32605 has 98 MA's), (58, 32698), (66, 32713), (69, 32728), (71, 32740), (79, 32758), (91, 32800), (121, 32899), (125, 32908), (129, 32926), (136, 32953), (147, 32968), (150, 32974), (152, 32980), (155, 32986), (164, 33013), (168, 33022), (187, 33055), (201, 33088), (227, 33148), (236, 33178), (239, 33184), (248, 33205), (258, 33229), (271, 33283), (272, 33286), (343, 33583),

Gene: Wamburgxpress_21 Start: 21701, Stop: 22873, Start Num: 41

Candidate Starts for Wamburgxpress_21:

(Start: 39 @21698 has 7 MA's), (Start: 41 @21701 has 14 MA's), (Start: 70 @21827 has 1 MA's), (83, 21869), (87, 21881), (89, 21884), (Start: 95 @21917 has 1 MA's), (99, 21929), (116, 21977), (123, 21995), (132, 22031), (136, 22046), (156, 22097), (165, 22127), (184, 22169), (215, 22193), (230, 22229), (232, 22235), (241, 22262), (246, 22280), (272, 22373), (273, 22376), (290, 22460), (321, 22598), (330, 22616), (355, 22700),

Gene: Wheezy_44 Start: 34957, Stop: 36015, Start Num: 78

Candidate Starts for Wheezy_44:

(1, 33517), (2, 33814), (3, 34045), (7, 34414), (33, 34792), (38, 34807), (44, 34825), (Start: 78 @34957 has 34 MA's), (199, 35302), (222, 35353), (240, 35401),

Gene: WhoseManz_46 Start: 32658, Stop: 33761, Start Num: 78

Candidate Starts for WhoseManz_46:

(Start: 78 @32658 has 34 MA's), (88, 32691), (117, 32787), (182, 32970), (250, 33177), (252, 33186), (270, 33255), (271, 33258), (288, 33342), (305, 33393), (330, 33495), (354, 33579), (355, 33588), (356, 33591),

Gene: Wintermute_29 Start: 24585, Stop: 25589, Start Num: 76

Candidate Starts for Wintermute_29:

(Start: 76 @24585 has 65 MA's), (Start: 95 @24654 has 1 MA's), (131, 24753), (148, 24798), (166, 24858), (172, 24867), (186, 24903), (201, 24948), (211, 24969), (216, 24975), (217, 24978), (270, 25110), (271, 25113), (301, 25236), (308, 25257), (372, 25524),

Gene: Wyatt2_21 Start: 21688, Stop: 22860, Start Num: 41

Candidate Starts for Wyatt2_21:

(Start: 39 @21685 has 7 MA's), (Start: 41 @21688 has 14 MA's), (Start: 70 @21814 has 1 MA's), (83, 21856), (87, 21868), (89, 21871), (Start: 95 @21904 has 1 MA's), (99, 21916), (116, 21964), (123, 21982), (132, 22018), (136, 22033), (156, 22084), (165, 22114), (184, 22156), (215, 22180), (230, 22216), (232, 22222), (241, 22249), (246, 22267), (272, 22360), (273, 22363), (290, 22447), (321, 22585), (330, 22603), (355, 22687),

Gene: Xerxes_22 Start: 20220, Stop: 21434, Start Num: 65

Candidate Starts for Xerxes_22:

(18, 19890), (32, 20088), (Start: 63 @20217 has 6 MA's), (Start: 65 @20220 has 16 MA's), (142, 20481), (202, 20652), (255, 20802), (266, 20841), (287, 20943), (296, 20985), (370, 21357),

Gene: Ximenita_29 Start: 22823, Stop: 23818, Start Num: 76

Candidate Starts for Ximenita_29:

(47, 22733), (Start: 76 @22823 has 65 MA's), (109, 22922), (Start: 111 @22928 has 3 MA's), (160, 23078), (194, 23159), (270, 23345), (271, 23348), (289, 23432), (343, 23627), (373, 23756), (378, 23777), (381, 23795),

Gene: Xincheng_29 Start: 32060, Stop: 33217, Start Num: 37

Candidate Starts for Xincheng_29:

(Start: 37 @32060 has 98 MA's), (58, 32153), (66, 32168), (69, 32183), (71, 32195), (79, 32213), (84, 32237), (91, 32255), (93, 32270), (121, 32354), (125, 32363), (129, 32381), (147, 32423), (150, 32429), (152, 32435), (155, 32441), (164, 32468), (168, 32477), (187, 32510), (201, 32543), (208, 32561), (227, 32603), (236, 32633), (239, 32639), (271, 32738), (272, 32741), (299, 32852), (308, 32885), (343, 33038), (353, 33062), (355, 33074),

Gene: Xula_21 Start: 20946, Stop: 22157, Start Num: 37

Candidate Starts for Xula_21:

(Start: 37 @20946 has 98 MA's), (45, 20970), (54, 21027), (Start: 70 @21075 has 1 MA's), (90, 21135), (92, 21144), (94, 21159), (103, 21183), (Start: 111 @21207 has 3 MA's), (114, 21219), (126, 21255), (136, 21294), (139, 21303), (150, 21327), (158, 21357), (190, 21441), (191, 21444), (198, 21465), (213, 21501), (214, 21504), (223, 21525), (236, 21567), (270, 21684), (276, 21720), (277, 21726), (308, 21831), (318, 21912),

Gene: Y10_29 Start: 24585, Stop: 25589, Start Num: 76

Candidate Starts for Y10_29:

(Start: 76 @24585 has 65 MA's), (Start: 95 @24654 has 1 MA's), (131, 24753), (148, 24798), (150, 24804), (166, 24858), (172, 24867), (186, 24903), (201, 24948), (211, 24969), (216, 24975), (217, 24978), (270, 25110), (271, 25113), (301, 25236), (308, 25257), (372, 25524),

Gene: Y2_29 Start: 24585, Stop: 25589, Start Num: 76

Candidate Starts for Y2_29:

(Start: 76 @24585 has 65 MA's), (Start: 95 @24654 has 1 MA's), (131, 24753), (148, 24798), (150, 24804), (166, 24858), (172, 24867), (186, 24903), (201, 24948), (211, 24969), (216, 24975), (217, 24978), (270, 25110), (271, 25113), (301, 25236), (308, 25257), (372, 25524),

Gene: Yahalom_33 Start: 32232, Stop: 33434, Start Num: 37

Candidate Starts for Yahalom_33:

(Start: 37 @32232 has 98 MA's), (49, 32265), (84, 32409), (89, 32418), (91, 32427), (101, 32466), (105, 32475), (Start: 111 @32493 has 3 MA's), (116, 32511), (123, 32529), (125, 32535), (128, 32547), (132, 32565), (136, 32580), (150, 32613), (158, 32640), (177, 32685), (204, 32766), (218, 32793), (225, 32811), (232, 32829), (246, 32871), (276, 33000), (301, 33090), (318, 33192), (338, 33249), (341, 33258), (355, 33297), (367, 33369), (381, 33411),

Gene: YasnayaPolyana_29 Start: 24655, Stop: 25590, Start Num: 95

Candidate Starts for YasnayaPolyana_29:

(Start: 76 @24586 has 65 MA's), (Start: 95 @24655 has 1 MA's), (131, 24754), (148, 24799), (166, 24859), (172, 24868), (186, 24904), (201, 24949), (211, 24970), (216, 24976), (217, 24979), (270, 25111), (271, 25114), (301, 25237), (308, 25258), (372, 25525),

Gene: Yinz_33 Start: 32255, Stop: 33457, Start Num: 37

Candidate Starts for Yinz_33:

(Start: 37 @32255 has 98 MA's), (49, 32288), (84, 32432), (89, 32441), (91, 32450), (101, 32489), (105, 32498), (Start: 111 @32516 has 3 MA's), (116, 32534), (123, 32552), (125, 32558), (128, 32570), (132, 32588), (136, 32603), (150, 32636), (158, 32663), (177, 32708), (204, 32789), (218, 32816), (225, 32834), (232, 32852), (246, 32894), (276, 33023), (280, 33032), (301, 33113), (318, 33215), (338, 33272), (341, 33281), (355, 33320), (367, 33392), (381, 33434),

Gene: Yndexa_46 Start: 34612, Stop: 35703, Start Num: 78

Candidate Starts for Yndexa_46:

(Start: 78 @34612 has 34 MA's), (88, 34645), (117, 34741), (182, 34924), (204, 34993), (250, 35131), (253, 35143), (254, 35146),

Gene: YoureAdopted_27 Start: 23292, Stop: 24305, Start Num: 74

Candidate Starts for YoureAdopted_27:

(10, 22848), (23, 22995), (60, 23247), (Start: 74 @23292 has 99 MA's), (Start: 111 @23403 has 3 MA's), (150, 23517), (194, 23634), (209, 23676), (217, 23688), (250, 23742), (270, 23820), (292, 23916), (298, 23928), (304, 23958), (308, 23967), (311, 24000), (331, 24081), (355, 24150),

Gene: Yuna_29 Start: 23206, Stop: 24168, Start Num: 74

Candidate Starts for Yuna_29:

(Start: 74 @23206 has 99 MA's), (163, 23476), (167, 23485), (182, 23518), (186, 23530), (189, 23539), (199, 23566), (259, 23689), (271, 23740), (286, 23809), (293, 23830), (326, 23950),

Gene: Yunkel11_28 Start: 22542, Stop: 23603, Start Num: 74

Candidate Starts for Yunkel11_28:

(Start: 74 @22542 has 99 MA's), (Start: 111 @22656 has 3 MA's), (150, 22770), (156, 22791), (189, 22878), (198, 22899), (199, 22905), (255, 23013), (270, 23073), (294, 23193), (295, 23199), (297, 23205), (311, 23295), (347, 23421), (351, 23436),

Gene: Zabiza_28 Start: 23323, Stop: 24336, Start Num: 74

Candidate Starts for Zabiza_28:

(10, 22879), (23, 23026), (60, 23278), (Start: 74 @23323 has 99 MA's), (Start: 111 @23434 has 3 MA's), (150, 23548), (194, 23665), (209, 23707), (217, 23719), (250, 23773), (270, 23851), (292, 23947), (298, 23959), (304, 23989), (308, 23998), (331, 24112), (355, 24181),

Gene: Zaria_21 Start: 21702, Stop: 22874, Start Num: 41

Candidate Starts for Zaria_21:

(Start: 39 @21699 has 7 MA's), (Start: 41 @21702 has 14 MA's), (Start: 70 @21828 has 1 MA's), (83, 21870), (87, 21882), (89, 21885), (Start: 95 @21918 has 1 MA's), (99, 21930), (104, 21939), (116, 21978), (123, 21996), (132, 22032), (136, 22047), (156, 22098), (165, 22128), (184, 22170), (215, 22194), (230, 22230), (232, 22236), (241, 22263), (246, 22281), (272, 22374), (273, 22377), (290, 22461), (321, 22599), (330, 22617), (355, 22701),

Gene: Zavala_28 Start: 23298, Stop: 24311, Start Num: 74

Candidate Starts for Zavala_28:

(10, 22854), (60, 23253), (Start: 74 @23298 has 99 MA's), (150, 23523), (194, 23640), (209, 23682), (217, 23694), (250, 23748), (270, 23826), (292, 23922), (298, 23934), (304, 23964), (308, 23973), (331, 24087), (355, 24156),

Gene: Zemanar_31 Start: 32608, Stop: 33765, Start Num: 37

Candidate Starts for Zemanar_31:

(Start: 37 @32608 has 98 MA's), (58, 32701), (66, 32716), (69, 32731), (71, 32743), (79, 32761), (91, 32803), (121, 32902), (125, 32911), (129, 32929), (136, 32956), (147, 32971), (150, 32977), (152, 32983), (155, 32989), (164, 33016), (168, 33025), (187, 33058), (201, 33091), (227, 33151), (236, 33181), (239, 33187), (258, 33232), (271, 33286), (272, 33289), (308, 33433), (343, 33586),

Gene: ZoeJ_25 Start: 21223, Stop: 22245, Start Num: 76

Candidate Starts for ZoeJ_25:

(28, 21040), (47, 21139), (Start: 76 @21223 has 65 MA's), (109, 21325), (128, 21379), (129, 21385), (148, 21439), (150, 21445), (151, 21448), (180, 21526), (187, 21547), (188, 21550), (209, 21604), (272, 21754), (379, 22213), (381, 22222),