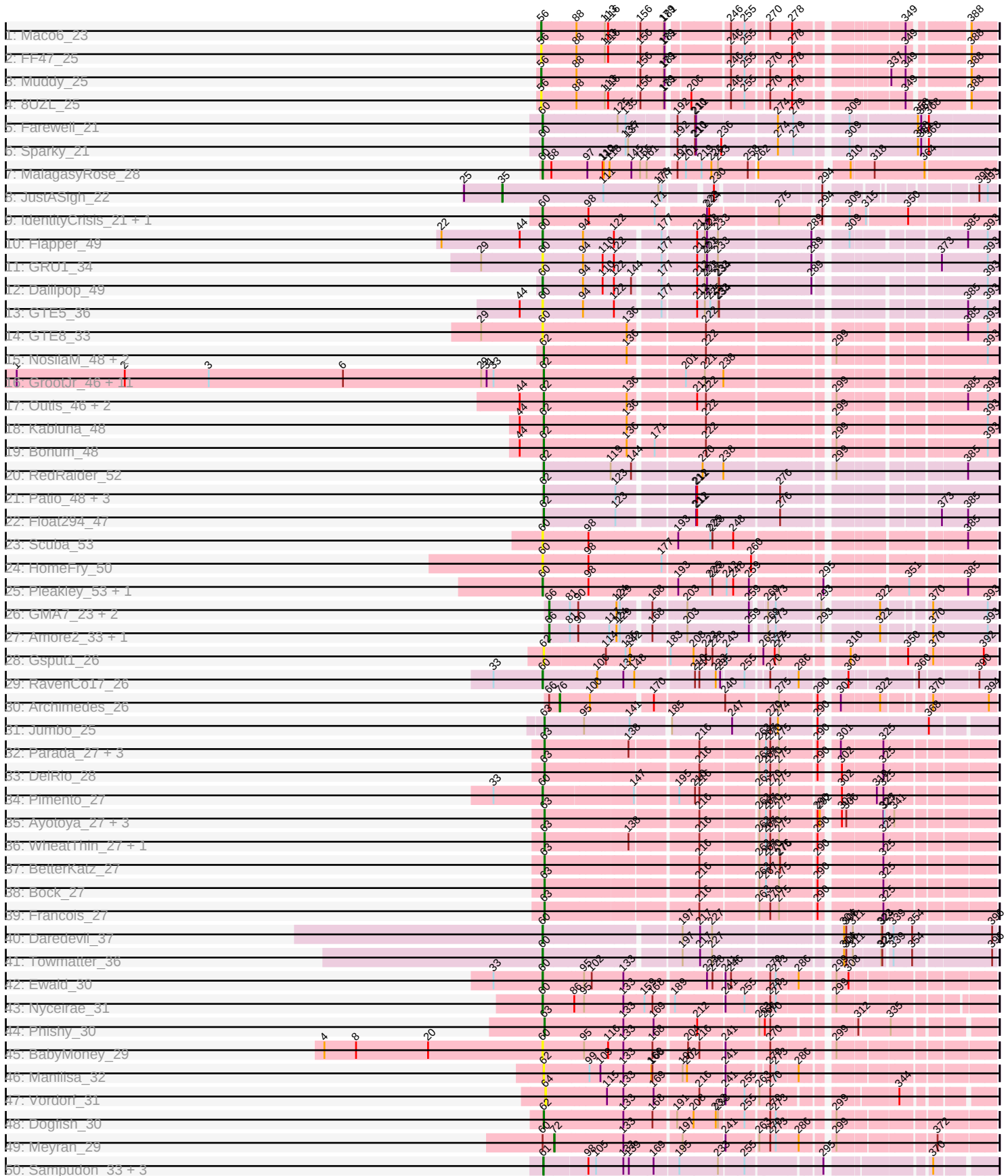
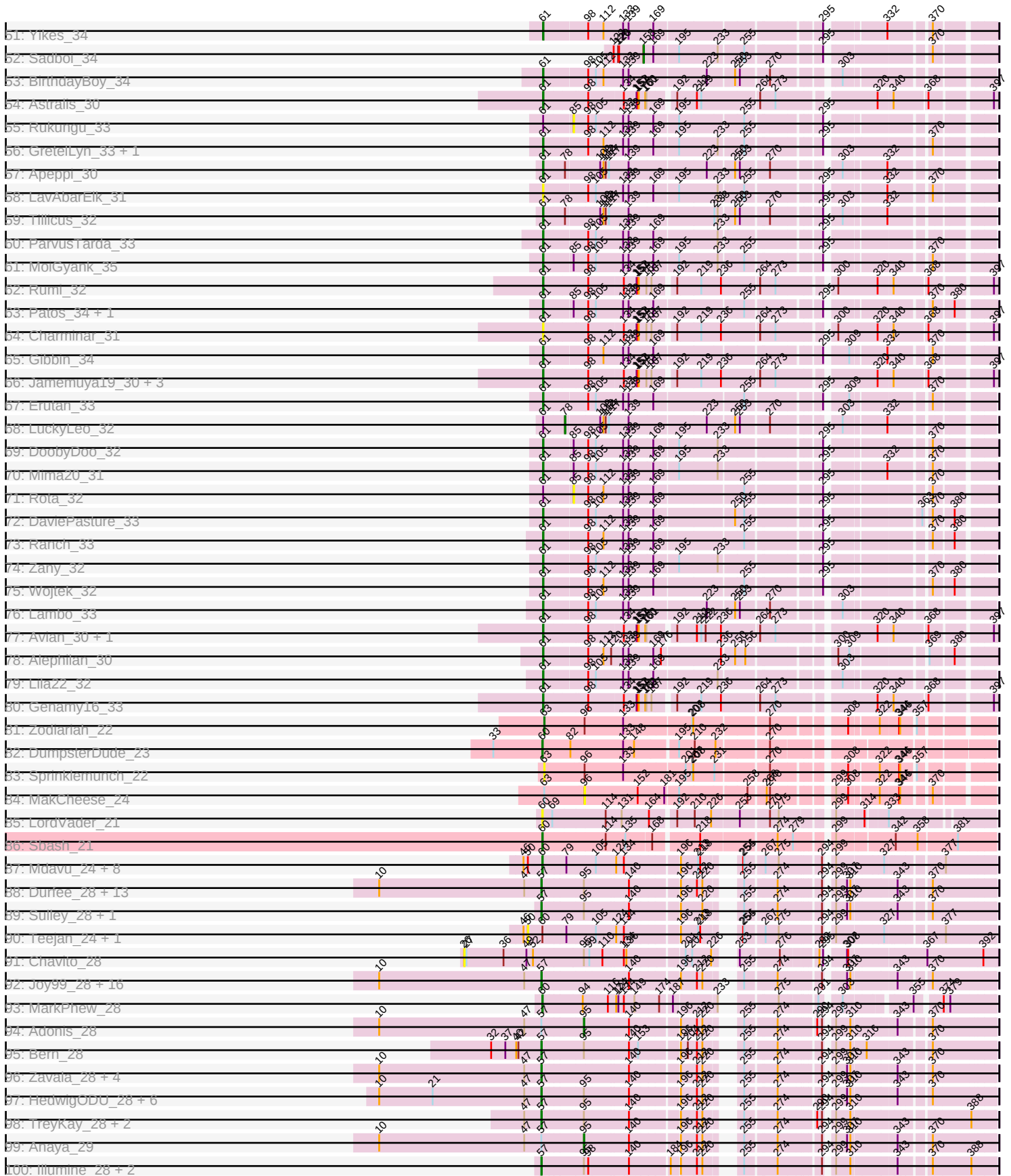


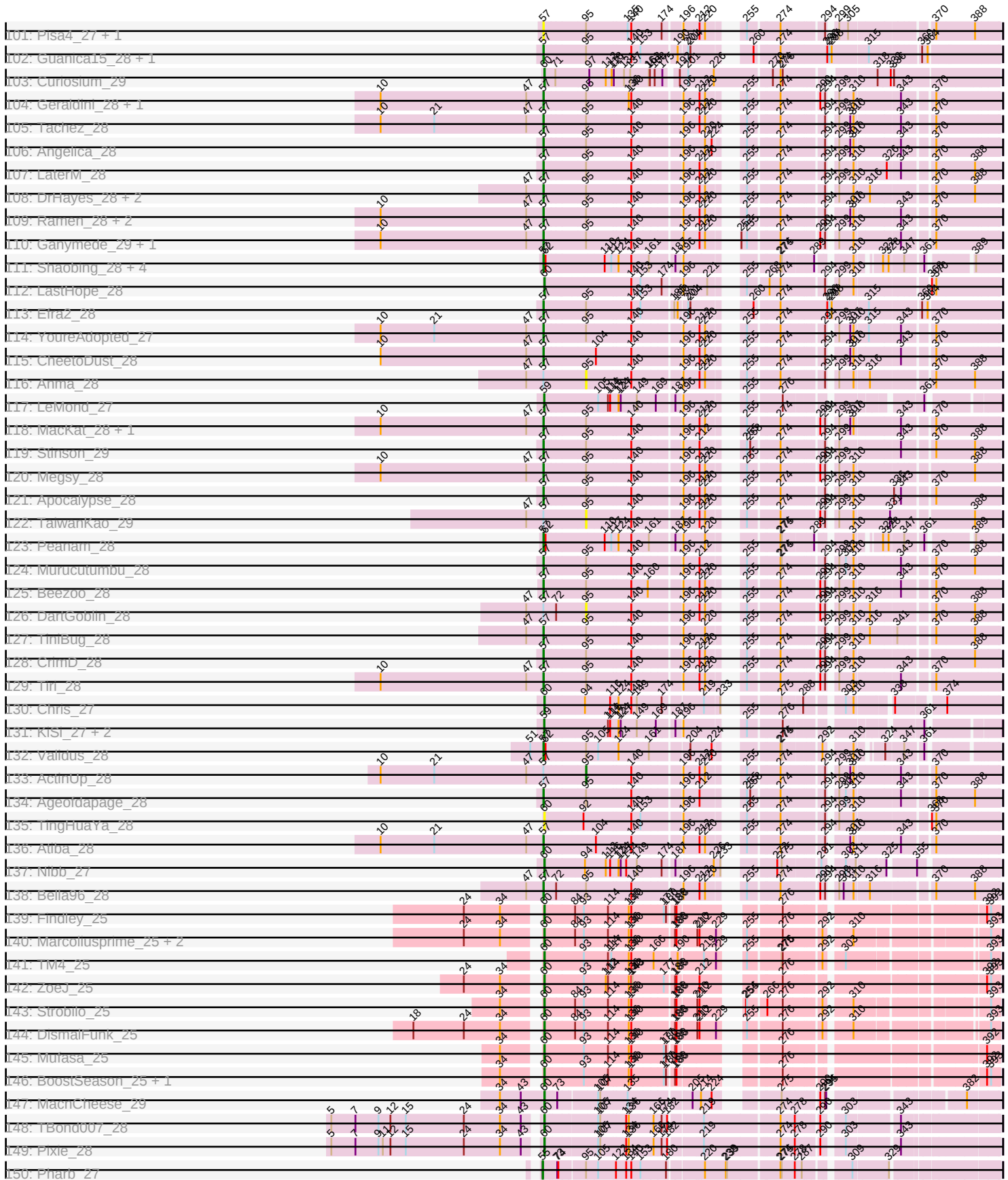
Pham 279983



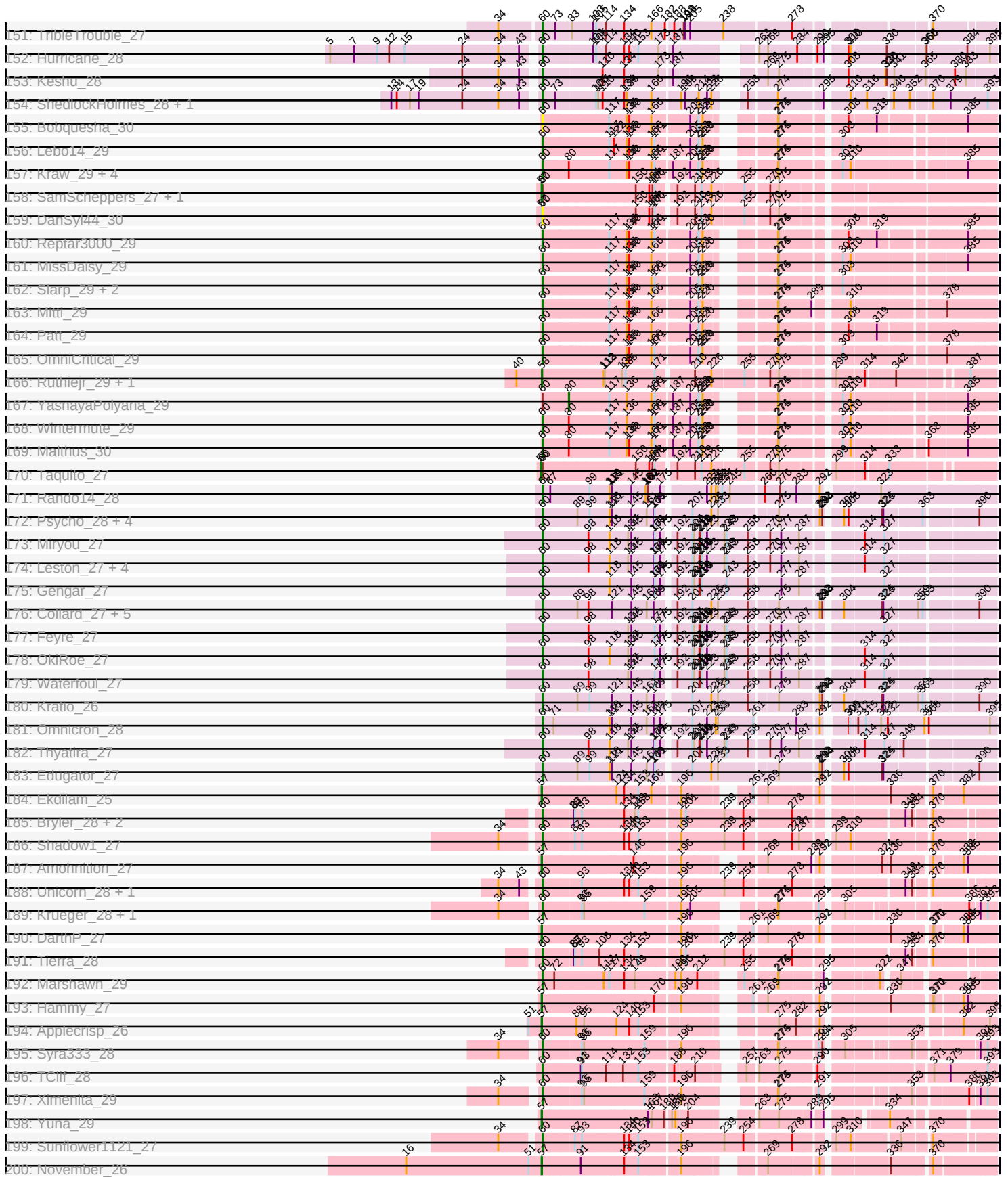
Pham 279983



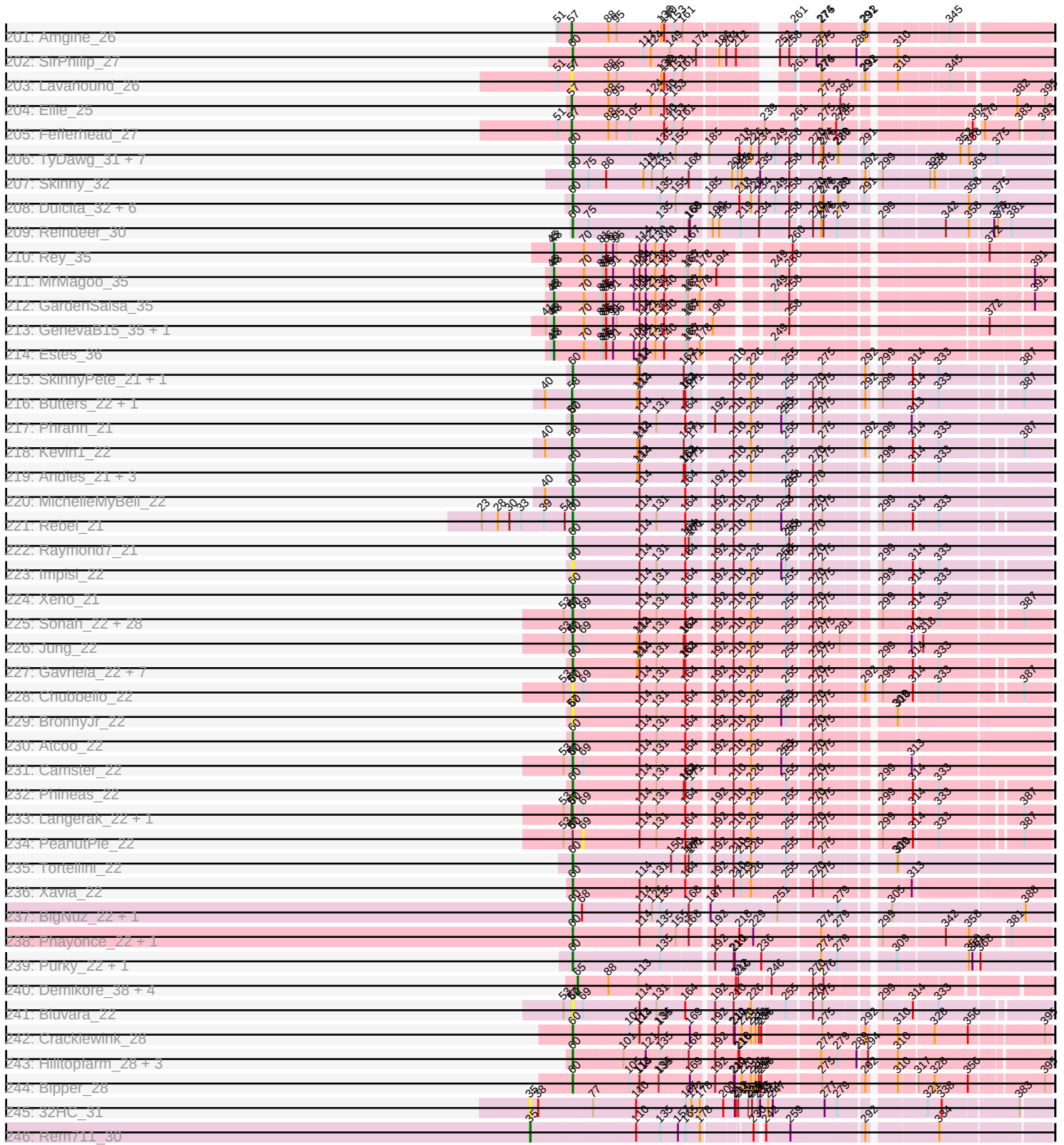
Pham 279983



Pham 279983



Pham 279983



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 279983 Report

This analysis was run 02/07/26 on database version 634.

Pham number 279983 has 447 members, 56 are drafts.

Phages represented in each track:

- Track 1 : Maco6_23
- Track 2 : FF47_25
- Track 3 : Muddy_25
- Track 4 : 8UZL_25
- Track 5 : Farewell_21
- Track 6 : Sparky_21
- Track 7 : MalagasyRose_28
- Track 8 : JustASigh_22
- Track 9 : IdentityCrisis_21, WST1_22
- Track 10 : Flapper_49
- Track 11 : GRU1_34
- Track 12 : Dalilpop_49
- Track 13 : GTE5_36
- Track 14 : GTE8_33
- Track 15 : NosilaM_48, Buggaboo_46, SuperSulley_46
- Track 16 : 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 17 : Outis_46, MerCougar_46, StarStruck_46
- Track 18 : Kabluna_48
- Track 19 : Bonum_48
- Track 20 : RedRaider_52
- Track 21 : Patio_48, Skysand_47, Ennea_51, Lollipop1437_50
- Track 22 : Float294_47
- Track 23 : Scuba_53
- Track 24 : HomeFry_50
- Track 25 : Pleakley_53, Fury_53
- Track 26 : GMA7_23, HayZem_32, Austin_33
- Track 27 : Amore2_33, GTE7_23
- Track 28 : Gsput1_26
- Track 29 : RavenCo17_26
- Track 30 : Archimedes_26
- Track 31 : Jumbo_25
- Track 32 : Parada_27, Brylie_27, Mulch_27, NancyRae_27
- Track 33 : DelRio_28
- Track 34 : Pimento_27
- Track 35 : Ayotoya_27, Hamood_27, Chop_27, GrandSlam_27

- Track 36 : WheatThin_27, Nadeem_27
- Track 37 : BetterKatz_27
- Track 38 : Bock_27
- Track 39 : Francois_27
- Track 40 : Daredevil_37
- Track 41 : Towmatter_36
- Track 42 : Ewald_30
- Track 43 : Nyceirae_31
- Track 44 : Phishy_30
- Track 45 : BabyMoney_29
- Track 46 : Manilisa_32
- Track 47 : Vordorf_31
- Track 48 : Dogfish_30
- Track 49 : Meyran_29
- Track 50 : Sampudon_33, GOATification_34, Fulcrum_34, Jalebi_32
- Track 51 : Yikes_34
- Track 52 : Sadboi_34
- Track 53 : BirthdayBoy_34
- Track 54 : Astralis_30
- Track 55 : Rukungu_33
- Track 56 : GretelLyn_33, OtterstedtS21_33
- Track 57 : Apeppi_30
- Track 58 : LavAbarElk_31
- Track 59 : Tillicus_32
- Track 60 : ParvusTarda_33
- Track 61 : MoiGyank_35
- Track 62 : Rumi_32
- Track 63 : Patos_34, NorManre_34
- Track 64 : Charminar_31
- Track 65 : Gibbin_34
- Track 66 : Jamemuya19_30, NovaSharks_32, Alyssamiracle_33, RazorC_31
- Track 67 : Erutan_33
- Track 68 : LuckyLeo_32
- Track 69 : DoobyDoo_32
- Track 70 : Mima20_31
- Track 71 : Rota_32
- Track 72 : DaviePasture_33
- Track 73 : Ranch_33
- Track 74 : Zany_32
- Track 75 : Wojtek_32
- Track 76 : Lambo_33
- Track 77 : Avian_30, Stormer_32
- Track 78 : Alephlan_30
- Track 79 : Lila22_32
- Track 80 : Genamy16_33
- Track 81 : Zodiariah_22
- Track 82 : DumpsterDude_23
- Track 83 : Sprinklemunch_22
- Track 84 : MakCheese_24
- Track 85 : LordVader_21
- Track 86 : Sbash_21
- Track 87 : Mdavu_24, Enkosi_24, Amelie_24, Nikao_24, LilPharaoh_24, Binglebops_24, Torres_24, SgtBeansprout_24, Nutello_24

- Track 88 : Durfee_28, Piatt_28, Boiiii_28, Pokerus_27, Padfoot_28, Asayake_28, AlishaPH_28, CaseJules_28, BaghaKamala_28, BEEST_28, Hyperbowlee_28, Blizzard_28, Homura_28, ShiaSurprise_28
- Track 89 : Sulley_28, Deby_28
- Track 90 : Teejan_24, Trice_24
- Track 91 : Chavito_28
- Track 92 : Joy99_28, Capricorn_28, Dalmuri_28, Inky_28, Jeckyll_28, BGlluviae_28, CallaLilly_28, Belladonna_28, Peel_28, Llorens_28, Jarvi_28, Spock_28, Twitch_28, Topper_28, CREW_28, Rosmarinus_28, Lunahalos_28
- Track 93 : MarkPhew_28
- Track 94 : Adonis_28
- Track 95 : Bern_28
- Track 96 : Zavala_28, Mynx_28, TruffulaTree_28, Emerson_28, Padpat_28
- Track 97 : HedwigODU_28, Veliki_28, Zabiza_28, Rapunzel97_28, Jayhawk_28, Slimphazie_28, Adephagia_28
- Track 98 : TreyKay_28, Prithvi_28, LindNT_28
- Track 99 : Anaya_29
- Track 100 : Illumine_28, Devera_28, Dole_28
- Track 101 : Pisa4_27, Pisa1_27
- Track 102 : Guanica15_28, Yunkel11_28
- Track 103 : Curiosium_29
- Track 104 : Geraldini_28, MeaningOfLife_28
- Track 105 : Tachez_28
- Track 106 : Angelica_28
- Track 107 : LaterM_28
- Track 108 : DrHayes_28, Urkel_28, SamuelLPlaqson_28
- Track 109 : Ramen_28, BarrelRoll_28, JAWS_28
- Track 110 : Ganymede_29, QuincyRose_27
- Track 111 : Shaobing_28, Dartin_28, McMater_28, Richo_28, Niklas_28
- Track 112 : LastHope_28
- Track 113 : Efra2_28
- Track 114 : YoureAdopted_27
- Track 115 : CheetoDust_28
- Track 116 : Anma_28
- Track 117 : LeMond_27
- Track 118 : MacKat_28, Clipper_28
- Track 119 : Stinson_29
- Track 120 : Megsy_28
- Track 121 : Apocalypse_28
- Track 122 : TaiwanKao_29
- Track 123 : Peanam_28
- Track 124 : Murucutumbu_28
- Track 125 : Beezoo_28
- Track 126 : DartGoblin_28
- Track 127 : TiniBug_28
- Track 128 : CrimD_28
- Track 129 : Tiri_28
- Track 130 : Chris_27
- Track 131 : KiSi_27, Oscar_27, Scarlett_27
- Track 132 : Validus_28
- Track 133 : ActinUp_28
- Track 134 : Ageofdapage_28
- Track 135 : TingHuaYa_28

- Track 136 : Atiba_28
- Track 137 : Nibb_27
- Track 138 : Bella96_28
- Track 139 : Findley_25
- Track 140 : Marcoliusprime_25, Milly_25, DismalStressor_25
- Track 141 : TM4_25
- Track 142 : ZoeJ_25
- Track 143 : Strobilo_25
- Track 144 : DismalFunk_25
- Track 145 : Mufasa_25
- Track 146 : BoostSeason_25, Doughnut_25
- Track 147 : MacnCheese_29
- Track 148 : TBond007_28
- Track 149 : Pixie_28
- Track 150 : Pharb_27
- Track 151 : TribbleTrouble_27
- Track 152 : Hurricane_28
- Track 153 : Keshu_28
- Track 154 : ShedlockHolmes_28, Lea83_28
- Track 155 : Bobquesha_30
- Track 156 : Lebo14_29
- Track 157 : Kraw_29, Fionnbharth_29, Y10_29, JF1_29, Y2_29
- Track 158 : SamScheppers_27, Eponine_29
- Track 159 : DanSyl44_30
- Track 160 : Reptar3000_29
- Track 161 : MissDaisy_29
- Track 162 : Slarp_29, Cheetobro_29, Chancellor_29
- Track 163 : Mitti_29
- Track 164 : Patt_29
- Track 165 : OmniCritical_29
- Track 166 : Ruthiejr_29, Juliette_30
- Track 167 : YasnayaPolyana_29
- Track 168 : Wintermute_29
- Track 169 : Malthus_30
- Track 170 : Taquito_27
- Track 171 : Rando14_28
- Track 172 : Psycho_28, Larva_28, Dadosky_28, Neighly_28, AlleyCat_28
- Track 173 : Miryou_27
- Track 174 : Leston_27, Heftyboy_27, Paola_27, Guillsminger_27, SoSeph_27
- Track 175 : Gengar_27
- Track 176 : Collard_27, ViviJ_26, Agent47_27, BananenDer11_27, DoubleChamp_27, InvictusManeo_27
- Track 177 : Feyre_27
- Track 178 : OkiRoe_27
- Track 179 : Waterfoul_27
- Track 180 : Kratio_26
- Track 181 : Omnicron_28
- Track 182 : Thyatira_27
- Track 183 : Edugator_27
- Track 184 : Ekdilam_25
- Track 185 : Bryler_28, Phrank_28, Cain_28
- Track 186 : Shadow1_27
- Track 187 : Amohnition_27

- Track 188 : Unicorn_28, PhelpsODU_28
- Track 189 : Krueger_28, Tigress9_29
- Track 190 : DarthP_27
- Track 191 : Tierra_28
- Track 192 : Marshawn_29
- Track 193 : Hammy_27
- Track 194 : Applecrisp_26
- Track 195 : Syra333_28
- Track 196 : TClif_28
- Track 197 : Ximenita_29
- Track 198 : Yuna_29
- Track 199 : Sunflower1121_27
- Track 200 : November_26
- Track 201 : Amgine_26
- Track 202 : SirPhilip_27
- Track 203 : Lavahound_26
- Track 204 : Ellie_25
- Track 205 : Fefferhead_27
- Track 206 : TyDawg_31, LilhomieP_30, FreakyGoo_32, Bongo_31, TpudiCK_32, Bricole_31, IPHane7_31, PegLeg_31
- Track 207 : Skinny_32
- Track 208 : Dulcita_32, Auspice_31, SlimJimmy_30, Diminimus_32, Izel_32, Glaske16_32, KleverKiS_31
- Track 209 : Reindeer_30
- Track 210 : Rey_35
- Track 211 : MrMagoo_35
- Track 212 : GardenSalsa_35
- Track 213 : GenevaB15_35, Aziz_35
- Track 214 : Estes_36
- Track 215 : SkinnyPete_21, Panchino_21
- Track 216 : Butters_22, Rubeelu_22
- Track 217 : Phrann_21
- Track 218 : Kevin1_22
- Track 219 : Andies_21, Willsammy_22, Dynamo_22, Scitech_21
- Track 220 : MichelleMyBell_22
- Track 221 : Rebel_21
- Track 222 : Raymond7_21
- Track 223 : Impisi_22
- Track 224 : Xeno_21
- Track 225 : Sonah_22, Ksquared_22, Phegasus_22, Fishburne_22, Techage_22, Bhagsy_22, Brusacoram_22, Jebeks_22, Zilizebeth_22, Kari_22, Juniormint_22, Bartholomew_22, Venti_22, Polkaroo_22, Mangethe_22, Necropolis_22, Majeke_22, HUHilltop_22, Vidya_22, FirstPlacePfu_22, Etoile_22, HC_22, Babsiella_22, StevieRay_22, Bunnies_22, Donovan_22, Thespiis_22, Arib1_22, GaloreK_22
- Track 226 : Jung_22
- Track 227 : Gavriela_22, CactusJack_22, StressBall_22, Glaske_22, Shweta_21, Megiddo_22, KilKor_22, Phalm_22
- Track 228 : Chubbello_22
- Track 229 : BronnyJr_22
- Track 230 : Atcoo_22
- Track 231 : Camster_22
- Track 232 : Phineas_22
- Track 233 : Langerak_22, Malithi_22

- Track 234 : PeanutPie_22
- Track 235 : Tortellini_22
- Track 236 : Xavia_22
- Track 237 : BigNuz_22, Nazo_22
- Track 238 : Phayonce_22, ThulaThula_22
- Track 239 : Purky_22, Che9c_21
- Track 240 : Demikore_38, Patience_38, SuperSonics_37, Labelle_37, Madrugua_36
- Track 241 : Bluvara_22
- Track 242 : Cracklewink_28
- Track 243 : Hilltopfarm_28, Faiyaz_28, AuntGwenStacy_28, Typha_28
- Track 244 : Bipper_28
- Track 245 : 32HC_31
- Track 246 : Rem711_30

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

The start number called the most often in the published annotations is 60, it was called in 177 of the 391 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Agent47_27, AlleyCat_28, Amelie_24, Andies_21, Arib1_22, Atcoo_22, AuntGwenStacy_28, Auspice_31, Babsiella_22, BabyMoney_29, BananenDer11_27, Bartholomew_22, Bhagsy_22, BigNuz_22, Biglebops_24, Bipper_28, Bluvara_22, Bobquesha_30, Bongo_31, BoostSeason_25, Bricole_31, BronnyJr_22, Brusacoram_22, Bryler_28, Bunnies_22, CactusJack_22, Cain_28, Camster_22, Chancellor_29, Che9c_21, Cheetobro_29, Chris_27, Chubbello_22, Collard_27, Cracklewink_28, Curiosium_29, Dadosky_28, Dalilpop_49, DanSyl44_30, Daredevil_37, Diminimus_32, DismalFunk_25, DismalStressor_25, Donovan_22, DoubleChamp_27, Doughnut_25, Dulcita_32, DumpsterDude_23, Dynamo_22, Edugator_27, Enkosi_24, Etoile_22, Ewald_30, Faiyaz_28, Farewell_21, Feyre_27, Findley_25, Fionnbharth_29, FirstPlacePfu_22, Fishburne_22, Flapper_49, FreakyGoo_32, Fury_53, GRU1_34, GTE5_36, GTE8_33, GaloreK_22, Gavriela_22, Gengar_27, Glaske16_32, Glaske_22, Guillsminger_27, HC_22, HUHilltop_22, Heftyboy_27, Hilltopfarm_28, HomeFry_50, Hurricane_28, IPHane7_31, IdentityCrisis_21, Impisi_22, InvictusManeo_27, Izel_32, JF1_29, Jebeks_22, Jung_22, Juniormint_22, Kari_22, Keshu_28, KilKor_22, KleverKiS_31, Kratio_26, Kraw_29, Krueger_28, Ksquared_22, Larva_28, LastHope_28, Lea83_28, Lebo14_29, Leston_27, LilPharaoh_24, LilhomieP_30, LordVader_21, MacnCheese_29, Majeke_22, MalagasyRose_28, Malthus_30, Mangelthe_22, Marcoliusprime_25, MarkPhew_28, Marshawn_29, Mdavu_24, Megiddo_22, MichelleMyBell_22, Milly_25, Miryou_27, MissDaisy_29, Mitti_29, Mufasa_25, Nazo_22, Necropolis_22, Neighly_28, Nibb_27, Nikao_24, Nutello_24, Nyceirae_31, OkiRoe_27, OmniCritical_29, Omnicron_28, Panchino_21, Paola_27, Patt_29, PegLeg_31, Phalm_22, Phayonce_22, Phegasus_22, PhelpsODU_28, Phineas_22, Phrank_28, Pimento_27, Pixie_28, Pleakley_53, Polkaroo_22, Psycho_28, Purky_22, Rando14_28, RavenCo17_26, Raymond7_21, Rebel_21, Reindeer_30, Reptar3000_29, Sbash_21, Scitech_21, Scuba_53, SgtBeansprout_24, Shadow1_27, ShedlockHolmes_28, Shweta_21, SirPhilip_27, SkinnyPete_21, Skinny_32, Slarp_29, SlimJimmy_30, SoSeph_27, Sonah_22, Sparky_21, StevieRay_22, StressBall_22, Strobilo_25, Sunflower1121_27, Syra333_28, TBond007_28, TClif_28, TM4_25,

Techage_22, Thespiis_22, ThulaThula_22, Thyatira_27, Tierra_28, Tigress9_29, TingHuaYa_28, Torres_24, Tortellini_22, Towmatter_36, TpudiCK_32, TripleTrouble_27, TyDawg_31, Typha_28, Unicorn_28, Venti_22, Vidya_22, ViviJ_26, WST1_22, Waterfoul_27, Willsammy_22, Wintermute_29, Xavia_22, Xeno_21, Ximenita_29, Y10_29, Y2_29, Zilizebeth_22, ZoeJ_25,

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

- Eponine_29, Langerak_22, Malithi_22, Meyran_29, PeanutPie_22, Phrann_21, SamScheppers_27, Taquito_27, Teejan_24, Trice_24, YasnayaPolyana_29,

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

- 32HC_31, 8UZL_25, ActinUp_28, Adephagia_28, Adonis_28, Ageofdapage_28, Alephilan_30, AlishaPH_28, Alyssamiracle_33, Amgine_26, Amohnition_27, Amore2_33, Anaya_29, Angelica_28, Anma_28, Apeppi_30, Apocalypse_28, Applecrisp_26, Archimedes_26, Arti_44, Asayake_28, Astralis_30, Atiba_28, Austin_33, Avian_30, Ayotoya_27, Aziz_35, BEEST_28, BGlluviae_28, BaghaKamala_28, BarrelRoll_28, Beezoo_28, Bella96_28, Belladonna_28, Bern_28, BetterKatz_27, BirthdayBoy_34, Blizzard_28, Bock_27, Boiii_28, Bonum_48, Brylie_27, Buggaboo_46, Butters_22, CREW_28, CallaLilly_28, Capricorn_28, CaseJules_28, Charminar_31, Chavito_28, CheetoDust_28, Chop_27, Clipper_28, CrimD_28, Dalmuri_28, DartGoblin_28, DARTH_P_27, Dartin_28, DaviePasture_33, Deby_28, DelRio_28, Demikore_38, Devera_28, Dogfish_30, Dole_28, DoobyDoo_32, DrHayes_28, Durfee_28, Efra2_28, Ekdilam_25, Ellie_25, Emerson_28, Emianna_44, Ennea_51, Erutan_33, Estes_36, FF47_25, Fefferhead_27, Float294_47, Foxboro_45, Francois_27, Fulcrum_34, GMA7_23, GOATification_34, GTE7_23, Ganymede_29, GardenSalsa_35, Genamy16_33, GenevaB15_35, Geraldini_28, Gibbin_34, GrandSlam_27, Gretellyn_33, GrootJr_46, Gsput1_26, Guanica15_28, Hammy_27, Hamood_27, HayZem_32, HedwigODU_28, Homura_28, Hyperbowlee_28, Illumine_28, Inky_28, JAWS_28, Jalebi_32, Jamemuya19_30, Jarvi_28, Jayhawk_28, Jeckyll_28, Jifall16_43, Joy99_28, Juliette_30, Jumbo_25, JustASigh_22, Kabluna_48, Kevin1_22, KiSi_27, KidneyBean_44, Kurt_44, Labelle_37, Lambo_33, LaterM_28, LavAbarElk_31, Lavahound_26, LeMond_27, Lila22_32, LindNT_28, Llorens_28, Lollipop1437_50, LuckyLeo_32, Lunahalos_28, MacKat_28, Maco6_23, Madrugá_36, MakCheese_24, Manilisa_32, McMatér_28, MeaningOfLife_28, Megsy_28, MerCougar_46, Mima20_31, MoiGyank_35, MrMagoo_35, Muddy_25, Mulch_27, Murucutumbu_28, Mynx_28, Nadeem_27, NancyRae_27, NatB6_44, Niklas_28, NorManre_34, NosilaM_48, NovaSharks_32, November_26, NovumRegina_44, Oscar_27, OtterstedtS21_33, Outis_46, Padfoot_28, Padpat_28, Parada_27, ParvusTarda_33, Patience_38, Patio_48, Patos_34, Peanam_28, Peel_28, Pharb_27, Phishy_30, Phomeo_43, Piatt_28, Pisa1_27, Pisa4_27, Pokerus_27, Prithvi_28, QuincyRose_27, Ramen_28, Ranch_33, Rapunzel97_28, RazorC_31, RedRaider_52, Rem711_30, Rey_35, Richo_28, Rosmarinus_28, Rota_32, Rubeelu_22, Rukungu_33, Rumi_32, Ruthiejr_29, Sadboi_34, Sampudon_33, SamuelLPlaqsón_28, Scarlett_27, Shaobing_28, ShiaSurprise_28, Skysand_47, Slimphazie_28, Spock_28, Sprinklemunch_22, StarStruck_46, Stinson_29, Stormer_32, Sulley_28, SuperSonics_37, SuperSulley_46, Tachez_28, TaiwanKao_29, Tillicus_32, TiniBug_28, Tiri_28, Topper_28, Tracker_44, TreyKay_28, TruffulaTree_28, Twitch_28, Urkel_28, Validus_28, Veliki_28, Vordorf_31, WheatThin_27, Wheezy_44, Wojtek_32, Yikes_34, YoureAdopted_27, Yuna_29, Yunkel11_28, Zabiza_28, Zany_32, Zavala_28, Zodiariah_22,

Summary by start number:

Start 26:

- Found in 1 of 447 (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 35:

- Found in 3 of 447 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 391
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_31 (Z), JustASigh_22 (AH), Rem711_30 (Z),

Start 48:

- Found in 6 of 447 (1.3%) of genes in pham
- Manual Annotations of this start: 6 of 391
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aziz_35 (M2), Estes_36 (M2), GardenSalsa_35 (M2), GenevaB15_35 (M2), MrMagoo_35 (M2), Rey_35 (M2),

Start 50:

- Found in 11 of 447 (2.5%) of genes in pham
- No Manual Annotations of this start.
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Teejan_24 (K1), Trice_24 (K1),

Start 55:

- Found in 2 of 447 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 391
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pharb_27 (K3), Taquito_27 (K4),

Start 56:

- Found in 4 of 447 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 391
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_25 (AB), FF47_25 (AB), Maco6_23 (AB), Muddy_25 (AB),

Start 57:

- Found in 150 of 447 (33.6%) of genes in pham
- Manual Annotations of this start: 102 of 391
- Called 72.0% of time when present
- Phage (with cluster) where this start called: Adephagia_28 (K1), Ageofdapage_28 (K1), AlishaPH_28 (K1), Amgine_26 (K6), Amohnition_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), 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), Eponine_29 (K4), 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), Langerak_22 (P1), LaterM_28 (K1), Lavahound_26 (K6), LindNT_28 (K1), Llorens_28 (K1), Lunahalos_28 (K1), MacKat_28 (K1), Malithi_22 (P1), 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), Phrann_21 (N), 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), SamScheppers_27 (K4), 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 58:

- Found in 5 of 447 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 391
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Butters_22 (N), Juliette_30 (K4), Kevin1_22 (N), Rubeelu_22 (N), Ruthiejr_29 (K4),

Start 59:

- Found in 4 of 447 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 391
- 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 60:

- Found in 214 of 447 (47.9%) of genes in pham
- Manual Annotations of this start: 177 of 391
- Called 94.9% of time when present
- Phage (with cluster) where this start called: Agent47_27 (K5), AlleyCat_28 (K5), Amelie_24 (K1), Andies_21 (N), Arib1_22 (P1), Atcoo_22 (P1), AuntGwenStacy_28 (Y), Auspice_31 (M1), Babsiella_22 (I1), BabyMoney_29 (DT), BananenDer11_27 (K5), Bartholomew_22 (P1), Bhagsy_22 (P1), BigNuz_22 (P4), Binglebops_24 (K1), Bipper_28 (Y), Bluvava_22 (UNK), Bobquesha_30 (K4), Bongo_31 (M1), BoostSeason_25 (K2), Bricole_31 (M1), BronnyJr_22 (P1), Brusacoram_22 (P1), Bryler_28 (K6), Bunnies_22 (P1), CactusJack_22 (P1), Cain_28 (K6), Camster_22 (P1), Chancellor_29 (K4), Che9c_21 (I2), Cheetobro_29 (K4), Chris_27 (K1), Chubbello_22 (P1), Collard_27 (K5), Cracklewink_28 (Y), Curiosium_29 (K1), Dadosky_28 (K5), Dalilpop_49 (CR1), DanSyl44_30 (K4), Daredevil_37 (DL), Diminimus_32 (M1), DismalFunk_25 (K2), DismalStressor_25 (K2), Donovan_22 (P1), DoubleChamp_27 (K5), Doughnut_25 (K2), Dulcita_32 (M1), DumpsterDude_23 (DW), Dynamo_22 (P1), Edugator_27 (K5), Enkosi_24 (K1), Etoile_22 (P1), Ewald_30 (DT), Faiyaz_28 (Y), Farewell_21 (AF), Feyre_27 (K5), Findley_25 (K2), Fionnbharth_29 (K4), FirstPlacePfu_22 (P1), Fishburne_22 (P1), Flapper_49 (CR1), FreakyGoo_32 (M1), Fury_53 (CR5), GRU1_34 (CR1), GTE5_36 (CR1), GTE8_33 (CR2), GaloreK_22 (P1), Gavriela_22 (P1), Gengar_27 (K5), Glaske16_32 (M1),

Glaske_22 (P1), Guillsminger_27 (K5), HC_22 (I1), HUHilltop_22 (P1), Heftyboy_27 (K5), Hilltopfarm_28 (Y), HomeFry_50 (CR5), Hurricane_28 (K3), IPHane7_31 (M1), IdentityCrisis_21 (AJ), Impisi_22 (N), InvictusManeo_27 (K5), Izel_32 (M1), JF1_29 (K4), Jebeks_22 (P1), Jung_22 (P1), Juniormint_22 (P1), Kari_22 (P1), Keshu_28 (K3), KilKor_22 (P1), KleverKiS_31 (M1), Kratio_26 (K5), Kraw_29 (K4), Krueger_28 (K6), Ksquared_22 (P1), Larva_28 (K5), LastHope_28 (K1), Lea83_28 (K3), Lebo14_29 (K4), Leston_27 (K5), LilPharaoh_24 (K1), LilhomieP_30 (M1), LordVader_21 (F), MacnCheese_29 (K3), Majeke_22 (P1), MalagasyRose_28 (AG), Malthus_30 (K4), Mangethe_22 (P1), Marcoliusprime_25 (K2), MarkPhew_28 (K1), Marshawn_29 (K6), Mdavu_24 (K1), Megiddo_22 (P1), MichelleMyBell_22 (N), Milly_25 (K2), Miryou_27 (K5), MissDaisy_29 (K4), Mitti_29 (K4), Mufasa_25 (K2), Nazo_22 (P4), Necropolis_22 (P1), Neighly_28 (K3), Nibb_27 (K1), Nikao_24 (K1), Nutello_24 (K1), Nyceirae_31 (DT), OkiRoe_27 (K5), OmniCritical_29 (K4), Omnicron_28 (K5), Panchino_21 (N), Paola_27 (K5), Patt_29 (K4), PegLeg_31 (M1), Phalm_22 (P1), Phayonce_22 (P5), Phegasus_22 (P1), PhelpsODU_28 (K6), Phineas_22 (P1), Phrank_28 (K6), Pimento_27 (DI), Pixie_28 (K3), Pleakley_53 (CR5), Polkaroo_22 (P1), Psycho_28 (K5), Purky_22 (P6), Rando14_28 (K5), RavenCo17_26 (CZ8), Raymond7_21 (N), Rebel_21 (N), Reindeer_30 (M1), Reptar3000_29 (K4), Sbash_21 (I2), Scitech_21 (N), Scuba_53 (CR5), SgtBeansprout_24 (K1), Shadow1_27 (K6), ShedlockHolmes_28 (K3), Shweta_21 (N), SirPhilip_27 (K6), SkinnyPete_21 (N), Skinny_32 (M1), Slarp_29 (K4), SlimJimmy_30 (M1), SoSeph_27 (K5), Sonah_22 (P1), Sparky_21 (AF), StevieRay_22 (P1), StressBall_22 (P1), Strobilo_25 (K2), Sunflower1121_27 (K6), Syra333_28 (K6), TBond007_28 (K3), TClif_28 (K6), TM4_25 (K2), Techage_22 (P1), Thespis_22 (P1), ThulaThula_22 (P5), Thyatira_27 (K5), Tierra_28 (K6), Tigress9_29 (K6), TingHuaYa_28 (K1), Torres_24 (K1), Tortellini_22 (P2), Towmatter_36 (DL), TpudiCK_32 (M1), TribbleTrouble_27 (K3), TyDawg_31 (M1), Typha_28 (Y), Unicorn_28 (K6), Venti_22 (P1), Vidya_22 (P1), ViviJ_26 (K5), WST1_22 (AJ), Waterfoul_27 (K5), Willsammy_22 (P1), Wintermute_29 (K4), Xavia_22 (P3), Xeno_21 (N), Ximenita_29 (K6), Y10_29 (K4), Y2_29 (K4), Zilizebeth_22 (P1), ZoeJ_25 (K2),

Start 61:

- Found in 39 of 447 (8.7%) of genes in pham
- Manual Annotations of this start: 33 of 391
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Alephilan_30 (DV), Alyssamiracle_33 (DV), Apeppi_30 (DV), Astralis_30 (DV), Avian_30 (DV), BirthdayBoy_34 (DV), Charminar_31 (DV), DaviePasture_33 (DV), DoobyDoo_32 (DV), Erutan_33 (DV), Fulcrum_34 (DV), GOATification_34 (DV), Genamy16_33 (DV), Gibbin_34 (DV), GretelLyn_33 (DV), Jalebi_32 (DV), Jamemuya19_30 (DV), Lambo_33 (DV), LavAbarElk_31 (DV), Lila22_32 (DV), Mima20_31 (DV), MoiGyank_35 (DV), NorManre_34 (DV), NovaSharks_32 (DV), OtterstedtS21_33 (DV), ParvusTarda_33 (DV), Patos_34 (DV), Ranch_33 (DV), RazorC_31 (DV), Rumi_32 (DV), Sampudon_33 (DV), Stormer_32 (DV), Tillicus_32 (DV), Wojtek_32 (DV), Yikes_34 (DV), Zany_32 (DV),

Start 62:

- Found in 36 of 447 (8.1%) of genes in pham
- Manual Annotations of this start: 27 of 391
- Called 80.6% of time when present
- Phage (with cluster) where this start called: Arti_44 (CR2), Bonum_48 (CR2), Buggaboo_46 (CR2), Dogfish_30 (DT), Emianna_44 (CR2), Ennea_51 (CR3),

Float294_47 (CR3), Foxboro_45 (CR2), GrootJr_46 (CR2), Gsput1_26 (CU2), Jifall16_43 (CR2), Kabluna_48 (CR2), KidneyBean_44 (CR2), Kurt_44 (CR2), Lollipop1437_50 (CR3), Manilisa_32 (DT), MerCougar_46 (CR2), NatB6_44 (CR2), NosilaM_48 (CR2), NovumRegina_44 (CR2), Outis_46 (CR2), Patio_48 (CR3), Phomeo_43 (CR2), RedRaider_52 (CR3), Skysand_47 (CR3), StarStruck_46 (CR2), SuperSulley_46 (CR2), Tracker_44 (CR2), Wheezy_44 (CR2),

Start 63:

- Found in 19 of 447 (4.3%) of genes in pham
- Manual Annotations of this start: 17 of 391
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Ayotoya_27 (DI), BetterKatz_27 (DI), Bock_27 (DI), Brylie_27 (DI), Chop_27 (DI), DelRio_28 (DI), Francois_27 (DI), GrandSlam_27 (DI), Hamood_27 (DI), Jumbo_25 (DF3), Mulch_27 (DI), Nadeem_27 (DI), NancyRae_27 (DI), Parada_27 (DI), Phishy_30 (DT), Sprinklemunch_22 (DW), WheatThin_27 (DI), Zodiariah_22 (DW),

Start 64:

- Found in 1 of 447 (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: Vordorf_31 (DT),

Start 65:

- Found in 5 of 447 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 391
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Demikore_38 (U), Labelle_37 (U), Madrugua_36 (U), Patience_38 (U), SuperSonics_37 (U),

Start 66:

- Found in 6 of 447 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 391
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Amore2_33 (CS1), Austin_33 (CS1), GMA7_23 (CS1), GTE7_23 (CS1), HayZem_32 (CS1),

Start 69:

- Found in 37 of 447 (8.3%) of genes in pham
- No Manual Annotations of this start.
- Called 2.7% of time when present
- Phage (with cluster) where this start called: PeanutPie_22 (P1),

Start 72:

- Found in 4 of 447 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 391
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Meyran_29 (DT),

Start 76:

- Found in 1 of 447 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 391
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Archimedes_26 (DA),

Start 78:

- Found in 3 of 447 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 391
- Called 33.3% of time when present
- Phage (with cluster) where this start called: LuckyLeo_32 (DV),

Start 80:

- Found in 8 of 447 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 391
- Called 12.5% of time when present
- Phage (with cluster) where this start called: YasnayaPolyana_29 (K4),

Start 85:

- Found in 11 of 447 (2.5%) of genes in pham
- No Manual Annotations of this start.
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Rota_32 (DV), Rukungu_33 (DV),

Start 95:

- Found in 86 of 447 (19.2%) of genes in pham
- Manual Annotations of this start: 3 of 391
- Called 7.0% of time when present
- Phage (with cluster) where this start called: ActinUp_28 (K1), Adonis_28 (K1), Anaya_29 (K1), Anma_28 (K1), DartGoblin_28 (K1), TaiwanKao_29 (K1),

Start 96:

- Found in 3 of 447 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: MakCheese_24 (DW),

Start 158:

- Found in 1 of 447 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 391
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sadboi_34 (DV),

Summary by clusters:

There are 41 clusters represented in this pham: CZ8, DI, M2, DL, DA, K3, K2, K1, AB, M1, K6, K5, K4, DV, DW, DT, F, UNK, AG, I1, I2, DF3, CS1, P2, P3, P1, P6, P4, P5, AH, AJ, N, U, Y, Z, AF, CU2, CR2, CR3, CR1, CR5,

Info for manual annotations of cluster AB:

- Start number 56 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AF:

- Start number 60 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:

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

Info for manual annotations of cluster AH:

- Start number 35 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AJ:

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

Info for manual annotations of cluster CR1:

- Start number 60 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 62 was manually annotated 20 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 62 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR5:

- Start number 60 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CS1:

- Start number 66 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CZ8:

- Start number 60 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DA:

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

Info for manual annotations of cluster DF3:

- Start number 63 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DI:

- Start number 60 was manually annotated 1 time for cluster DI.
- Start number 63 was manually annotated 14 times for cluster DI.

Info for manual annotations of cluster DL:

- Start number 60 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DT:

- Start number 60 was manually annotated 2 times for cluster DT.
- Start number 62 was manually annotated 1 time for cluster DT.
- Start number 63 was manually annotated 1 time for cluster DT.
- Start number 72 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DV:

- Start number 61 was manually annotated 33 times for cluster DV.
- Start number 78 was manually annotated 1 time for cluster DV.
- Start number 158 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster DW:

- Start number 60 was manually annotated 1 time for cluster DW.
- Start number 63 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster I1:

- Start number 60 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 60 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster K1:

- Start number 57 was manually annotated 87 times for cluster K1.
- Start number 59 was manually annotated 4 times for cluster K1.
- Start number 60 was manually annotated 14 times for cluster K1.
- Start number 95 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 60 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 55 was manually annotated 1 time for cluster K3.
- Start number 60 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 55 was manually annotated 1 time for cluster K4.
- Start number 57 was manually annotated 2 times for cluster K4.
- Start number 58 was manually annotated 2 times for cluster K4.
- Start number 60 was manually annotated 16 times for cluster K4.
- Start number 80 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K5:

- Start number 60 was manually annotated 23 times for cluster K5.

Info for manual annotations of cluster K6:

- Start number 57 was manually annotated 10 times for cluster K6.
- Start number 60 was manually annotated 14 times for cluster K6.

Info for manual annotations of cluster M1:

- Start number 60 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 48 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster N:

- Start number 57 was manually annotated 1 time for cluster N.
- Start number 58 was manually annotated 3 times for cluster N.
- Start number 60 was manually annotated 8 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 57 was manually annotated 2 times for cluster P1.
- Start number 60 was manually annotated 37 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 60 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 60 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 60 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 60 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:

- Start number 60 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster U:

- Start number 65 was manually annotated 3 times for cluster U.

Info for manual annotations of cluster Y:

- Start number 60 was manually annotated 5 times for cluster Y.

Info for manual annotations of cluster Z:

- Start number 35 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_31 Start: 25140, Stop: 26351, Start Num: 35

Candidate Starts for 32HC_31:

(Start: 35 @25140 has 2 MA's), (38, 25161), (77, 25299), (110, 25401), (165, 25524), (172, 25539), (178, 25560), (200, 25611), (211, 25641), (212, 25644), (216, 25650), (224, 25677), (225, 25680), (228, 25686), (233, 25701), (235, 25707), (244, 25728), (247, 25740), (277, 25872), (279, 25899), (321, 26082), (338, 26115), (383, 26289),

Gene: 8UZL_25 Start: 21727, Stop: 22752, Start Num: 56

Candidate Starts for 8UZL_25:

(Start: 56 @21727 has 2 MA's), (88, 21817), (113, 21886), (116, 21895), (156, 21973), (179, 22036), (181, 22039), (206, 22087), (246, 22183), (255, 22219), (270, 22270), (278, 22327), (349, 22564), (388, 22690),

Gene: ActinUp_28 Start: 23436, Stop: 24338, Start Num: 95

Candidate Starts for ActinUp_28:

(10, 22881), (21, 23028), (47, 23280), (Start: 57 @23325 has 102 MA's), (Start: 95 @23436 has 3 MA's), (140, 23550), (196, 23667), (212, 23709), (220, 23721), (255, 23775), (274, 23853), (294, 23949), (299, 23961), (307, 23991), (310, 24000), (343, 24114), (370, 24183),

Gene: Adephagia_28 Start: 23322, Stop: 24335, Start Num: 57

Candidate Starts for Adephagia_28:

(10, 22878), (21, 23025), (47, 23277), (Start: 57 @23322 has 102 MA's), (Start: 95 @23433 has 3 MA's), (140, 23547), (196, 23664), (212, 23706), (220, 23718), (255, 23772), (274, 23850), (294, 23946), (299, 23958), (307, 23988), (310, 23997), (343, 24111), (370, 24180),

Gene: Adonis_28 Start: 23439, Stop: 24341, Start Num: 95

Candidate Starts for Adonis_28:

(10, 22884), (47, 23283), (Start: 57 @23328 has 102 MA's), (Start: 95 @23439 has 3 MA's), (140, 23553), (196, 23670), (212, 23712), (220, 23724), (255, 23778), (274, 23856), (290, 23940), (294, 23952), (299, 23964), (310, 24003), (343, 24117), (370, 24186),

Gene: Agent47_27 Start: 24079, Stop: 25143, Start Num: 60

Candidate Starts for Agent47_27:

(Start: 60 @24079 has 177 MA's), (89, 24169), (98, 24196), (121, 24259), (145, 24307), (161, 24346), (169, 24364), (192, 24409), (207, 24448), (226, 24496), (233, 24514), (258, 24589), (275, 24655), (292, 24745), (293, 24748), (294, 24751), (304, 24784), (324, 24883), (325, 24886), (359, 24970), (363, 24982), (390, 25099),

Gene: Ageofdapage_28 Start: 23272, Stop: 24285, Start Num: 57

Candidate Starts for Ageofdapage_28:

(Start: 57 @23272 has 102 MA's), (Start: 95 @23383 has 3 MA's), (140, 23497), (196, 23614), (212, 23656), (255, 23722), (258, 23731), (274, 23800), (294, 23896), (299, 23908), (303, 23926), (310, 23947), (343, 24061), (370, 24130), (388, 24226),

Gene: Alephilan_30 Start: 28717, Stop: 29766, Start Num: 61

Candidate Starts for Alephilan_30:

(Start: 61 @28717 has 33 MA's), (98, 28831), (112, 28873), (120, 28894), (133, 28927), (139, 28942), (169, 29005), (176, 29023), (236, 29176), (250, 29206), (256, 29233), (300, 29416), (309, 29446), (369, 29620), (380, 29674),

Gene: AlishaPH_28 Start: 23315, Stop: 24328, Start Num: 57

Candidate Starts for AlishaPH_28:

(10, 22871), (47, 23270), (Start: 57 @23315 has 102 MA's), (Start: 95 @23426 has 3 MA's), (140, 23540), (196, 23657), (212, 23699), (220, 23711), (255, 23765), (274, 23843), (294, 23939), (299, 23951), (307, 23981), (310, 23990), (343, 24104), (370, 24173),

Gene: AlleyCat_28 Start: 24010, Stop: 25074, Start Num: 60

Candidate Starts for AlleyCat_28:

(Start: 60 @24010 has 177 MA's), (89, 24100), (99, 24130), (118, 24184), (121, 24190), (145, 24238), (161, 24277), (169, 24295), (171, 24298), (207, 24379), (226, 24427), (233, 24445), (275, 24586), (292, 24676), (293, 24679), (294, 24682), (304, 24715), (308, 24727), (324, 24814), (325, 24817), (363, 24913), (390, 25030),

Gene: Alyssamiracle_33 Start: 27521, Stop: 28618, Start Num: 61

Candidate Starts for Alyssamiracle_33:

(Start: 61 @27521 has 33 MA's), (98, 27635), (134, 27728), (151, 27761), (152, 27764), (154, 27767), (161, 27788), (167, 27800), (192, 27848), (219, 27911), (236, 27965), (264, 28061), (273, 28103), (320, 28337), (340, 28376), (368, 28463), (397, 28610),

Gene: Amelie_24 Start: 22900, Stop: 23907, Start Num: 60

Candidate Starts for Amelie_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Amgine_26 Start: 23356, Stop: 24351, Start Num: 57

Candidate Starts for Amgine_26:

(51, 23320), (Start: 57 @23356 has 102 MA's), (88, 23446), (Start: 95 @23467 has 3 MA's), (136, 23575), (140, 23581), (153, 23602), (161, 23623), (261, 23830), (274, 23884), (275, 23887), (291, 23971), (292, 23974), (345, 24139),

Gene: Amohnition_27 Start: 23778, Stop: 24782, Start Num: 57

Candidate Starts for Amohnition_27:

(Start: 57 @23778 has 102 MA's), (146, 24015), (196, 24120), (269, 24279), (289, 24381), (292, 24393), (324, 24528), (336, 24546), (370, 24639), (382, 24705), (385, 24717),

Gene: Amore2_33 Start: 36453, Stop: 37457, Start Num: 66

Candidate Starts for Amore2_33:

(Start: 66 @36453 has 3 MA's), (81, 36501), (90, 36519), (117, 36597), (124, 36615), (129, 36624), (168, 36690), (203, 36771), (259, 36924), (269, 36951), (273, 36972), (293, 37074), (322, 37200), (370, 37302), (393, 37434),

Gene: Anaya_29 Start: 23452, Stop: 24354, Start Num: 95

Candidate Starts for Anaya_29:

(10, 22897), (47, 23296), (Start: 57 @23341 has 102 MA's), (Start: 95 @23452 has 3 MA's), (140, 23566), (196, 23683), (212, 23725), (220, 23737), (255, 23791), (274, 23869), (294, 23965), (299, 23977), (307, 24007), (310, 24016), (343, 24130), (370, 24199),

Gene: Andies_21 Start: 20194, Stop: 21228, Start Num: 60

Candidate Starts for Andies_21:

(Start: 60 @20194 has 177 MA's), (112, 20350), (114, 20356), (162, 20464), (164, 20467), (171, 20482), (210, 20569), (226, 20614), (255, 20695), (270, 20752), (275, 20776), (299, 20881), (314, 20953), (333, 20998),

Gene: Angelica_28 Start: 23290, Stop: 24303, Start Num: 57

Candidate Starts for Angelica_28:

(Start: 57 @23290 has 102 MA's), (Start: 95 @23401 has 3 MA's), (140, 23515), (196, 23632), (220, 23686), (224, 23704), (255, 23740), (274, 23818), (294, 23914), (299, 23926), (307, 23956), (310, 23965), (343, 24079), (370, 24148),

Gene: Anma_28 Start: 23395, Stop: 24297, Start Num: 95

Candidate Starts for Anma_28:

(47, 23239), (Start: 57 @23284 has 102 MA's), (Start: 95 @23395 has 3 MA's), (140, 23509), (196, 23626), (212, 23668), (220, 23680), (255, 23734), (274, 23812), (294, 23908), (299, 23920), (310, 23959), (316, 23995), (370, 24142), (388, 24238),

Gene: Apeppi_30 Start: 28862, Stop: 29908, Start Num: 61

Candidate Starts for Apeppi_30:

(Start: 61 @28862 has 33 MA's), (Start: 78 @28919 has 1 MA's), (109, 29009), (112, 29018), (114, 29024), (117, 29033), (139, 29087), (223, 29285), (250, 29351), (253, 29363), (270, 29432), (303, 29573), (332, 29681),

Gene: Apocalypse_28 Start: 23293, Stop: 24306, Start Num: 57

Candidate Starts for Apocalypse_28:

(Start: 57 @23293 has 102 MA's), (Start: 95 @23404 has 3 MA's), (140, 23518), (196, 23635), (212, 23677), (220, 23689), (255, 23743), (274, 23821), (294, 23917), (299, 23929), (310, 23968), (336, 24064), (343, 24082), (370, 24151),

Gene: Applecrisp_26 Start: 23767, Stop: 24774, Start Num: 57

Candidate Starts for Applecrisp_26:

(51, 23731), (Start: 57 @23767 has 102 MA's), (88, 23857), (Start: 95 @23878 has 3 MA's), (124, 23959), (140, 23992), (153, 24013), (275, 24298), (282, 24337), (292, 24382), (382, 24697), (395, 24757),

Gene: Archimedes_26 Start: 23367, Stop: 24368, Start Num: 76

Candidate Starts for Archimedes_26:

(Start: 66 @23343 has 3 MA's), (Start: 76 @23367 has 1 MA's), (100, 23445), (170, 23595), (240, 23766), (275, 23898), (290, 23982), (301, 24018), (322, 24114), (370, 24213), (394, 24348),

Gene: Arib1_22 Start: 21305, Stop: 22342, Start Num: 60

Candidate Starts for Arib1_22:

(53, 21281), (Start: 57 @21302 has 102 MA's), (Start: 60 @21305 has 177 MA's), (69, 21329), (114, 21467), (131, 21509), (164, 21578), (192, 21638), (210, 21683), (226, 21728), (255, 21809), (270, 21866), (275, 21890), (299, 21995), (314, 22067), (333, 22112), (387, 22277),

Gene: Arti_44 Start: 34961, Stop: 36019, Start Num: 62

Candidate Starts for Arti_44:

(1, 33521), (2, 33818), (3, 34049), (6, 34418), (29, 34796), (31, 34811), (33, 34829), (Start: 62 @34961 has 27 MA's), (201, 35306), (221, 35357), (238, 35405),

Gene: Asayake_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Asayake_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Astralis_30 Start: 27111, Stop: 28208, Start Num: 61

Candidate Starts for Astralis_30:

(Start: 61 @27111 has 33 MA's), (98, 27225), (134, 27318), (151, 27351), (152, 27354), (154, 27357), (160, 27375), (161, 27378), (192, 27438), (212, 27489), (219, 27501), (264, 27651), (273, 27693), (320, 27927), (340, 27966), (368, 28053), (397, 28200),

Gene: Atcoo_22 Start: 21759, Stop: 22826, Start Num: 60

Candidate Starts for Atcoo_22:

(Start: 60 @21759 has 177 MA's), (114, 21921), (131, 21963), (164, 22032), (192, 22092), (210, 22137), (226, 22182), (270, 22320), (275, 22344),

Gene: Atiba_28 Start: 23285, Stop: 24298, Start Num: 57

Candidate Starts for Atiba_28:

(10, 22841), (21, 22988), (47, 23240), (Start: 57 @23285 has 102 MA's), (104, 23417), (140, 23510), (196, 23627), (212, 23669), (220, 23681), (255, 23735), (274, 23813), (294, 23909), (307, 23951), (310, 23960), (343, 24074), (370, 24143),

Gene: AuntGwenStacy_28 Start: 26025, Stop: 27062, Start Num: 60

Candidate Starts for AuntGwenStacy_28:

(Start: 60 @26025 has 177 MA's), (101, 26148), (121, 26202), (135, 26238), (168, 26301), (192, 26349), (216, 26403), (218, 26406), (274, 26592), (279, 26628), (289, 26670), (294, 26688), (310, 26739),

Gene: Auspice_31 Start: 26992, Stop: 28047, Start Num: 60

Candidate Starts for Auspice_31:

(Start: 60 @26992 has 177 MA's), (135, 27205), (155, 27241), (185, 27304), (218, 27376), (226, 27406), (234, 27427), (249, 27463), (258, 27499), (270, 27547), (274, 27568), (276, 27574), (279, 27604), (280, 27607), (291, 27655), (358, 27865), (375, 27919),

Gene: Austin_33 Start: 36453, Stop: 37457, Start Num: 66

Candidate Starts for Austin_33:

(Start: 66 @36453 has 3 MA's), (81, 36501), (90, 36519), (124, 36615), (129, 36624), (168, 36690), (203, 36771), (259, 36924), (269, 36951), (273, 36972), (293, 37074), (322, 37200), (370, 37302), (393, 37434),

Gene: Avian_30 Start: 27503, Stop: 28600, Start Num: 61

Candidate Starts for Avian_30:

(Start: 61 @27503 has 33 MA's), (98, 27617), (134, 27710), (151, 27743), (152, 27746), (154, 27749), (160, 27767), (161, 27770), (192, 27830), (212, 27881), (219, 27893), (222, 27905), (236, 27947), (264, 28043), (273, 28085), (320, 28319), (340, 28358), (368, 28445), (397, 28592),

Gene: Ayotoya_27 Start: 24101, Stop: 25168, Start Num: 63

Candidate Starts for Ayotoya_27:

(Start: 63 @24101 has 17 MA's), (216, 24479), (263, 24620), (267, 24635), (270, 24647), (275, 24671), (290, 24755), (292, 24761), (302, 24794), (306, 24806), (325, 24902), (327, 24905), (341, 24926),

Gene: Aziz_35 Start: 27886, Stop: 28968, Start Num: 48

Candidate Starts for Aziz_35:

(41, 27865), (45, 27880), (Start: 48 @27886 has 6 MA's), (70, 27961), (81, 28006), (83, 28012), (86, 28018), (91, 28036), (Start: 95 @28045 has 3 MA's), (114, 28096), (121, 28111), (130, 28135), (140, 28156), (165, 28210), (167, 28216), (190, 28270), (258, 28426), (372, 28837),

Gene: BEEST_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for BEEST_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: BGlluviae_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for BGlluviae_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Babsiella_22 Start: 21313, Stop: 22350, Start Num: 60

Candidate Starts for Babsiella_22:

(53, 21289), (Start: 57 @21310 has 102 MA's), (Start: 60 @21313 has 177 MA's), (69, 21337), (114, 21475), (131, 21517), (164, 21586), (192, 21646), (210, 21691), (226, 21736), (255, 21817), (270, 21874), (275, 21898), (299, 22003), (314, 22075), (333, 22120), (387, 22285),

Gene: BabyMoney_29 Start: 25948, Stop: 27033, Start Num: 60

Candidate Starts for BabyMoney_29:

(4, 25351), (8, 25438), (20, 25636), (Start: 60 @25948 has 177 MA's), (Start: 95 @26053 has 3 MA's), (116, 26116), (133, 26158), (168, 26236), (204, 26320), (216, 26350), (241, 26413), (270, 26521), (299, 26653),

Gene: BaghaKamala_28 Start: 23285, Stop: 24298, Start Num: 57

Candidate Starts for BaghaKamala_28:

(10, 22841), (47, 23240), (Start: 57 @23285 has 102 MA's), (Start: 95 @23396 has 3 MA's), (140, 23510), (196, 23627), (212, 23669), (220, 23681), (255, 23735), (274, 23813), (294, 23909), (299, 23921), (307, 23951), (310, 23960), (343, 24074), (370, 24143),

Gene: BananenDer11_27 Start: 24040, Stop: 25104, Start Num: 60

Candidate Starts for BananenDer11_27:

(Start: 60 @24040 has 177 MA's), (89, 24130), (98, 24157), (121, 24220), (145, 24268), (161, 24307), (169, 24325), (192, 24370), (207, 24409), (226, 24457), (233, 24475), (258, 24550), (275, 24616), (292, 24706), (293, 24709), (294, 24712), (304, 24745), (324, 24844), (325, 24847), (359, 24931), (363, 24943), (390, 25060),

Gene: BarrelRoll_28 Start: 23308, Stop: 24321, Start Num: 57

Candidate Starts for BarrelRoll_28:

(10, 22864), (47, 23263), (Start: 57 @23308 has 102 MA's), (Start: 95 @23419 has 3 MA's), (140, 23533), (196, 23650), (212, 23692), (220, 23704), (255, 23758), (274, 23836), (294, 23932), (307, 23974), (310, 23983), (343, 24097), (370, 24166),

Gene: Bartholomew_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Bartholomew_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Beezoo_28 Start: 23333, Stop: 24346, Start Num: 57

Candidate Starts for Beezoo_28:

(Start: 57 @23333 has 102 MA's), (Start: 95 @23444 has 3 MA's), (140, 23558), (160, 23597), (196, 23675), (212, 23717), (220, 23729), (255, 23783), (274, 23861), (290, 23945), (294, 23957), (299, 23969), (310, 24008), (343, 24122), (370, 24191),

Gene: Bella96_28 Start: 23266, Stop: 24279, Start Num: 57

Candidate Starts for Bella96_28:

(47, 23221), (Start: 57 @23266 has 102 MA's), (Start: 72 @23299 has 1 MA's), (Start: 95 @23377 has 3 MA's), (140, 23491), (196, 23608), (212, 23650), (220, 23662), (255, 23716), (274, 23794), (290, 23878), (294, 23890), (299, 23902), (301, 23914), (310, 23941), (316, 23977), (370, 24124), (388, 24220),

Gene: Belladonna_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Belladonna_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Bern_28 Start: 23278, Stop: 24291, Start Num: 57

Candidate Starts for Bern_28:

(32, 23140), (37, 23179), (40, 23209), (42, 23215), (Start: 57 @23278 has 102 MA's), (Start: 95 @23389 has 3 MA's), (140, 23503), (153, 23524), (196, 23620), (204, 23638), (212, 23662), (220, 23674), (255, 23728), (274, 23806), (294, 23902), (299, 23914), (310, 23953), (316, 23989), (370, 24136),

Gene: BetterKatz_27 Start: 23574, Stop: 24641, Start Num: 63

Candidate Starts for BetterKatz_27:

(Start: 63 @23574 has 17 MA's), (216, 23952), (263, 24093), (267, 24108), (270, 24120), (275, 24144), (276, 24147), (290, 24228), (325, 24375),

Gene: Bhagsy_22 Start: 21306, Stop: 22343, Start Num: 60

Candidate Starts for Bhagsy_22:

(53, 21282), (Start: 57 @21303 has 102 MA's), (Start: 60 @21306 has 177 MA's), (69, 21330), (114, 21468), (131, 21510), (164, 21579), (192, 21639), (210, 21684), (226, 21729), (255, 21810), (270,

21867), (275, 21891), (299, 21996), (314, 22068), (333, 22113), (387, 22278),

Gene: BigNuz_22 Start: 21497, Stop: 22546, Start Num: 60

Candidate Starts for BigNuz_22:

(Start: 60 @21497 has 177 MA's), (68, 21518), (114, 21659), (125, 21689), (135, 21710), (168, 21773), (187, 21812), (251, 21971), (279, 22103), (305, 22199), (388, 22484),

Gene: Binglebops_24 Start: 22900, Stop: 23907, Start Num: 60

Candidate Starts for Binglebops_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Bipper_28 Start: 26155, Stop: 27216, Start Num: 60

Candidate Starts for Bipper_28:

(Start: 60 @26155 has 177 MA's), (105, 26293), (113, 26314), (114, 26317), (134, 26365), (135, 26368), (169, 26443), (192, 26488), (210, 26530), (211, 26533), (220, 26551), (226, 26575), (232, 26587), (234, 26596), (236, 26602), (275, 26734), (292, 26824), (310, 26881), (317, 26917), (328, 26956), (356, 27037), (395, 27199),

Gene: BirthdayBoy_34 Start: 29543, Stop: 30589, Start Num: 61

Candidate Starts for BirthdayBoy_34:

(Start: 61 @29543 has 33 MA's), (98, 29657), (105, 29678), (112, 29699), (133, 29753), (139, 29768), (223, 29966), (250, 30032), (253, 30044), (270, 30113), (303, 30254),

Gene: Blizzard_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Blizzard_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Bluvara_22 Start: 21380, Stop: 22417, Start Num: 60

Candidate Starts for Bluvara_22:

(53, 21356), (Start: 57 @21377 has 102 MA's), (Start: 60 @21380 has 177 MA's), (69, 21404), (114, 21542), (131, 21584), (164, 21653), (192, 21713), (210, 21758), (226, 21803), (255, 21884), (270, 21941), (275, 21965), (299, 22070), (314, 22142), (333, 22187),

Gene: Bobquesha_30 Start: 24333, Stop: 25337, Start Num: 60

Candidate Starts for Bobquesha_30:

(Start: 60 @24333 has 177 MA's), (117, 24501), (136, 24546), (140, 24552), (166, 24606), (205, 24696), (213, 24717), (220, 24726), (274, 24858), (275, 24861), (308, 24999), (319, 25068), (385, 25272),

Gene: Bock_27 Start: 23324, Stop: 24391, Start Num: 63

Candidate Starts for Bock_27:

(Start: 63 @23324 has 17 MA's), (216, 23702), (263, 23843), (267, 23858), (275, 23894), (290, 23978), (325, 24125),

Gene: Boiiii_28 Start: 23358, Stop: 24371, Start Num: 57

Candidate Starts for Boiiii_28:

(10, 22914), (47, 23313), (Start: 57 @23358 has 102 MA's), (Start: 95 @23469 has 3 MA's), (140, 23583), (196, 23700), (212, 23742), (220, 23754), (255, 23808), (274, 23886), (294, 23982), (299, 23994), (307, 24024), (310, 24033), (343, 24147), (370, 24216),

Gene: Bongo_31 Start: 26992, Stop: 28047, Start Num: 60

Candidate Starts for Bongo_31:

(Start: 60 @26992 has 177 MA's), (135, 27205), (155, 27241), (185, 27304), (218, 27376), (226, 27406), (234, 27427), (249, 27463), (258, 27499), (270, 27547), (274, 27568), (276, 27574), (279, 27604), (280, 27607), (291, 27655), (352, 27844), (358, 27865), (375, 27919),

Gene: Bonum_48 Start: 35639, Stop: 36694, Start Num: 62

Candidate Starts for Bonum_48:

(44, 35576), (Start: 62 @35639 has 27 MA's), (136, 35852), (171, 35909), (222, 36035), (299, 36323), (393, 36668),

Gene: BoostSeason_25 Start: 21308, Stop: 22333, Start Num: 60

Candidate Starts for BoostSeason_25:

(34, 21224), (Start: 60 @21308 has 177 MA's), (93, 21413), (114, 21473), (136, 21527), (140, 21533), (177, 21614), (180, 21620), (186, 21635), (188, 21638), (276, 21842), (392, 22301), (393, 22310),

Gene: Bricole_31 Start: 26978, Stop: 28033, Start Num: 60

Candidate Starts for Bricole_31:

(Start: 60 @26978 has 177 MA's), (135, 27191), (155, 27227), (185, 27290), (218, 27362), (226, 27392), (234, 27413), (249, 27449), (258, 27485), (270, 27533), (274, 27554), (276, 27560), (279, 27590), (280, 27593), (291, 27641), (352, 27830), (358, 27851), (375, 27905),

Gene: BronnyJr_22 Start: 21730, Stop: 22797, Start Num: 60

Candidate Starts for BronnyJr_22:

(Start: 57 @21727 has 102 MA's), (Start: 60 @21730 has 177 MA's), (114, 21892), (131, 21934), (164, 22003), (192, 22063), (210, 22108), (226, 22153), (253, 22222), (255, 22234), (270, 22291), (275, 22315), (309, 22453), (310, 22456),

Gene: Brusacoram_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Brusacoram_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Bryler_28 Start: 22694, Stop: 23755, Start Num: 60

Candidate Starts for Bryler_28:

(Start: 60 @22694 has 177 MA's), (85, 22772), (87, 22775), (93, 22793), (134, 22901), (149, 22928), (153, 22934), (196, 23030), (201, 23042), (239, 23144), (254, 23195), (278, 23312), (349, 23555), (354, 23573), (370, 23612),

Gene: Brylie_27 Start: 23315, Stop: 24382, Start Num: 63

Candidate Starts for Brylie_27:

(Start: 63 @23315 has 17 MA's), (138, 23525), (216, 23693), (263, 23834), (267, 23849), (270, 23861), (275, 23885), (290, 23969), (301, 24005), (325, 24116),

Gene: Buggaboo_46 Start: 36118, Stop: 37173, Start Num: 62

Candidate Starts for Buggaboo_46:

(Start: 62 @36118 has 27 MA's), (136, 36331), (222, 36514), (299, 36802), (393, 37147),

Gene: Bunnies_22 Start: 21321, Stop: 22358, Start Num: 60

Candidate Starts for Bunnies_22:

(53, 21297), (Start: 57 @21318 has 102 MA's), (Start: 60 @21321 has 177 MA's), (69, 21345), (114, 21483), (131, 21525), (164, 21594), (192, 21654), (210, 21699), (226, 21744), (255, 21825), (270, 21882), (275, 21906), (299, 22011), (314, 22083), (333, 22128), (387, 22293),

Gene: Butters_22 Start: 19998, Stop: 21038, Start Num: 58

Candidate Starts for Butters_22:

(40, 19932), (Start: 58 @19998 has 5 MA's), (112, 20157), (114, 20163), (162, 20271), (164, 20274), (171, 20289), (210, 20379), (226, 20424), (255, 20505), (270, 20562), (275, 20586), (292, 20673), (299, 20691), (314, 20763), (333, 20808), (387, 20973),

Gene: CREW_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for CREW_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: CactusJack_22 Start: 21561, Stop: 22601, Start Num: 60

Candidate Starts for CactusJack_22:

(Start: 60 @21561 has 177 MA's), (112, 21720), (114, 21726), (131, 21768), (162, 21834), (164, 21837), (192, 21897), (210, 21942), (226, 21987), (255, 22068), (270, 22125), (275, 22149), (299, 22254), (314, 22326), (333, 22371),

Gene: Cain_28 Start: 22682, Stop: 23743, Start Num: 60

Candidate Starts for Cain_28:

(Start: 60 @22682 has 177 MA's), (85, 22760), (87, 22763), (93, 22781), (134, 22889), (149, 22916), (153, 22922), (196, 23018), (201, 23030), (239, 23132), (254, 23183), (278, 23300), (349, 23543), (354, 23561), (370, 23600),

Gene: CallaLilly_28 Start: 23279, Stop: 24292, Start Num: 57

Candidate Starts for CallaLilly_28:

(10, 22835), (47, 23234), (Start: 57 @23279 has 102 MA's), (140, 23504), (196, 23621), (212, 23663), (220, 23675), (255, 23729), (274, 23807), (294, 23903), (307, 23945), (310, 23954), (343, 24068), (370, 24137),

Gene: Camster_22 Start: 21300, Stop: 22367, Start Num: 60

Candidate Starts for Camster_22:

(53, 21276), (Start: 57 @21297 has 102 MA's), (Start: 60 @21300 has 177 MA's), (69, 21324), (114, 21462), (131, 21504), (164, 21573), (192, 21633), (210, 21678), (226, 21723), (253, 21792), (255, 21804), (270, 21861), (275, 21885), (313, 22056),

Gene: Capricorn_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Capricorn_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: CaseJules_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for CaseJules_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Chancellor_29 Start: 24596, Stop: 25600, Start Num: 60

Candidate Starts for Chancellor_29:

(Start: 60 @24596 has 177 MA's), (117, 24764), (136, 24809), (140, 24815), (166, 24869), (171, 24878), (205, 24959), (213, 24980), (219, 24986), (220, 24989), (274, 25121), (275, 25124), (303, 25247),

Gene: Charminar_31 Start: 27114, Stop: 28211, Start Num: 61

Candidate Starts for Charminar_31:

(Start: 61 @27114 has 33 MA's), (98, 27228), (134, 27321), (151, 27354), (152, 27357), (154, 27360), (161, 27381), (167, 27393), (192, 27441), (219, 27504), (236, 27558), (264, 27654), (273, 27696), (300, 27822), (320, 27930), (340, 27969), (368, 28056), (397, 28203),

Gene: Chavito_28 Start: 22750, Stop: 24003, Start Num: 26

Candidate Starts for Chavito_28:

(26, 22750), (27, 22756), (36, 22858), (49, 22921), (52, 22939), (Start: 95 @23074 has 3 MA's), (99, 23089), (110, 23125), (134, 23182), (136, 23188), (201, 23323), (207, 23341), (226, 23389), (253, 23407), (276, 23503), (292, 23584), (295, 23593), (307, 23632), (308, 23635), (367, 23833), (392, 23968),

Gene: Che9c_21 Start: 21007, Stop: 22053, Start Num: 60

Candidate Starts for Che9c_21:

(Start: 60 @21007 has 177 MA's), (135, 21220), (192, 21331), (210, 21373), (211, 21376), (236, 21445), (274, 21577), (279, 21613), (309, 21721), (358, 21874), (361, 21883), (368, 21895),

Gene: CheetoDust_28 Start: 23333, Stop: 24346, Start Num: 57

Candidate Starts for CheetoDust_28:

(10, 22889), (47, 23288), (Start: 57 @23333 has 102 MA's), (104, 23465), (140, 23558), (196, 23675), (212, 23717), (220, 23729), (255, 23783), (274, 23861), (294, 23957), (307, 23999), (310, 24008), (343, 24122), (370, 24191),

Gene: Cheetobro_29 Start: 24593, Stop: 25597, Start Num: 60

Candidate Starts for Cheetobro_29:

(Start: 60 @24593 has 177 MA's), (117, 24761), (136, 24806), (140, 24812), (166, 24866), (171, 24875), (205, 24956), (213, 24977), (219, 24983), (220, 24986), (274, 25118), (275, 25121), (303, 25244),

Gene: Chop_27 Start: 23849, Stop: 24916, Start Num: 63

Candidate Starts for Chop_27:

(Start: 63 @23849 has 17 MA's), (216, 24227), (263, 24368), (267, 24383), (270, 24395), (275, 24419), (290, 24503), (292, 24509), (302, 24542), (306, 24554), (325, 24650), (327, 24653), (341, 24674),

Gene: Chris_27 Start: 22610, Stop: 23596, Start Num: 60

Candidate Starts for Chris_27:

(Start: 60 @22610 has 177 MA's), (94, 22715), (116, 22778), (124, 22799), (140, 22832), (149, 22847), (174, 22907), (219, 23000), (233, 23039), (275, 23138), (288, 23189), (303, 23261), (310, 23282), (338, 23363), (374, 23465),

Gene: Chubbello_22 Start: 21298, Stop: 22335, Start Num: 60

Candidate Starts for Chubbello_22:

(53, 21274), (Start: 57 @21295 has 102 MA's), (Start: 60 @21298 has 177 MA's), (69, 21322), (114, 21460), (131, 21502), (164, 21571), (192, 21631), (210, 21676), (226, 21721), (255, 21802), (270, 21859), (275, 21883), (292, 21970), (299, 21988), (314, 22060), (333, 22105), (387, 22270),

Gene: Clipper_28 Start: 23333, Stop: 24346, Start Num: 57

Candidate Starts for Clipper_28:

(10, 22889), (47, 23288), (Start: 57 @23333 has 102 MA's), (Start: 95 @23444 has 3 MA's), (140, 23558), (196, 23675), (212, 23717), (220, 23729), (255, 23783), (274, 23861), (290, 23945), (294, 23957), (299, 23969), (307, 23999), (310, 24008), (343, 24122), (370, 24191),

Gene: Collard_27 Start: 24040, Stop: 25104, Start Num: 60

Candidate Starts for Collard_27:

(Start: 60 @24040 has 177 MA's), (89, 24130), (98, 24157), (121, 24220), (145, 24268), (161, 24307), (169, 24325), (192, 24370), (207, 24409), (226, 24457), (233, 24475), (258, 24550), (275, 24616), (292, 24706), (293, 24709), (294, 24712), (304, 24745), (324, 24844), (325, 24847), (359, 24931), (363, 24943), (390, 25060),

Gene: Cracklewink_28 Start: 26155, Stop: 27216, Start Num: 60

Candidate Starts for Cracklewink_28:

(Start: 60 @26155 has 177 MA's), (105, 26293), (113, 26314), (114, 26317), (134, 26365), (135, 26368), (169, 26443), (192, 26488), (210, 26530), (211, 26533), (220, 26551), (226, 26575), (232, 26587), (234, 26596), (236, 26602), (275, 26734), (292, 26824), (310, 26881), (328, 26956), (356, 27037), (395, 27199),

Gene: CrimD_28 Start: 23294, Stop: 24307, Start Num: 57

Candidate Starts for CrimD_28:

(Start: 57 @23294 has 102 MA's), (Start: 95 @23405 has 3 MA's), (140, 23519), (196, 23636), (212, 23678), (220, 23690), (255, 23744), (274, 23822), (290, 23906), (294, 23918), (299, 23930), (310, 23969), (388, 24248),

Gene: Curiosium_29 Start: 23069, Stop: 24148, Start Num: 60

Candidate Starts for Curiosium_29:

(Start: 60 @23069 has 177 MA's), (71, 23096), (97, 23183), (112, 23228), (118, 23243), (121, 23249), (131, 23276), (137, 23291), (161, 23336), (162, 23339), (168, 23351), (175, 23372), (192, 23399), (201, 23420), (226, 23486), (270, 23630), (274, 23651), (276, 23657), (318, 23855), (332, 23888), (336, 23897),

Gene: Dadosky_28 Start: 24011, Stop: 25075, Start Num: 60

Candidate Starts for Dadosky_28:

(Start: 60 @24011 has 177 MA's), (89, 24101), (99, 24131), (118, 24185), (121, 24191), (145, 24239), (161, 24278), (169, 24296), (171, 24299), (207, 24380), (226, 24428), (233, 24446), (275, 24587), (292, 24677), (293, 24680), (294, 24683), (304, 24716), (308, 24728), (324, 24815), (325, 24818), (363, 24914), (390, 25031),

Gene: Dalilpop_49 Start: 37250, Stop: 38311, Start Num: 60

Candidate Starts for Dalilpop_49:

(Start: 60 @37250 has 177 MA's), (94, 37358), (110, 37409), (122, 37436), (144, 37481), (177, 37544), (212, 37628), (221, 37649), (223, 37655), (233, 37682), (234, 37685), (289, 37910), (393, 38285),

Gene: Dalmuri_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Dalmuri_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: DanSyl44_30 Start: 25030, Stop: 26100, Start Num: 60

Candidate Starts for DanSyl44_30:

(Start: 57 @25027 has 102 MA's), (Start: 60 @25030 has 177 MA's), (150, 25270), (164, 25306), (168, 25315), (171, 25321), (192, 25366), (210, 25411), (219, 25429), (226, 25456), (255, 25537), (270, 25594), (275, 25618),

Gene: Daredevil_37 Start: 34603, Stop: 35670, Start Num: 60

Candidate Starts for Daredevil_37:

(Start: 60 @34603 has 177 MA's), (197, 34948), (217, 34993), (227, 35023), (304, 35314), (306, 35320), (311, 35338), (323, 35404), (324, 35407), (339, 35425), (354, 35473), (396, 35659),

Gene: DartGoblin_28 Start: 23374, Stop: 24276, Start Num: 95

Candidate Starts for DartGoblin_28:

(47, 23218), (Start: 57 @23263 has 102 MA's), (Start: 72 @23296 has 1 MA's), (Start: 95 @23374 has 3 MA's), (140, 23488), (196, 23605), (212, 23647), (220, 23659), (255, 23713), (274, 23791), (290, 23875), (294, 23887), (299, 23899), (310, 23938), (316, 23974), (370, 24121), (388, 24217),

Gene: DarthP_27 Start: 23700, Stop: 24704, Start Num: 57

Candidate Starts for DarthP_27:

(Start: 57 @23700 has 102 MA's), (196, 24042), (261, 24174), (269, 24201), (292, 24315), (336, 24468), (370, 24561), (371, 24564), (382, 24627), (385, 24639),

Gene: Dartin_28 Start: 22728, Stop: 23693, Start Num: 57

Candidate Starts for Dartin_28:

(Start: 57 @22728 has 102 MA's), (Start: 62 @22734 has 27 MA's), (110, 22887), (117, 22905), (124, 22923), (140, 22956), (161, 22998), (187, 23058), (196, 23073), (274, 23259), (275, 23262), (289, 23334), (310, 23403), (322, 23451), (328, 23466), (347, 23499), (361, 23538), (389, 23637),

Gene: DaviePasture_33 Start: 29342, Stop: 30391, Start Num: 61

Candidate Starts for DaviePasture_33:

(Start: 61 @29342 has 33 MA's), (98, 29456), (105, 29477), (133, 29552), (139, 29567), (169, 29630), (250, 29831), (255, 29855), (295, 30026), (363, 30239), (370, 30254), (380, 30299),

Gene: Deby_28 Start: 23290, Stop: 24303, Start Num: 57

Candidate Starts for Deby_28:

(Start: 57 @23290 has 102 MA's), (Start: 95 @23401 has 3 MA's), (140, 23515), (196, 23632), (220, 23686), (255, 23740), (274, 23818), (294, 23914), (299, 23926), (307, 23956), (310, 23965), (343, 24079), (370, 24148),

Gene: DelRio_28 Start: 24323, Stop: 25387, Start Num: 63

Candidate Starts for DelRio_28:

(Start: 63 @24323 has 17 MA's), (216, 24701), (263, 24842), (267, 24854), (270, 24866), (275, 24890), (290, 24974), (302, 25013), (325, 25121),

Gene: Demikore_38 Start: 32041, Stop: 33081, Start Num: 65

Candidate Starts for Demikore_38:

(Start: 65 @32041 has 3 MA's), (88, 32119), (113, 32197), (212, 32410), (216, 32416), (246, 32494), (270, 32587), (276, 32614),

Gene: Devera_28 Start: 23337, Stop: 24350, Start Num: 57

Candidate Starts for Devera_28:

(Start: 57 @23337 has 102 MA's), (Start: 95 @23448 has 3 MA's), (98, 23457), (140, 23562), (184, 23658), (196, 23679), (212, 23721), (220, 23733), (255, 23787), (274, 23865), (294, 23961), (299, 23973), (310, 24012), (343, 24126), (370, 24195), (388, 24291),

Gene: Diminimus_32 Start: 26991, Stop: 28046, Start Num: 60

Candidate Starts for Diminimus_32:

(Start: 60 @26991 has 177 MA's), (135, 27204), (155, 27240), (185, 27303), (218, 27375), (226, 27405), (234, 27426), (249, 27462), (258, 27498), (270, 27546), (274, 27567), (276, 27573), (279, 27603), (280, 27606), (291, 27654), (358, 27864), (375, 27918),

Gene: DismalFunk_25 Start: 21282, Stop: 22277, Start Num: 60

Candidate Starts for DismalFunk_25:

(18, 20961), (24, 21099), (34, 21198), (Start: 60 @21282 has 177 MA's), (84, 21363), (93, 21387), (114, 21447), (136, 21501), (140, 21507), (186, 21609), (188, 21612), (210, 21660), (212, 21666), (229, 21708), (255, 21732), (276, 21816), (292, 21900), (310, 21957), (393, 22254),

Gene: DismalStressor_25 Start: 21282, Stop: 22277, Start Num: 60

Candidate Starts for DismalStressor_25:

(24, 21099), (34, 21198), (Start: 60 @21282 has 177 MA's), (84, 21363), (93, 21387), (114, 21447), (136, 21501), (140, 21507), (186, 21609), (188, 21612), (210, 21660), (212, 21666), (229, 21708), (255, 21732), (276, 21816), (292, 21900), (310, 21957), (393, 22254),

Gene: Dogfish_30 Start: 26617, Stop: 27699, Start Num: 62

Candidate Starts for Dogfish_30:

(Start: 62 @26617 has 27 MA's), (133, 26827), (168, 26905), (191, 26959), (208, 27004), (232, 27061), (233, 27067), (255, 27130), (270, 27187), (273, 27202), (299, 27319),

Gene: Dole_28 Start: 23339, Stop: 24352, Start Num: 57

Candidate Starts for Dole_28:

(Start: 57 @23339 has 102 MA's), (Start: 95 @23450 has 3 MA's), (98, 23459), (140, 23564), (184, 23660), (196, 23681), (212, 23723), (220, 23735), (255, 23789), (274, 23867), (294, 23963), (299, 23975), (310, 24014), (343, 24128), (370, 24197), (388, 24293),

Gene: Donovan_22 Start: 21288, Stop: 22325, Start Num: 60

Candidate Starts for Donovan_22:

(53, 21264), (Start: 57 @21285 has 102 MA's), (Start: 60 @21288 has 177 MA's), (69, 21312), (114, 21450), (131, 21492), (164, 21561), (192, 21621), (210, 21666), (226, 21711), (255, 21792), (270, 21849), (275, 21873), (299, 21978), (314, 22050), (333, 22095), (387, 22260),

Gene: DoobyDoo_32 Start: 28492, Stop: 29541, Start Num: 61

Candidate Starts for DoobyDoo_32:

(Start: 61 @28492 has 33 MA's), (85, 28567), (98, 28606), (105, 28627), (133, 28702), (139, 28717), (169, 28780), (195, 28840), (233, 28942), (295, 29176), (370, 29404),

Gene: DoubleChamp_27 Start: 24040, Stop: 25104, Start Num: 60

Candidate Starts for DoubleChamp_27:

(Start: 60 @24040 has 177 MA's), (89, 24130), (98, 24157), (121, 24220), (145, 24268), (161, 24307), (169, 24325), (192, 24370), (207, 24409), (226, 24457), (233, 24475), (258, 24550), (275, 24616), (292, 24706), (293, 24709), (294, 24712), (304, 24745), (324, 24844), (325, 24847), (359, 24931), (363, 24943), (390, 25060),

Gene: Doughnut_25 Start: 21302, Stop: 22327, Start Num: 60

Candidate Starts for Doughnut_25:

(34, 21218), (Start: 60 @21302 has 177 MA's), (93, 21407), (114, 21467), (136, 21521), (140, 21527), (177, 21608), (180, 21614), (186, 21629), (188, 21632), (276, 21836), (392, 22295), (393, 22304),

Gene: DrHayes_28 Start: 23284, Stop: 24297, Start Num: 57

Candidate Starts for DrHayes_28:

(47, 23239), (Start: 57 @23284 has 102 MA's), (Start: 95 @23395 has 3 MA's), (140, 23509), (196, 23626), (212, 23668), (220, 23680), (255, 23734), (274, 23812), (294, 23908), (299, 23920), (310, 23959), (316, 23995), (370, 24142), (388, 24238),

Gene: Dulcita_32 Start: 26991, Stop: 28046, Start Num: 60

Candidate Starts for Dulcita_32:

(Start: 60 @26991 has 177 MA's), (135, 27204), (155, 27240), (185, 27303), (218, 27375), (226, 27405), (234, 27426), (249, 27462), (258, 27498), (270, 27546), (274, 27567), (276, 27573), (279, 27603), (280, 27606), (291, 27654), (358, 27864), (375, 27918),

Gene: DumpsterDude_23 Start: 21990, Stop: 23072, Start Num: 60

Candidate Starts for DumpsterDude_23:

(33, 21855), (Start: 60 @21990 has 177 MA's), (82, 22062), (133, 22200), (148, 22230), (195, 22338), (210, 22380), (232, 22434), (270, 22560),

Gene: Durfee_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Durfee_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Dynamo_22 Start: 21688, Stop: 22722, Start Num: 60

Candidate Starts for Dynamo_22:

(Start: 60 @21688 has 177 MA's), (112, 21844), (114, 21850), (162, 21958), (164, 21961), (171, 21976), (210, 22063), (226, 22108), (255, 22189), (270, 22246), (275, 22270), (299, 22375), (314, 22447), (333, 22492),

Gene: Edugator_27 Start: 24010, Stop: 25074, Start Num: 60

Candidate Starts for Edugator_27:

(Start: 60 @24010 has 177 MA's), (89, 24100), (99, 24130), (118, 24184), (121, 24190), (145, 24238), (161, 24277), (169, 24295), (171, 24298), (207, 24379), (226, 24427), (233, 24445), (275, 24586), (292, 24676), (293, 24679), (294, 24682), (304, 24715), (308, 24727), (324, 24814), (325, 24817), (390, 25030),

Gene: Efra2_28 Start: 22526, Stop: 23587, Start Num: 57

Candidate Starts for Efra2_28:

(Start: 57 @22526 has 102 MA's), (Start: 95 @22640 has 3 MA's), (140, 22754), (153, 22775), (185, 22853), (190, 22862), (201, 22883), (204, 22889), (260, 22997), (274, 23057), (296, 23177), (297, 23183), (298, 23189), (315, 23279), (360, 23405), (364, 23420),

Gene: Ekdilam_25 Start: 23459, Stop: 24463, Start Num: 57

Candidate Starts for Ekdilam_25:

(Start: 57 @23459 has 102 MA's), (124, 23651), (134, 23672), (153, 23705), (166, 23738), (196, 23801), (261, 23933), (269, 23960), (292, 24074), (336, 24227), (370, 24320), (382, 24386),

Gene: Ellie_25 Start: 23458, Stop: 24465, Start Num: 57

Candidate Starts for Ellie_25:

(Start: 57 @23458 has 102 MA's), (88, 23548), (Start: 95 @23569 has 3 MA's), (124, 23650), (140, 23683), (153, 23704), (275, 23989), (282, 24028), (382, 24388), (395, 24448),

Gene: Emerson_28 Start: 23316, Stop: 24329, Start Num: 57

Candidate Starts for Emerson_28:

(10, 22872), (47, 23271), (Start: 57 @23316 has 102 MA's), (140, 23541), (196, 23658), (212, 23700), (220, 23712), (255, 23766), (274, 23844), (294, 23940), (299, 23952), (307, 23982), (310, 23991), (343, 24105), (370, 24174),

Gene: Emianna_44 Start: 35974, Stop: 37032, Start Num: 62

Candidate Starts for Emianna_44:

(1, 34534), (2, 34831), (3, 35062), (6, 35431), (29, 35809), (31, 35824), (33, 35842), (Start: 62 @35974 has 27 MA's), (201, 36319), (221, 36370), (238, 36418),

Gene: Enkosi_24 Start: 22900, Stop: 23907, Start Num: 60

Candidate Starts for Enkosi_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Ennea_51 Start: 36974, Stop: 38035, Start Num: 62

Candidate Starts for Ennea_51:

(Start: 62 @36974 has 27 MA's), (123, 37160), (211, 37346), (212, 37349), (276, 37559),

Gene: Eponine_29 Start: 24914, Stop: 25987, Start Num: 57

Candidate Starts for Eponine_29:

(Start: 57 @24914 has 102 MA's), (Start: 60 @24917 has 177 MA's), (150, 25157), (164, 25193), (168, 25202), (171, 25208), (192, 25253), (210, 25298), (219, 25316), (226, 25343), (255, 25424), (270, 25481), (275, 25505),

Gene: Erutan_33 Start: 29002, Stop: 30048, Start Num: 61

Candidate Starts for Erutan_33:

(Start: 61 @29002 has 33 MA's), (98, 29116), (105, 29137), (133, 29212), (139, 29227), (169, 29290), (255, 29515), (295, 29686), (309, 29731), (370, 29914),

Gene: Estes_36 Start: 28017, Stop: 29099, Start Num: 48

Candidate Starts for Estes_36:

(45, 28011), (Start: 48 @28017 has 6 MA's), (70, 28092), (81, 28137), (83, 28143), (86, 28149), (91, 28167), (109, 28212), (114, 28227), (121, 28242), (130, 28266), (140, 28287), (165, 28341), (167, 28347), (178, 28377), (249, 28521),

Gene: Etoile_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Etoile_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Ewald_30 Start: 26639, Stop: 27724, Start Num: 60

Candidate Starts for Ewald_30:

(33, 26504), (Start: 60 @26639 has 177 MA's), (Start: 95 @26744 has 3 MA's), (102, 26762), (133, 26849), (223, 27062), (228, 27077), (241, 27104), (246, 27119), (270, 27212), (273, 27227), (286, 27284), (299, 27344), (308, 27377),

Gene: FF47_25 Start: 21654, Stop: 22679, Start Num: 56

Candidate Starts for FF47_25:

(Start: 56 @21654 has 2 MA's), (88, 21744), (113, 21813), (116, 21822), (156, 21900), (179, 21963), (181, 21966), (246, 22110), (255, 22146), (278, 22254), (349, 22491), (388, 22617),

Gene: Faiyaz_28 Start: 26025, Stop: 27062, Start Num: 60

Candidate Starts for Faiyaz_28:

(Start: 60 @26025 has 177 MA's), (101, 26148), (121, 26202), (135, 26238), (168, 26301), (192, 26349), (216, 26403), (218, 26406), (274, 26592), (279, 26628), (289, 26670), (294, 26688), (310, 26739),

Gene: Farewell_21 Start: 21884, Stop: 22930, Start Num: 60

Candidate Starts for Farewell_21:

(Start: 60 @21884 has 177 MA's), (125, 22076), (135, 22097), (192, 22208), (210, 22250), (211, 22253), (274, 22454), (279, 22490), (309, 22598), (358, 22751), (361, 22760), (368, 22772),

Gene: Fefferhead_27 Start: 23613, Stop: 24665, Start Num: 57

Candidate Starts for Fefferhead_27:

(51, 23577), (Start: 57 @23613 has 102 MA's), (88, 23703), (Start: 95 @23724 has 3 MA's), (105, 23751), (140, 23838), (153, 23859), (161, 23880), (239, 24069), (261, 24147), (275, 24204), (278, 24237), (285, 24252), (362, 24507), (370, 24522), (383, 24603), (393, 24642),

Gene: Feyre_27 Start: 23851, Stop: 24918, Start Num: 60

Candidate Starts for Feyre_27:

(Start: 60 @23851 has 177 MA's), (98, 23968), (137, 24073), (145, 24079), (171, 24139), (175, 24154), (192, 24181), (207, 24220), (209, 24223), (216, 24235), (218, 24238), (219, 24241), (223, 24256), (239, 24301), (243, 24307), (258, 24361), (270, 24409), (277, 24439), (287, 24484), (327, 24667),

Gene: Findley_25 Start: 21282, Stop: 22307, Start Num: 60

Candidate Starts for Findley_25:

(24, 21099), (34, 21198), (Start: 60 @21282 has 177 MA's), (84, 21363), (93, 21387), (114, 21447), (136, 21501), (140, 21507), (177, 21588), (180, 21594), (186, 21609), (188, 21612), (276, 21816), (392, 22275), (393, 22284),

Gene: Fionnbharth_29 Start: 24586, Stop: 25590, Start Num: 60

Candidate Starts for Fionnbharth_29:

(Start: 60 @24586 has 177 MA's), (Start: 80 @24655 has 1 MA's), (117, 24754), (136, 24799), (140, 24805), (166, 24859), (171, 24868), (187, 24904), (205, 24949), (213, 24970), (219, 24976), (220, 24979), (274, 25111), (275, 25114), (303, 25237), (310, 25258), (385, 25525),

Gene: FirstPlacePfu_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for FirstPlacePfu_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Fishburne_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Fishburne_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Flapper_49 Start: 36682, Stop: 37743, Start Num: 60

Candidate Starts for Flapper_49:

(22, 36406), (44, 36619), (Start: 60 @36682 has 177 MA's), (94, 36790), (122, 36868), (177, 36976), (212, 37060), (221, 37081), (223, 37087), (233, 37114), (289, 37342), (309, 37408), (385, 37672), (393, 37717),

Gene: Float294_47 Start: 36416, Stop: 37477, Start Num: 62

Candidate Starts for Float294_47:

(Start: 62 @36416 has 27 MA's), (123, 36602), (211, 36788), (212, 36791), (276, 37001), (373, 37340), (385, 37406),

Gene: Foxboro_45 Start: 36480, Stop: 37538, Start Num: 62

Candidate Starts for Foxboro_45:

(1, 35040), (2, 35337), (3, 35568), (6, 35937), (29, 36315), (31, 36330), (33, 36348), (Start: 62 @36480 has 27 MA's), (201, 36825), (221, 36876), (238, 36924),

Gene: Francois_27 Start: 23338, Stop: 24405, Start Num: 63

Candidate Starts for Francois_27:

(Start: 63 @23338 has 17 MA's), (216, 23716), (263, 23857), (270, 23884), (275, 23908), (290, 23992), (325, 24139),

Gene: FreakyGoo_32 Start: 26992, Stop: 28047, Start Num: 60

Candidate Starts for FreakyGoo_32:

(Start: 60 @26992 has 177 MA's), (135, 27205), (155, 27241), (185, 27304), (218, 27376), (226, 27406), (234, 27427), (249, 27463), (258, 27499), (270, 27547), (274, 27568), (276, 27574), (279, 27604), (280, 27607), (291, 27655), (352, 27844), (358, 27865), (375, 27919),

Gene: Fulcrum_34 Start: 29520, Stop: 30569, Start Num: 61

Candidate Starts for Fulcrum_34:

(Start: 61 @29520 has 33 MA's), (98, 29634), (105, 29655), (133, 29730), (139, 29745), (169, 29808), (195, 29868), (233, 29970), (255, 30033), (295, 30204), (370, 30432),

Gene: Fury_53 Start: 35397, Stop: 36479, Start Num: 60

Candidate Starts for Fury_53:

(Start: 60 @35397 has 177 MA's), (98, 35514), (193, 35742), (225, 35826), (228, 35832), (243, 35871), (248, 35886), (259, 35928), (295, 36093), (351, 36273), (385, 36411),

Gene: GMA7_23 Start: 30667, Stop: 31671, Start Num: 66

Candidate Starts for GMA7_23:

(Start: 66 @30667 has 3 MA's), (81, 30715), (90, 30733), (124, 30829), (129, 30838), (168, 30904), (203, 30985), (259, 31138), (269, 31165), (273, 31186), (293, 31288), (322, 31414), (370, 31516), (393, 31648),

Gene: GOATification_34 Start: 29520, Stop: 30569, Start Num: 61

Candidate Starts for GOATification_34:

(Start: 61 @29520 has 33 MA's), (98, 29634), (105, 29655), (133, 29730), (139, 29745), (169, 29808), (195, 29868), (233, 29970), (255, 30033), (295, 30204), (370, 30432),

Gene: GRU1_34 Start: 28214, Stop: 29290, Start Num: 60

Candidate Starts for GRU1_34:

(29, 28052), (Start: 60 @28214 has 177 MA's), (94, 28322), (110, 28373), (122, 28400), (177, 28508), (212, 28592), (221, 28613), (223, 28619), (233, 28646), (289, 28874), (373, 29153), (393, 29264),

Gene: GTE5_36 Start: 29539, Stop: 30600, Start Num: 60

Candidate Starts for GTE5_36:

(44, 29476), (Start: 60 @29539 has 177 MA's), (94, 29647), (122, 29725), (177, 29833), (212, 29917), (221, 29938), (225, 29950), (233, 29971), (234, 29974), (385, 30529), (393, 30574),

Gene: GTE7_23 Start: 30698, Stop: 31702, Start Num: 66

Candidate Starts for GTE7_23:

(Start: 66 @30698 has 3 MA's), (81, 30746), (90, 30764), (117, 30842), (124, 30860), (129, 30869), (168, 30935), (203, 31016), (259, 31169), (269, 31196), (273, 31217), (293, 31319), (322, 31445), (370, 31547), (393, 31679),

Gene: GTE8_33 Start: 29229, Stop: 30287, Start Num: 60

Candidate Starts for GTE8_33:

(29, 29067), (Start: 60 @29229 has 177 MA's), (136, 29445), (222, 29628), (385, 30216), (393, 30261),

Gene: GaloreK_22 Start: 21295, Stop: 22332, Start Num: 60

Candidate Starts for GaloreK_22:

(53, 21271), (Start: 57 @21292 has 102 MA's), (Start: 60 @21295 has 177 MA's), (69, 21319), (114, 21457), (131, 21499), (164, 21568), (192, 21628), (210, 21673), (226, 21718), (255, 21799), (270, 21856), (275, 21880), (299, 21985), (314, 22057), (333, 22102), (387, 22267),

Gene: Ganymede_29 Start: 23336, Stop: 24349, Start Num: 57

Candidate Starts for Ganymede_29:

(10, 22892), (47, 23291), (Start: 57 @23336 has 102 MA's), (Start: 95 @23447 has 3 MA's), (140, 23561), (196, 23678), (212, 23720), (220, 23732), (252, 23771), (255, 23786), (274, 23864), (290, 23948), (294, 23960), (299, 23972), (310, 24011), (343, 24125), (370, 24194),

Gene: GardenSalsa_35 Start: 27841, Stop: 28923, Start Num: 48

Candidate Starts for GardenSalsa_35:

(45, 27835), (Start: 48 @27841 has 6 MA's), (70, 27916), (81, 27961), (83, 27967), (86, 27973), (91, 27991), (109, 28036), (114, 28051), (121, 28066), (130, 28090), (140, 28111), (165, 28165), (167, 28171), (178, 28201), (249, 28345), (258, 28381), (391, 28879),

Gene: Gavriela_22 Start: 21561, Stop: 22601, Start Num: 60

Candidate Starts for Gavriela_22:

(Start: 60 @21561 has 177 MA's), (112, 21720), (114, 21726), (131, 21768), (162, 21834), (164, 21837), (192, 21897), (210, 21942), (226, 21987), (255, 22068), (270, 22125), (275, 22149), (299, 22254), (314, 22326), (333, 22371),

Gene: Genamy16_33 Start: 27521, Stop: 28618, Start Num: 61

Candidate Starts for Genamy16_33:

(Start: 61 @27521 has 33 MA's), (98, 27635), (134, 27728), (151, 27761), (152, 27764), (154, 27767), (160, 27785), (161, 27788), (167, 27800), (192, 27848), (219, 27911), (236, 27965), (264, 28061), (273, 28103), (320, 28337), (340, 28376), (368, 28463), (397, 28610),

Gene: GenevaB15_35 Start: 27886, Stop: 28968, Start Num: 48

Candidate Starts for GenevaB15_35:

(41, 27865), (45, 27880), (Start: 48 @27886 has 6 MA's), (70, 27961), (81, 28006), (83, 28012), (86, 28018), (91, 28036), (Start: 95 @28045 has 3 MA's), (114, 28096), (121, 28111), (130, 28135), (140, 28156), (165, 28210), (167, 28216), (190, 28270), (258, 28426), (372, 28837),

Gene: Gengar_27 Start: 23958, Stop: 25028, Start Num: 60

Candidate Starts for Gengar_27:

(Start: 60 @23958 has 177 MA's), (118, 24132), (145, 24186), (169, 24243), (171, 24246), (175, 24261), (192, 24288), (207, 24327), (209, 24330), (216, 24342), (218, 24345), (219, 24348), (243, 24417), (258, 24471), (277, 24549), (287, 24594), (327, 24777),

Gene: Geraldini_28 Start: 23332, Stop: 24345, Start Num: 57

Candidate Starts for Geraldini_28:

(10, 22888), (47, 23287), (Start: 57 @23332 has 102 MA's), (Start: 95 @23443 has 3 MA's), (136, 23551), (140, 23557), (196, 23674), (212, 23716), (220, 23728), (255, 23782), (274, 23860), (290, 23944), (294, 23956), (299, 23968), (310, 24007), (343, 24121), (370, 24190),

Gene: Gibbin_34 Start: 29619, Stop: 30668, Start Num: 61

Candidate Starts for Gibbin_34:

(Start: 61 @29619 has 33 MA's), (98, 29733), (112, 29775), (133, 29829), (139, 29844), (169, 29907), (295, 30303), (309, 30348), (332, 30438), (370, 30531),

Gene: Glaske_22 Start: 21561, Stop: 22601, Start Num: 60

Candidate Starts for Glaske_22:

(Start: 60 @21561 has 177 MA's), (112, 21720), (114, 21726), (131, 21768), (162, 21834), (164, 21837), (192, 21897), (210, 21942), (226, 21987), (255, 22068), (270, 22125), (275, 22149), (299, 22254), (314, 22326), (333, 22371),

Gene: Glaske16_32 Start: 26991, Stop: 28046, Start Num: 60

Candidate Starts for Glaske16_32:

(Start: 60 @26991 has 177 MA's), (135, 27204), (155, 27240), (185, 27303), (218, 27375), (226, 27405), (234, 27426), (249, 27462), (258, 27498), (270, 27546), (274, 27567), (276, 27573), (279, 27603), (280, 27606), (291, 27654), (358, 27864), (375, 27918),

Gene: GrandSlam_27 Start: 23849, Stop: 24916, Start Num: 63

Candidate Starts for GrandSlam_27:

(Start: 63 @23849 has 17 MA's), (216, 24227), (263, 24368), (267, 24383), (270, 24395), (275, 24419), (290, 24503), (292, 24509), (302, 24542), (306, 24554), (325, 24650), (327, 24653), (341, 24674),

Gene: Gretellyn_33 Start: 29878, Stop: 30933, Start Num: 61

Candidate Starts for Gretellyn_33:

(Start: 61 @29878 has 33 MA's), (98, 29992), (112, 30034), (133, 30088), (139, 30103), (169, 30166), (195, 30226), (233, 30328), (255, 30391), (295, 30562), (370, 30796),

Gene: GrootJr_46 Start: 35356, Stop: 36414, Start Num: 62

Candidate Starts for GrootJr_46:

(1, 33916), (2, 34213), (3, 34444), (6, 34813), (29, 35191), (31, 35206), (33, 35224), (Start: 62 @35356 has 27 MA's), (201, 35701), (221, 35752), (238, 35800),

Gene: Gsput1_26 Start: 21693, Stop: 22775, Start Num: 62

Candidate Starts for Gsput1_26:

(Start: 62 @21693 has 27 MA's), (114, 21855), (135, 21903), (142, 21915), (183, 22017), (208, 22077), (222, 22110), (228, 22125), (243, 22164), (265, 22248), (272, 22278), (275, 22290), (310, 22437), (350, 22563), (370, 22620), (392, 22743),

Gene: Guanica15_28 Start: 22542, Stop: 23603, Start Num: 57

Candidate Starts for Guanica15_28:

(Start: 57 @22542 has 102 MA's), (Start: 95 @22656 has 3 MA's), (140, 22770), (153, 22791), (190, 22878), (201, 22899), (204, 22905), (260, 23013), (274, 23073), (296, 23193), (297, 23199), (298, 23205), (315, 23295), (360, 23421), (364, 23436),

Gene: Guillsminger_27 Start: 23933, Stop: 25000, Start Num: 60

Candidate Starts for Guillsminger_27:

(Start: 60 @23933 has 177 MA's), (98, 24050), (118, 24107), (137, 24155), (145, 24161), (169, 24218), (171, 24221), (175, 24236), (192, 24263), (207, 24302), (209, 24305), (216, 24317), (218, 24320), (219, 24323), (223, 24338), (239, 24383), (243, 24389), (258, 24443), (270, 24491), (277, 24521),

(287, 24566), (314, 24695), (327, 24749),

Gene: HC_22 Start: 21369, Stop: 22406, Start Num: 60

Candidate Starts for HC_22:

(53, 21345), (Start: 57 @21366 has 102 MA's), (Start: 60 @21369 has 177 MA's), (69, 21393), (114, 21531), (131, 21573), (164, 21642), (192, 21702), (210, 21747), (226, 21792), (255, 21873), (270, 21930), (275, 21954), (299, 22059), (314, 22131), (333, 22176), (387, 22341),

Gene: HUHilltop_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for HUHilltop_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Hammy_27 Start: 23691, Stop: 24695, Start Num: 57

Candidate Starts for Hammy_27:

(Start: 57 @23691 has 102 MA's), (170, 23976), (196, 24033), (261, 24165), (269, 24192), (292, 24306), (336, 24459), (370, 24552), (371, 24555), (382, 24618), (385, 24630),

Gene: Hamood_27 Start: 23849, Stop: 24916, Start Num: 63

Candidate Starts for Hamood_27:

(Start: 63 @23849 has 17 MA's), (216, 24227), (263, 24368), (267, 24383), (270, 24395), (275, 24419), (290, 24503), (292, 24509), (302, 24542), (306, 24554), (325, 24650), (327, 24653), (341, 24674),

Gene: HayZem_32 Start: 36450, Stop: 37454, Start Num: 66

Candidate Starts for HayZem_32:

(Start: 66 @36450 has 3 MA's), (81, 36498), (90, 36516), (124, 36612), (129, 36621), (168, 36687), (203, 36768), (259, 36921), (269, 36948), (273, 36969), (293, 37071), (322, 37197), (370, 37299), (393, 37431),

Gene: HedwigODU_28 Start: 23325, Stop: 24338, Start Num: 57

Candidate Starts for HedwigODU_28:

(10, 22881), (21, 23028), (47, 23280), (Start: 57 @23325 has 102 MA's), (Start: 95 @23436 has 3 MA's), (140, 23550), (196, 23667), (212, 23709), (220, 23721), (255, 23775), (274, 23853), (294, 23949), (299, 23961), (307, 23991), (310, 24000), (343, 24114), (370, 24183),

Gene: Heftyboy_27 Start: 24081, Stop: 25148, Start Num: 60

Candidate Starts for Heftyboy_27:

(Start: 60 @24081 has 177 MA's), (98, 24198), (118, 24255), (137, 24303), (145, 24309), (169, 24366), (171, 24369), (175, 24384), (192, 24411), (207, 24450), (209, 24453), (216, 24465), (218, 24468), (219, 24471), (223, 24486), (239, 24531), (243, 24537), (258, 24591), (270, 24639), (277, 24669), (287, 24714), (314, 24843), (327, 24897),

Gene: Hilltopfarm_28 Start: 26055, Stop: 27092, Start Num: 60

Candidate Starts for Hilltopfarm_28:

(Start: 60 @26055 has 177 MA's), (101, 26178), (121, 26232), (135, 26268), (168, 26331), (192, 26379), (216, 26433), (218, 26436), (274, 26622), (279, 26658), (289, 26700), (294, 26718), (310, 26769),

Gene: HomeFry_50 Start: 34029, Stop: 35111, Start Num: 60

Candidate Starts for HomeFry_50:

(Start: 60 @34029 has 177 MA's), (98, 34146), (177, 34341), (260, 34566),

Gene: Homura_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Homura_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Hurricane_28 Start: 23950, Stop: 24975, Start Num: 60

Candidate Starts for Hurricane_28:

(5, 23398), (7, 23464), (9, 23527), (12, 23560), (15, 23602), (24, 23761), (34, 23860), (43, 23917), (Start: 60 @23950 has 177 MA's), (103, 24073), (105, 24082), (114, 24109), (134, 24157), (140, 24169), (153, 24190), (173, 24241), (187, 24271), (263, 24424), (269, 24445), (284, 24517), (290, 24553), (295, 24568), (308, 24610), (310, 24616), (330, 24706), (365, 24805), (366, 24808), (384, 24907), (395, 24958),

Gene: Hyperbowlee_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Hyperbowlee_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: IPhone7_31 Start: 26992, Stop: 28047, Start Num: 60

Candidate Starts for IPhone7_31:

(Start: 60 @26992 has 177 MA's), (135, 27205), (155, 27241), (185, 27304), (218, 27376), (226, 27406), (234, 27427), (249, 27463), (258, 27499), (270, 27547), (274, 27568), (276, 27574), (279, 27604), (280, 27607), (291, 27655), (352, 27844), (358, 27865), (375, 27919),

Gene: IdentityCrisis_21 Start: 19031, Stop: 20086, Start Num: 60

Candidate Starts for IdentityCrisis_21:

(Start: 60 @19031 has 177 MA's), (98, 19148), (171, 19322), (223, 19439), (224, 19445), (275, 19610), (294, 19703), (309, 19751), (315, 19787), (350, 19880),

Gene: Illumine_28 Start: 23339, Stop: 24352, Start Num: 57

Candidate Starts for Illumine_28:

(Start: 57 @23339 has 102 MA's), (Start: 95 @23450 has 3 MA's), (98, 23459), (140, 23564), (184, 23660), (196, 23681), (212, 23723), (220, 23735), (255, 23789), (274, 23867), (294, 23963), (299, 23975), (310, 24014), (343, 24128), (370, 24197), (388, 24293),

Gene: Impisi_22 Start: 20207, Stop: 21247, Start Num: 60

Candidate Starts for Impisi_22:

(Start: 60 @20207 has 177 MA's), (114, 20372), (131, 20414), (164, 20483), (192, 20543), (210, 20588), (226, 20633), (253, 20702), (255, 20714), (270, 20771), (275, 20795), (299, 20900), (314, 20972), (333, 21017),

Gene: Inky_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Inky_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: InvictusManeo_27 Start: 24083, Stop: 25147, Start Num: 60

Candidate Starts for InvictusManeo_27:

(Start: 60 @24083 has 177 MA's), (89, 24173), (98, 24200), (121, 24263), (145, 24311), (161, 24350), (169, 24368), (192, 24413), (207, 24452), (226, 24500), (233, 24518), (258, 24593), (275, 24659),

(292, 24749), (293, 24752), (294, 24755), (304, 24788), (324, 24887), (325, 24890), (359, 24974), (363, 24986), (390, 25103),

Gene: Izel_32 Start: 26991, Stop: 28046, Start Num: 60

Candidate Starts for Izel_32:

(Start: 60 @26991 has 177 MA's), (135, 27204), (155, 27240), (185, 27303), (218, 27375), (226, 27405), (234, 27426), (249, 27462), (258, 27498), (270, 27546), (274, 27567), (276, 27573), (279, 27603), (280, 27606), (291, 27654), (358, 27864), (375, 27918),

Gene: JAWS_28 Start: 23310, Stop: 24323, Start Num: 57

Candidate Starts for JAWS_28:

(10, 22866), (47, 23265), (Start: 57 @23310 has 102 MA's), (Start: 95 @23421 has 3 MA's), (140, 23535), (196, 23652), (212, 23694), (220, 23706), (255, 23760), (274, 23838), (294, 23934), (307, 23976), (310, 23985), (343, 24099), (370, 24168),

Gene: JF1_29 Start: 24585, Stop: 25589, Start Num: 60

Candidate Starts for JF1_29:

(Start: 60 @24585 has 177 MA's), (Start: 80 @24654 has 1 MA's), (117, 24753), (136, 24798), (140, 24804), (166, 24858), (171, 24867), (187, 24903), (205, 24948), (213, 24969), (219, 24975), (220, 24978), (274, 25110), (275, 25113), (303, 25236), (310, 25257), (385, 25524),

Gene: Jalebi_32 Start: 30054, Stop: 31103, Start Num: 61

Candidate Starts for Jalebi_32:

(Start: 61 @30054 has 33 MA's), (98, 30168), (105, 30189), (133, 30264), (139, 30279), (169, 30342), (195, 30402), (233, 30504), (255, 30567), (295, 30738), (370, 30966),

Gene: Jamemuya19_30 Start: 27111, Stop: 28208, Start Num: 61

Candidate Starts for Jamemuya19_30:

(Start: 61 @27111 has 33 MA's), (98, 27225), (134, 27318), (151, 27351), (152, 27354), (154, 27357), (161, 27378), (167, 27390), (192, 27438), (219, 27501), (236, 27555), (264, 27651), (273, 27693), (320, 27927), (340, 27966), (368, 28053), (397, 28200),

Gene: Jarvi_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Jarvi_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Jayhawk_28 Start: 23323, Stop: 24336, Start Num: 57

Candidate Starts for Jayhawk_28:

(10, 22879), (21, 23026), (47, 23278), (Start: 57 @23323 has 102 MA's), (Start: 95 @23434 has 3 MA's), (140, 23548), (196, 23665), (212, 23707), (220, 23719), (255, 23773), (274, 23851), (294, 23947), (299, 23959), (307, 23989), (310, 23998), (343, 24112), (370, 24181),

Gene: Jebeks_22 Start: 21284, Stop: 22321, Start Num: 60

Candidate Starts for Jebeks_22:

(53, 21260), (Start: 57 @21281 has 102 MA's), (Start: 60 @21284 has 177 MA's), (69, 21308), (114, 21446), (131, 21488), (164, 21557), (192, 21617), (210, 21662), (226, 21707), (255, 21788), (270, 21845), (275, 21869), (299, 21974), (314, 22046), (333, 22091), (387, 22256),

Gene: Jeckyll_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Jeckyll_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Jifall16_43 Start: 35628, Stop: 36686, Start Num: 62

Candidate Starts for Jifall16_43:

(1, 34188), (2, 34485), (3, 34716), (6, 35085), (29, 35463), (31, 35478), (33, 35496), (Start: 62 @35628 has 27 MA's), (201, 35973), (221, 36024), (238, 36072),

Gene: Joy99_28 Start: 23285, Stop: 24298, Start Num: 57

Candidate Starts for Joy99_28:

(10, 22841), (47, 23240), (Start: 57 @23285 has 102 MA's), (140, 23510), (196, 23627), (212, 23669), (220, 23681), (255, 23735), (274, 23813), (294, 23909), (307, 23951), (310, 23960), (343, 24074), (370, 24143),

Gene: Juliette_30 Start: 24531, Stop: 25565, Start Num: 58

Candidate Starts for Juliette_30:

(40, 24465), (Start: 58 @24531 has 5 MA's), (112, 24687), (113, 24690), (131, 24735), (135, 24744), (171, 24819), (210, 24906), (226, 24951), (255, 25032), (270, 25089), (275, 25113), (299, 25218), (314, 25290), (342, 25350), (387, 25500),

Gene: Jumbo_25 Start: 36377, Stop: 37471, Start Num: 63

Candidate Starts for Jumbo_25:

(Start: 63 @36377 has 17 MA's), (Start: 95 @36485 has 3 MA's), (141, 36602), (185, 36689), (247, 36851), (270, 36944), (274, 36965), (290, 37052), (368, 37319),

Gene: Jung_22 Start: 21225, Stop: 22292, Start Num: 60

Candidate Starts for Jung_22:

(53, 21201), (Start: 57 @21222 has 102 MA's), (Start: 60 @21225 has 177 MA's), (69, 21249), (112, 21381), (114, 21387), (131, 21429), (162, 21495), (164, 21498), (192, 21558), (210, 21603), (226, 21648), (255, 21729), (270, 21786), (275, 21810), (281, 21852), (313, 21981), (318, 22002),

Gene: Juniormint_22 Start: 21325, Stop: 22380, Start Num: 60

Candidate Starts for Juniormint_22:

(53, 21301), (Start: 57 @21322 has 102 MA's), (Start: 60 @21325 has 177 MA's), (69, 21349), (114, 21487), (131, 21529), (164, 21598), (192, 21676), (210, 21721), (226, 21766), (255, 21847), (270, 21904), (275, 21928), (299, 22033), (314, 22105), (333, 22150), (387, 22315),

Gene: JustASigh_22 Start: 22794, Stop: 23885, Start Num: 35

Candidate Starts for JustASigh_22:

(25, 22689), (Start: 35 @22794 has 2 MA's), (111, 23058), (173, 23202), (177, 23211), (230, 23322), (294, 23547), (390, 23841), (393, 23862),

Gene: Kabluna_48 Start: 35054, Stop: 36109, Start Num: 62

Candidate Starts for Kabluna_48:

(44, 34991), (Start: 62 @35054 has 27 MA's), (136, 35267), (222, 35450), (299, 35738), (393, 36083),

Gene: Kari_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Kari_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Keshu_28 Start: 23942, Stop: 24964, Start Num: 60

Candidate Starts for Keshu_28:

(24, 23753), (34, 23852), (43, 23909), (Start: 60 @23942 has 177 MA's), (110, 24092), (134, 24149), (173, 24233), (187, 24263), (269, 24434), (275, 24464), (308, 24599), (328, 24692), (330, 24695), (341, 24716), (365, 24794), (380, 24863), (383, 24893),

Gene: Kevin1_22 Start: 19999, Stop: 21036, Start Num: 58

Candidate Starts for Kevin1_22:

(40, 19933), (Start: 58 @19999 has 5 MA's), (112, 20155), (114, 20161), (162, 20269), (171, 20287), (210, 20377), (226, 20422), (255, 20503), (275, 20584), (292, 20671), (299, 20689), (314, 20761), (333, 20806), (387, 20971),

Gene: KiSi_27 Start: 22512, Stop: 23480, Start Num: 59

Candidate Starts for KiSi_27:

(Start: 59 @22512 has 4 MA's), (114, 22674), (116, 22680), (124, 22701), (127, 22707), (149, 22749), (169, 22794), (187, 22836), (196, 22851), (255, 22959), (276, 23043), (361, 23319),

Gene: KidneyBean_44 Start: 35752, Stop: 36810, Start Num: 62

Candidate Starts for KidneyBean_44:

(1, 34312), (2, 34609), (3, 34840), (6, 35209), (29, 35587), (31, 35602), (33, 35620), (Start: 62 @35752 has 27 MA's), (201, 36097), (221, 36148), (238, 36196),

Gene: KilKor_22 Start: 21561, Stop: 22601, Start Num: 60

Candidate Starts for KilKor_22:

(Start: 60 @21561 has 177 MA's), (112, 21720), (114, 21726), (131, 21768), (162, 21834), (164, 21837), (192, 21897), (210, 21942), (226, 21987), (255, 22068), (270, 22125), (275, 22149), (299, 22254), (314, 22326), (333, 22371),

Gene: KleverKiS_31 Start: 26972, Stop: 28027, Start Num: 60

Candidate Starts for KleverKiS_31:

(Start: 60 @26972 has 177 MA's), (135, 27185), (155, 27221), (185, 27284), (218, 27356), (226, 27386), (234, 27407), (249, 27443), (258, 27479), (270, 27527), (274, 27548), (276, 27554), (279, 27584), (280, 27587), (291, 27635), (358, 27845), (375, 27899),

Gene: Kratio_26 Start: 23714, Stop: 24778, Start Num: 60

Candidate Starts for Kratio_26:

(Start: 60 @23714 has 177 MA's), (89, 23804), (99, 23834), (121, 23894), (145, 23942), (161, 23981), (169, 23999), (207, 24083), (226, 24131), (233, 24149), (258, 24224), (275, 24290), (292, 24380), (293, 24383), (294, 24386), (304, 24419), (324, 24518), (325, 24521), (359, 24605), (363, 24617), (390, 24734),

Gene: Kraw_29 Start: 24509, Stop: 25513, Start Num: 60

Candidate Starts for Kraw_29:

(Start: 60 @24509 has 177 MA's), (Start: 80 @24578 has 1 MA's), (117, 24677), (136, 24722), (140, 24728), (166, 24782), (171, 24791), (187, 24827), (205, 24872), (213, 24893), (219, 24899), (220, 24902), (274, 25034), (275, 25037), (303, 25160), (310, 25181), (385, 25448),

Gene: Krueger_28 Start: 22638, Stop: 23633, Start Num: 60

Candidate Starts for Krueger_28:

(34, 22548), (Start: 60 @22638 has 177 MA's), (93, 22737), (Start: 95 @22743 has 3 MA's), (159, 22893), (196, 22974), (205, 22998), (274, 23160), (275, 23163), (291, 23247), (305, 23292), (386, 23571), (391, 23592), (393, 23610),

Gene: Ksquared_22 Start: 21321, Stop: 22358, Start Num: 60

Candidate Starts for Ksquared_22:

(53, 21297), (Start: 57 @21318 has 102 MA's), (Start: 60 @21321 has 177 MA's), (69, 21345), (114, 21483), (131, 21525), (164, 21594), (192, 21654), (210, 21699), (226, 21744), (255, 21825), (270, 21882), (275, 21906), (299, 22011), (314, 22083), (333, 22128), (387, 22293),

Gene: Kurt_44 Start: 35989, Stop: 37047, Start Num: 62

Candidate Starts for Kurt_44:

(1, 34549), (2, 34846), (3, 35077), (6, 35446), (29, 35824), (31, 35839), (33, 35857), (Start: 62 @35989 has 27 MA's), (201, 36334), (221, 36385), (238, 36433),

Gene: Labelle_37 Start: 32043, Stop: 33083, Start Num: 65

Candidate Starts for Labelle_37:

(Start: 65 @32043 has 3 MA's), (88, 32121), (113, 32199), (212, 32412), (216, 32418), (246, 32496), (270, 32589), (276, 32616),

Gene: Lambo_33 Start: 29541, Stop: 30587, Start Num: 61

Candidate Starts for Lambo_33:

(Start: 61 @29541 has 33 MA's), (98, 29655), (105, 29676), (133, 29751), (139, 29766), (223, 29964), (250, 30030), (253, 30042), (270, 30111), (303, 30252),

Gene: Langerak_22 Start: 21280, Stop: 22320, Start Num: 57

Candidate Starts for Langerak_22:

(53, 21259), (Start: 57 @21280 has 102 MA's), (Start: 60 @21283 has 177 MA's), (69, 21307), (114, 21445), (131, 21487), (164, 21556), (192, 21616), (210, 21661), (226, 21706), (255, 21787), (270, 21844), (275, 21868), (299, 21973), (314, 22045), (333, 22090), (387, 22255),

Gene: Larva_28 Start: 23878, Stop: 24942, Start Num: 60

Candidate Starts for Larva_28:

(Start: 60 @23878 has 177 MA's), (89, 23968), (99, 23998), (118, 24052), (121, 24058), (145, 24106), (161, 24145), (169, 24163), (171, 24166), (207, 24247), (226, 24295), (233, 24313), (275, 24454), (292, 24544), (293, 24547), (294, 24550), (304, 24583), (308, 24595), (324, 24682), (325, 24685), (363, 24781), (390, 24898),

Gene: LastHope_28 Start: 22491, Stop: 23498, Start Num: 60

Candidate Starts for LastHope_28:

(Start: 60 @22491 has 177 MA's), (140, 22710), (153, 22731), (174, 22785), (196, 22827), (221, 22887), (255, 22935), (268, 22983), (274, 23013), (294, 23109), (299, 23121), (310, 23160), (368, 23331), (370, 23343),

Gene: LaterM_28 Start: 23256, Stop: 24269, Start Num: 57

Candidate Starts for LaterM_28:

(Start: 57 @23256 has 102 MA's), (Start: 95 @23367 has 3 MA's), (140, 23481), (196, 23598), (212, 23640), (220, 23652), (255, 23706), (274, 23784), (294, 23880), (299, 23892), (310, 23931), (326, 24012), (343, 24045), (370, 24114), (388, 24210),

Gene: LavAbarElk_31 Start: 27993, Stop: 29042, Start Num: 61

Candidate Starts for LavAbarElk_31:

(Start: 61 @27993 has 33 MA's), (98, 28107), (105, 28128), (133, 28203), (139, 28218), (169, 28281), (195, 28341), (233, 28443), (255, 28506), (295, 28677), (332, 28812), (370, 28905),

Gene: Lavahound_26 Start: 23365, Stop: 24360, Start Num: 57

Candidate Starts for Lavahound_26:

(51, 23329), (Start: 57 @23365 has 102 MA's), (88, 23455), (Start: 95 @23476 has 3 MA's), (136, 23584), (140, 23590), (153, 23611), (161, 23632), (261, 23839), (274, 23893), (275, 23896), (291, 23980), (292, 23983), (310, 24040), (345, 24148),

Gene: LeMond_27 Start: 22583, Stop: 23551, Start Num: 59

Candidate Starts for LeMond_27:

(Start: 59 @22583 has 4 MA's), (105, 22718), (114, 22745), (116, 22751), (124, 22772), (127, 22778), (149, 22820), (169, 22865), (187, 22907), (196, 22922), (255, 23030), (276, 23114), (361, 23390),

Gene: Lea83_28 Start: 23930, Stop: 24949, Start Num: 60

Candidate Starts for Lea83_28:

(13, 23549), (14, 23561), (17, 23597), (19, 23621), (24, 23741), (34, 23840), (43, 23897), (Start: 60 @23930 has 177 MA's), (73, 23963), (105, 24062), (107, 24068), (110, 24080), (134, 24137), (136, 24143), (166, 24203), (196, 24266), (199, 24275), (214, 24311), (223, 24332), (226, 24344), (258, 24383), (274, 24452), (295, 24551), (310, 24599), (316, 24635), (340, 24698), (352, 24740), (370, 24788), (379, 24830), (393, 24926),

Gene: Lebo14_29 Start: 24599, Stop: 25603, Start Num: 60

Candidate Starts for Lebo14_29:

(Start: 60 @24599 has 177 MA's), (117, 24767), (122, 24779), (136, 24812), (140, 24818), (166, 24872), (171, 24881), (205, 24962), (213, 24983), (219, 24989), (220, 24992), (274, 25124), (275, 25127), (303, 25250),

Gene: Leston_27 Start: 24063, Stop: 25130, Start Num: 60

Candidate Starts for Leston_27:

(Start: 60 @24063 has 177 MA's), (98, 24180), (118, 24237), (137, 24285), (145, 24291), (169, 24348), (171, 24351), (175, 24366), (192, 24393), (207, 24432), (209, 24435), (216, 24447), (218, 24450), (219, 24453), (223, 24468), (239, 24513), (243, 24519), (258, 24573), (270, 24621), (277, 24651), (287, 24696), (314, 24825), (327, 24879),

Gene: LilPharaoh_24 Start: 22900, Stop: 23907, Start Num: 60

Candidate Starts for LilPharaoh_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Lila22_32 Start: 29496, Stop: 30542, Start Num: 61

Candidate Starts for Lila22_32:

(Start: 61 @29496 has 33 MA's), (98, 29610), (105, 29631), (133, 29706), (139, 29721), (169, 29784), (233, 29946), (303, 30207),

Gene: LilhomieP_30 Start: 26992, Stop: 28047, Start Num: 60

Candidate Starts for LilhomieP_30:

(Start: 60 @26992 has 177 MA's), (135, 27205), (155, 27241), (185, 27304), (218, 27376), (226, 27406), (234, 27427), (249, 27463), (258, 27499), (270, 27547), (274, 27568), (276, 27574), (279, 27604), (280, 27607), (291, 27655), (352, 27844), (358, 27865), (375, 27919),

Gene: LindNT_28 Start: 23290, Stop: 24303, Start Num: 57

Candidate Starts for LindNT_28:

(47, 23245), (Start: 57 @23290 has 102 MA's), (Start: 95 @23401 has 3 MA's), (140, 23515), (196, 23632), (212, 23674), (220, 23686), (255, 23740), (274, 23818), (290, 23902), (294, 23914), (299, 23926), (310, 23965), (388, 24244),

Gene: Llorens_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Llorens_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Lollipop1437_50 Start: 36962, Stop: 38023, Start Num: 62

Candidate Starts for Lollipop1437_50:

(Start: 62 @36962 has 27 MA's), (123, 37148), (211, 37334), (212, 37337), (276, 37547),

Gene: LordVader_21 Start: 19492, Stop: 20529, Start Num: 60

Candidate Starts for LordVader_21:

(Start: 60 @19492 has 177 MA's), (69, 19516), (114, 19654), (131, 19696), (164, 19765), (192, 19825), (210, 19870), (226, 19915), (253, 19984), (270, 20053), (275, 20077), (299, 20182), (314, 20254), (333, 20299),

Gene: LuckyLeo_32 Start: 28919, Stop: 29908, Start Num: 78

Candidate Starts for LuckyLeo_32:

(Start: 61 @28862 has 33 MA's), (Start: 78 @28919 has 1 MA's), (109, 29009), (112, 29018), (114, 29024), (117, 29033), (139, 29087), (223, 29285), (250, 29351), (253, 29363), (270, 29432), (303, 29573), (332, 29681),

Gene: Lunahalos_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Lunahalos_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: MacKat_28 Start: 23333, Stop: 24346, Start Num: 57

Candidate Starts for MacKat_28:

(10, 22889), (47, 23288), (Start: 57 @23333 has 102 MA's), (Start: 95 @23444 has 3 MA's), (140, 23558), (196, 23675), (212, 23717), (220, 23729), (255, 23783), (274, 23861), (290, 23945), (294, 23957), (299, 23969), (307, 23999), (310, 24008), (343, 24122), (370, 24191),

Gene: MacnCheese_29 Start: 24319, Stop: 25308, Start Num: 60

Candidate Starts for MacnCheese_29:

(34, 24199), (43, 24256), (Start: 60 @24319 has 177 MA's), (73, 24352), (105, 24448), (107, 24454), (135, 24526), (205, 24676), (214, 24697), (224, 24724), (275, 24841), (290, 24919), (294, 24931), (295, 24934), (382, 25231),

Gene: Maco6_23 Start: 20985, Stop: 22013, Start Num: 56

Candidate Starts for Maco6_23:

(Start: 56 @20985 has 2 MA's), (88, 21075), (113, 21144), (116, 21153), (156, 21231), (179, 21294), (181, 21297), (246, 21441), (255, 21477), (270, 21528), (278, 21585), (349, 21825), (388, 21951),

Gene: Madruga_36 Start: 31712, Stop: 32752, Start Num: 65

Candidate Starts for Madruga_36:

(Start: 65 @31712 has 3 MA's), (88, 31790), (113, 31868), (212, 32081), (216, 32087), (246, 32165), (270, 32258), (276, 32285),

Gene: Majeke_22 Start: 21305, Stop: 22342, Start Num: 60

Candidate Starts for Majeke_22:

(53, 21281), (Start: 57 @21302 has 102 MA's), (Start: 60 @21305 has 177 MA's), (69, 21329), (114, 21467), (131, 21509), (164, 21578), (192, 21638), (210, 21683), (226, 21728), (255, 21809), (270, 21866), (275, 21890), (299, 21995), (314, 22067), (333, 22112), (387, 22277),

Gene: MakCheese_24 Start: 21714, Stop: 22658, Start Num: 96

Candidate Starts for MakCheese_24:

(Start: 63 @21606 has 17 MA's), (96, 21714), (152, 21855), (181, 21927), (195, 21960), (258, 22134), (268, 22173), (270, 22182), (299, 22305), (308, 22338), (322, 22410), (344, 22458), (346, 22461), (370, 22524),

Gene: MalagasyRose_28 Start: 22698, Stop: 23777, Start Num: 60

Candidate Starts for MalagasyRose_28:

(Start: 60 @22698 has 177 MA's), (68, 22719), (97, 22812), (110, 22854), (112, 22857), (118, 22872), (145, 22926), (155, 22947), (161, 22965), (192, 23028), (201, 23049), (219, 23088), (226, 23115), (233, 23133), (258, 23211), (262, 23229), (310, 23424), (318, 23484), (364, 23607),

Gene: Malithi_22 Start: 21221, Stop: 22261, Start Num: 57

Candidate Starts for Malithi_22:

(53, 21200), (Start: 57 @21221 has 102 MA's), (Start: 60 @21224 has 177 MA's), (69, 21248), (114, 21386), (131, 21428), (164, 21497), (192, 21557), (210, 21602), (226, 21647), (255, 21728), (270, 21785), (275, 21809), (299, 21914), (314, 21986), (333, 22031), (387, 22196),

Gene: Malthus_30 Start: 24509, Stop: 25513, Start Num: 60

Candidate Starts for Malthus_30:

(Start: 60 @24509 has 177 MA's), (Start: 80 @24578 has 1 MA's), (117, 24677), (136, 24722), (140, 24728), (166, 24782), (171, 24791), (187, 24827), (205, 24872), (213, 24893), (219, 24899), (220, 24902), (274, 25034), (275, 25037), (303, 25160), (310, 25181), (368, 25352), (385, 25448),

Gene: Mangethe_22 Start: 21305, Stop: 22342, Start Num: 60

Candidate Starts for Mangethe_22:

(53, 21281), (Start: 57 @21302 has 102 MA's), (Start: 60 @21305 has 177 MA's), (69, 21329), (114, 21467), (131, 21509), (164, 21578), (192, 21638), (210, 21683), (226, 21728), (255, 21809), (270, 21866), (275, 21890), (299, 21995), (314, 22067), (333, 22112), (387, 22277),

Gene: Manilisa_32 Start: 27398, Stop: 28474, Start Num: 62

Candidate Starts for Manilisa_32:

(Start: 62 @27398 has 27 MA's), (99, 27515), (109, 27545), (133, 27608), (166, 27683), (168, 27686), (197, 27755), (202, 27767), (241, 27860), (270, 27962), (273, 27977), (286, 28034),

Gene: Marcoliusprime_25 Start: 21282, Stop: 22277, Start Num: 60

Candidate Starts for Marcoliusprime_25:

(24, 21099), (34, 21198), (Start: 60 @21282 has 177 MA's), (84, 21363), (93, 21387), (114, 21447), (136, 21501), (140, 21507), (186, 21609), (188, 21612), (210, 21660), (212, 21666), (229, 21708), (255, 21732), (276, 21816), (292, 21900), (310, 21957), (393, 22254),

Gene: MarkPhew_28 Start: 22462, Stop: 23448, Start Num: 60

Candidate Starts for MarkPhew_28:

(Start: 60 @22462 has 177 MA's), (94, 22567), (116, 22630), (124, 22651), (127, 22657), (134, 22672), (149, 22699), (174, 22759), (187, 22786), (233, 22891), (275, 22990), (291, 23074), (303, 23113), (355, 23263), (374, 23317), (379, 23332),

Gene: Marshawn_29 Start: 23145, Stop: 24104, Start Num: 60

Candidate Starts for Marshawn_29:

(Start: 60 @23145 has 177 MA's), (Start: 72 @23175 has 1 MA's), (112, 23301), (117, 23316), (134, 23355), (149, 23382), (190, 23475), (196, 23484), (212, 23526), (255, 23592), (274, 23670), (275, 23673), (295, 23766), (322, 23874), (347, 23910),

Gene: McMater_28 Start: 22728, Stop: 23693, Start Num: 57

Candidate Starts for McMater_28:

(Start: 57 @22728 has 102 MA's), (Start: 62 @22734 has 27 MA's), (110, 22887), (117, 22905), (124, 22923), (140, 22956), (161, 22998), (187, 23058), (196, 23073), (274, 23259), (275, 23262), (289, 23334), (310, 23403), (322, 23451), (328, 23466), (347, 23499), (361, 23538), (389, 23637),

Gene: Mdavu_24 Start: 22888, Stop: 23895, Start Num: 60

Candidate Starts for Mdavu_24:

(46, 22837), (50, 22849), (Start: 60 @22888 has 177 MA's), (79, 22948), (105, 23020), (124, 23074), (134, 23095), (196, 23224), (213, 23269), (218, 23272), (254, 23329), (255, 23332), (267, 23377), (275, 23413), (294, 23509), (299, 23521), (327, 23641), (377, 23773),

Gene: MeaningOfLife_28 Start: 23292, Stop: 24305, Start Num: 57

Candidate Starts for MeaningOfLife_28:

(10, 22848), (47, 23247), (Start: 57 @23292 has 102 MA's), (Start: 95 @23403 has 3 MA's), (136, 23511), (140, 23517), (196, 23634), (212, 23676), (220, 23688), (255, 23742), (274, 23820), (290, 23904), (294, 23916), (299, 23928), (310, 23967), (343, 24081), (370, 24150),

Gene: Megiddo_22 Start: 21561, Stop: 22601, Start Num: 60

Candidate Starts for Megiddo_22:

(Start: 60 @21561 has 177 MA's), (112, 21720), (114, 21726), (131, 21768), (162, 21834), (164, 21837), (192, 21897), (210, 21942), (226, 21987), (255, 22068), (270, 22125), (275, 22149), (299, 22254), (314, 22326), (333, 22371),

Gene: Megsy_28 Start: 23293, Stop: 24306, Start Num: 57

Candidate Starts for Megsy_28:

(10, 22849), (47, 23248), (Start: 57 @23293 has 102 MA's), (Start: 95 @23404 has 3 MA's), (140, 23518), (196, 23635), (212, 23677), (220, 23689), (255, 23743), (274, 23821), (290, 23905), (294, 23917), (299, 23929), (310, 23968), (388, 24247),

Gene: MerCougar_46 Start: 36238, Stop: 37293, Start Num: 62

Candidate Starts for MerCougar_46:

(44, 36175), (Start: 62 @36238 has 27 MA's), (136, 36451), (212, 36610), (222, 36634), (299, 36922), (385, 37222), (393, 37267),

Gene: Meyran_29 Start: 27126, Stop: 28187, Start Num: 72

Candidate Starts for Meyran_29:

(Start: 60 @27099 has 177 MA's), (Start: 72 @27126 has 1 MA's), (133, 27309), (197, 27456), (241, 27561), (263, 27642), (270, 27669), (273, 27684), (286, 27747), (299, 27807), (372, 28044),

Gene: MichelleMyBell_22 Start: 20029, Stop: 21114, Start Num: 60

Candidate Starts for MichelleMyBell_22:

(40, 19963), (Start: 60 @20029 has 177 MA's), (114, 20191), (164, 20302), (192, 20362), (210, 20407), (255, 20533), (258, 20542), (270, 20590),

Gene: Milly_25 Start: 21282, Stop: 22277, Start Num: 60

Candidate Starts for Milly_25:

(24, 21099), (34, 21198), (Start: 60 @21282 has 177 MA's), (84, 21363), (93, 21387), (114, 21447), (136, 21501), (140, 21507), (186, 21609), (188, 21612), (210, 21660), (212, 21666), (229, 21708),

(255, 21732), (276, 21816), (292, 21900), (310, 21957), (393, 22254),

Gene: Mima20_31 Start: 29243, Stop: 30292, Start Num: 61

Candidate Starts for Mima20_31:

(Start: 61 @29243 has 33 MA's), (85, 29318), (98, 29357), (105, 29378), (133, 29453), (139, 29468), (169, 29531), (195, 29591), (233, 29693), (295, 29927), (332, 30062), (370, 30155),

Gene: Miryou_27 Start: 23918, Stop: 24985, Start Num: 60

Candidate Starts for Miryou_27:

(Start: 60 @23918 has 177 MA's), (98, 24035), (118, 24092), (137, 24140), (145, 24146), (169, 24203), (171, 24206), (175, 24221), (192, 24248), (207, 24287), (209, 24290), (216, 24302), (218, 24305), (219, 24308), (223, 24323), (239, 24368), (243, 24374), (258, 24428), (270, 24476), (277, 24506), (287, 24551), (314, 24680), (327, 24734),

Gene: MissDaisy_29 Start: 24351, Stop: 25355, Start Num: 60

Candidate Starts for MissDaisy_29:

(Start: 60 @24351 has 177 MA's), (117, 24519), (136, 24564), (140, 24570), (166, 24624), (205, 24714), (213, 24735), (220, 24744), (274, 24876), (275, 24879), (303, 25002), (310, 25023), (385, 25290),

Gene: Mitti_29 Start: 24509, Stop: 25513, Start Num: 60

Candidate Starts for Mitti_29:

(Start: 60 @24509 has 177 MA's), (117, 24677), (136, 24722), (140, 24728), (166, 24782), (205, 24872), (213, 24893), (220, 24902), (274, 25034), (275, 25037), (289, 25112), (310, 25181), (378, 25391),

Gene: MoiGyank_35 Start: 29924, Stop: 30973, Start Num: 61

Candidate Starts for MoiGyank_35:

(Start: 61 @29924 has 33 MA's), (85, 29999), (98, 30038), (105, 30059), (133, 30134), (139, 30149), (169, 30212), (195, 30272), (233, 30374), (255, 30437), (295, 30608), (370, 30836),

Gene: MrMagoo_35 Start: 27841, Stop: 28923, Start Num: 48

Candidate Starts for MrMagoo_35:

(45, 27835), (Start: 48 @27841 has 6 MA's), (70, 27916), (81, 27961), (83, 27967), (86, 27973), (91, 27991), (109, 28036), (114, 28051), (121, 28066), (130, 28090), (140, 28111), (165, 28165), (167, 28171), (178, 28201), (194, 28234), (249, 28345), (258, 28381), (391, 28879),

Gene: Muddy_25 Start: 21935, Stop: 22960, Start Num: 56

Candidate Starts for Muddy_25:

(Start: 56 @21935 has 2 MA's), (88, 22025), (156, 22181), (179, 22244), (181, 22247), (246, 22391), (255, 22427), (270, 22478), (278, 22535), (337, 22733), (349, 22772), (388, 22898),

Gene: Mufasa_25 Start: 21302, Stop: 22327, Start Num: 60

Candidate Starts for Mufasa_25:

(34, 21218), (Start: 60 @21302 has 177 MA's), (93, 21407), (114, 21467), (136, 21521), (140, 21527), (177, 21608), (180, 21614), (186, 21629), (188, 21632), (276, 21836), (392, 22295),

Gene: Mulch_27 Start: 23315, Stop: 24382, Start Num: 63

Candidate Starts for Mulch_27:

(Start: 63 @23315 has 17 MA's), (138, 23525), (216, 23693), (263, 23834), (267, 23849), (270, 23861), (275, 23885), (290, 23969), (301, 24005), (325, 24116),

Gene: Murucutumbu_28 Start: 23275, Stop: 24288, Start Num: 57

Candidate Starts for Murucutumbu_28:

(Start: 57 @23275 has 102 MA's), (Start: 95 @23386 has 3 MA's), (140, 23500), (196, 23617), (212, 23659), (255, 23725), (274, 23803), (275, 23806), (294, 23899), (299, 23911), (303, 23929), (310, 23950), (343, 24064), (370, 24133), (388, 24229),

Gene: Mynx_28 Start: 23339, Stop: 24352, Start Num: 57

Candidate Starts for Mynx_28:

(10, 22895), (47, 23294), (Start: 57 @23339 has 102 MA's), (140, 23564), (196, 23681), (212, 23723), (220, 23735), (255, 23789), (274, 23867), (294, 23963), (299, 23975), (307, 24005), (310, 24014), (343, 24128), (370, 24197),

Gene: Nadeem_27 Start: 23315, Stop: 24382, Start Num: 63

Candidate Starts for Nadeem_27:

(Start: 63 @23315 has 17 MA's), (138, 23525), (216, 23693), (263, 23834), (267, 23849), (270, 23861), (275, 23885), (290, 23969), (325, 24116),

Gene: NancyRae_27 Start: 23321, Stop: 24388, Start Num: 63

Candidate Starts for NancyRae_27:

(Start: 63 @23321 has 17 MA's), (138, 23531), (216, 23699), (263, 23840), (267, 23855), (270, 23867), (275, 23891), (290, 23975), (301, 24011), (325, 24122),

Gene: NatB6_44 Start: 35025, Stop: 36083, Start Num: 62

Candidate Starts for NatB6_44:

(1, 33585), (2, 33882), (3, 34113), (6, 34482), (29, 34860), (31, 34875), (33, 34893), (Start: 62 @35025 has 27 MA's), (201, 35370), (221, 35421), (238, 35469),

Gene: Nazo_22 Start: 21497, Stop: 22546, Start Num: 60

Candidate Starts for Nazo_22:

(Start: 60 @21497 has 177 MA's), (68, 21518), (114, 21659), (125, 21689), (135, 21710), (168, 21773), (187, 21812), (251, 21971), (279, 22103), (305, 22199), (388, 22484),

Gene: Necropolis_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Necropolis_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Neighly_28 Start: 23877, Stop: 24941, Start Num: 60

Candidate Starts for Neighly_28:

(Start: 60 @23877 has 177 MA's), (89, 23967), (99, 23997), (118, 24051), (121, 24057), (145, 24105), (161, 24144), (169, 24162), (171, 24165), (207, 24246), (226, 24294), (233, 24312), (275, 24453), (292, 24543), (293, 24546), (294, 24549), (304, 24582), (308, 24594), (324, 24681), (325, 24684), (363, 24780), (390, 24897),

Gene: Nibb_27 Start: 22603, Stop: 23589, Start Num: 60

Candidate Starts for Nibb_27:

(Start: 60 @22603 has 177 MA's), (94, 22708), (112, 22759), (116, 22771), (124, 22792), (127, 22798), (134, 22813), (149, 22840), (174, 22900), (187, 22927), (226, 23020), (233, 23032), (272, 23119), (275, 23131), (291, 23215), (303, 23254), (311, 23281), (325, 23350), (355, 23404),

Gene: Nikao_24 Start: 22900, Stop: 23907, Start Num: 60

Candidate Starts for Nikao_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Niklas_28 Start: 22731, Stop: 23696, Start Num: 57

Candidate Starts for Niklas_28:

(Start: 57 @22731 has 102 MA's), (Start: 62 @22737 has 27 MA's), (110, 22890), (117, 22908), (124, 22926), (140, 22959), (161, 23001), (187, 23061), (196, 23076), (274, 23262), (275, 23265), (289, 23337), (310, 23406), (322, 23454), (328, 23469), (347, 23502), (361, 23541), (389, 23640),

Gene: NorManre_34 Start: 29125, Stop: 30174, Start Num: 61

Candidate Starts for NorManre_34:

(Start: 61 @29125 has 33 MA's), (85, 29200), (98, 29239), (105, 29260), (133, 29335), (139, 29350), (169, 29413), (255, 29638), (295, 29809), (370, 30037), (380, 30082),

Gene: NosilaM_48 Start: 35951, Stop: 37006, Start Num: 62

Candidate Starts for NosilaM_48:

(Start: 62 @35951 has 27 MA's), (136, 36164), (222, 36347), (299, 36635), (393, 36980),

Gene: NovaSharks_32 Start: 27111, Stop: 28208, Start Num: 61

Candidate Starts for NovaSharks_32:

(Start: 61 @27111 has 33 MA's), (98, 27225), (134, 27318), (151, 27351), (152, 27354), (154, 27357), (161, 27378), (167, 27390), (192, 27438), (219, 27501), (236, 27555), (264, 27651), (273, 27693), (320, 27927), (340, 27966), (368, 28053), (397, 28200),

Gene: November_26 Start: 23628, Stop: 24632, Start Num: 57

Candidate Starts for November_26:

(16, 23256), (51, 23592), (Start: 57 @23628 has 102 MA's), (91, 23730), (134, 23841), (153, 23874), (196, 23970), (269, 24129), (292, 24243), (336, 24396), (370, 24489),

Gene: NovumRegina_44 Start: 35355, Stop: 36413, Start Num: 62

Candidate Starts for NovumRegina_44:

(1, 33915), (2, 34212), (3, 34443), (6, 34812), (29, 35190), (31, 35205), (33, 35223), (Start: 62 @35355 has 27 MA's), (201, 35700), (221, 35751), (238, 35799),

Gene: Nutello_24 Start: 22900, Stop: 23907, Start Num: 60

Candidate Starts for Nutello_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Nyceirae_31 Start: 26839, Stop: 27909, Start Num: 60

Candidate Starts for Nyceirae_31:

(Start: 60 @26839 has 177 MA's), (86, 26920), (Start: 95 @26944 has 3 MA's), (133, 27049), (159, 27106), (168, 27127), (189, 27175), (241, 27301), (255, 27352), (270, 27409), (273, 27424), (299, 27541),

Gene: OkiRoe_27 Start: 23934, Stop: 25001, Start Num: 60

Candidate Starts for OkiRoe_27:

(Start: 60 @23934 has 177 MA's), (98, 24051), (118, 24108), (137, 24156), (145, 24162), (171, 24222), (175, 24237), (192, 24264), (207, 24303), (209, 24306), (216, 24318), (218, 24321), (219, 24324), (223, 24339), (239, 24384), (243, 24390), (258, 24444), (270, 24492), (277, 24522), (287, 24567), (314, 24696), (327, 24750),

Gene: OmniCritical_29 Start: 24494, Stop: 25498, Start Num: 60

Candidate Starts for OmniCritical_29:

(Start: 60 @24494 has 177 MA's), (117, 24662), (136, 24707), (140, 24713), (166, 24767), (171, 24776), (205, 24857), (213, 24878), (219, 24884), (220, 24887), (274, 25019), (275, 25022), (303, 25145), (378, 25376),

Gene: Omnicron_28 Start: 22797, Stop: 23876, Start Num: 60

Candidate Starts for Omnicron_28:

(Start: 60 @22797 has 177 MA's), (71, 22824), (118, 22971), (121, 22977), (145, 23025), (161, 23064), (169, 23082), (175, 23100), (207, 23166), (223, 23202), (232, 23226), (233, 23232), (261, 23325), (283, 23427), (292, 23472), (308, 23517), (309, 23520), (312, 23538), (315, 23559), (323, 23601), (332, 23619), (364, 23715), (368, 23718), (395, 23859),

Gene: Oscar_27 Start: 22584, Stop: 23552, Start Num: 59

Candidate Starts for Oscar_27:

(Start: 59 @22584 has 4 MA's), (114, 22746), (116, 22752), (124, 22773), (127, 22779), (149, 22821), (169, 22866), (187, 22908), (196, 22923), (255, 23031), (276, 23115), (361, 23391),

Gene: OtterstedtS21_33 Start: 29200, Stop: 30249, Start Num: 61

Candidate Starts for OtterstedtS21_33:

(Start: 61 @29200 has 33 MA's), (98, 29314), (112, 29356), (133, 29410), (139, 29425), (169, 29488), (195, 29548), (233, 29650), (255, 29713), (295, 29884), (370, 30112),

Gene: Outis_46 Start: 35932, Stop: 36987, Start Num: 62

Candidate Starts for Outis_46:

(44, 35869), (Start: 62 @35932 has 27 MA's), (136, 36145), (212, 36304), (222, 36328), (299, 36616), (385, 36916), (393, 36961),

Gene: Padfoot_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Padfoot_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Padpat_28 Start: 23316, Stop: 24329, Start Num: 57

Candidate Starts for Padpat_28:

(10, 22872), (47, 23271), (Start: 57 @23316 has 102 MA's), (140, 23541), (196, 23658), (212, 23700), (220, 23712), (255, 23766), (274, 23844), (294, 23940), (299, 23952), (307, 23982), (310, 23991), (343, 24105), (370, 24174),

Gene: Panchino_21 Start: 20180, Stop: 21217, Start Num: 60

Candidate Starts for Panchino_21:

(Start: 60 @20180 has 177 MA's), (112, 20336), (114, 20342), (162, 20450), (171, 20468), (210, 20558), (226, 20603), (255, 20684), (275, 20765), (292, 20852), (299, 20870), (314, 20942), (333, 20987), (387, 21152),

Gene: Paola_27 Start: 23933, Stop: 25000, Start Num: 60

Candidate Starts for Paola_27:

(Start: 60 @23933 has 177 MA's), (98, 24050), (118, 24107), (137, 24155), (145, 24161), (169, 24218), (171, 24221), (175, 24236), (192, 24263), (207, 24302), (209, 24305), (216, 24317), (218, 24320), (219, 24323), (223, 24338), (239, 24383), (243, 24389), (258, 24443), (270, 24491), (277, 24521), (287, 24566), (314, 24695), (327, 24749),

Gene: Parada_27 Start: 23315, Stop: 24382, Start Num: 63

Candidate Starts for Parada_27:

(Start: 63 @23315 has 17 MA's), (138, 23525), (216, 23693), (263, 23834), (267, 23849), (270, 23861), (275, 23885), (290, 23969), (301, 24005), (325, 24116),

Gene: ParvusTarda_33 Start: 28670, Stop: 29716, Start Num: 61

Candidate Starts for ParvusTarda_33:

(Start: 61 @28670 has 33 MA's), (98, 28784), (105, 28805), (133, 28880), (139, 28895), (169, 28958), (233, 29120), (295, 29354),

Gene: Patience_38 Start: 32593, Stop: 33633, Start Num: 65

Candidate Starts for Patience_38:

(Start: 65 @32593 has 3 MA's), (88, 32671), (113, 32749), (212, 32962), (216, 32968), (246, 33046), (270, 33139), (276, 33166),

Gene: Patio_48 Start: 36198, Stop: 37259, Start Num: 62

Candidate Starts for Patio_48:

(Start: 62 @36198 has 27 MA's), (123, 36384), (211, 36570), (212, 36573), (276, 36783),

Gene: Patos_34 Start: 29125, Stop: 30174, Start Num: 61

Candidate Starts for Patos_34:

(Start: 61 @29125 has 33 MA's), (85, 29200), (98, 29239), (105, 29260), (133, 29335), (139, 29350), (169, 29413), (255, 29638), (295, 29809), (370, 30037), (380, 30082),

Gene: Patt_29 Start: 24327, Stop: 25331, Start Num: 60

Candidate Starts for Patt_29:

(Start: 60 @24327 has 177 MA's), (117, 24495), (136, 24540), (140, 24546), (166, 24600), (205, 24690), (213, 24711), (220, 24720), (274, 24852), (275, 24855), (308, 24993), (319, 25062),

Gene: Peanam_28 Start: 22728, Stop: 23693, Start Num: 57

Candidate Starts for Peanam_28:

(Start: 57 @22728 has 102 MA's), (Start: 62 @22734 has 27 MA's), (110, 22887), (117, 22905), (124, 22923), (140, 22956), (161, 22998), (187, 23058), (196, 23073), (220, 23127), (274, 23259), (275, 23262), (289, 23334), (310, 23403), (322, 23451), (328, 23466), (347, 23499), (361, 23538), (389, 23637),

Gene: PeanutPie_22 Start: 21330, Stop: 22343, Start Num: 69

Candidate Starts for PeanutPie_22:

(53, 21282), (Start: 57 @21303 has 102 MA's), (Start: 60 @21306 has 177 MA's), (69, 21330), (114, 21468), (131, 21510), (164, 21579), (192, 21639), (210, 21684), (226, 21729), (255, 21810), (270, 21867), (275, 21891), (299, 21996), (314, 22068), (333, 22113), (387, 22278),

Gene: Peel_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Peel_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: PegLeg_31 Start: 26991, Stop: 28046, Start Num: 60

Candidate Starts for PegLeg_31:

(Start: 60 @26991 has 177 MA's), (135, 27204), (155, 27240), (185, 27303), (218, 27375), (226, 27405), (234, 27426), (249, 27462), (258, 27498), (270, 27546), (274, 27567), (276, 27573), (279,

27603), (280, 27606), (291, 27654), (352, 27843), (358, 27864), (375, 27918),

Gene: Phalm_22 Start: 21561, Stop: 22601, Start Num: 60

Candidate Starts for Phalm_22:

(Start: 60 @21561 has 177 MA's), (112, 21720), (114, 21726), (131, 21768), (162, 21834), (164, 21837), (192, 21897), (210, 21942), (226, 21987), (255, 22068), (270, 22125), (275, 22149), (299, 22254), (314, 22326), (333, 22371),

Gene: Pharb_27 Start: 23529, Stop: 24596, Start Num: 55

Candidate Starts for Pharb_27:

(Start: 55 @23529 has 2 MA's), (73, 23565), (74, 23568), (Start: 95 @23634 has 3 MA's), (105, 23661), (122, 23709), (134, 23736), (140, 23748), (153, 23769), (180, 23835), (220, 23919), (238, 23976), (239, 23979), (274, 24111), (275, 24114), (278, 24147), (287, 24162), (309, 24255), (329, 24345),

Gene: Phayonce_22 Start: 21448, Stop: 22485, Start Num: 60

Candidate Starts for Phayonce_22:

(Start: 60 @21448 has 177 MA's), (114, 21610), (135, 21661), (155, 21697), (168, 21724), (192, 21772), (218, 21829), (229, 21865), (274, 22018), (279, 22054), (299, 22126), (342, 22261), (358, 22315), (381, 22393),

Gene: Phegasus_22 Start: 21305, Stop: 22342, Start Num: 60

Candidate Starts for Phegasus_22:

(53, 21281), (Start: 57 @21302 has 102 MA's), (Start: 60 @21305 has 177 MA's), (69, 21329), (114, 21467), (131, 21509), (164, 21578), (192, 21638), (210, 21683), (226, 21728), (255, 21809), (270, 21866), (275, 21890), (299, 21995), (314, 22067), (333, 22112), (387, 22277),

Gene: PhelpsODU_28 Start: 22720, Stop: 23781, Start Num: 60

Candidate Starts for PhelpsODU_28:

(34, 22630), (43, 22687), (Start: 60 @22720 has 177 MA's), (93, 22819), (134, 22927), (140, 22939), (153, 22960), (196, 23056), (239, 23170), (254, 23221), (278, 23338), (349, 23581), (354, 23599), (370, 23638),

Gene: Phineas_22 Start: 21670, Stop: 22707, Start Num: 60

Candidate Starts for Phineas_22:

(Start: 60 @21670 has 177 MA's), (114, 21835), (131, 21877), (162, 21943), (164, 21946), (171, 21961), (210, 22048), (226, 22093), (255, 22174), (270, 22231), (275, 22255), (299, 22360), (314, 22432), (333, 22477),

Gene: Phishy_30 Start: 26793, Stop: 27842, Start Num: 63

Candidate Starts for Phishy_30:

(Start: 63 @26793 has 17 MA's), (133, 27003), (169, 27081), (212, 27189), (263, 27339), (266, 27351), (270, 27366), (312, 27543), (335, 27618),

Gene: Phomeo_43 Start: 35624, Stop: 36682, Start Num: 62

Candidate Starts for Phomeo_43:

(1, 34184), (2, 34481), (3, 34712), (6, 35081), (29, 35459), (31, 35474), (33, 35492), (Start: 62 @35624 has 27 MA's), (201, 35969), (221, 36020), (238, 36068),

Gene: Phrank_28 Start: 22670, Stop: 23731, Start Num: 60

Candidate Starts for Phrank_28:

(Start: 60 @22670 has 177 MA's), (85, 22748), (87, 22751), (93, 22769), (134, 22877), (149, 22904), (153, 22910), (196, 23006), (201, 23018), (239, 23120), (254, 23171), (278, 23288), (349, 23531), (354, 23549), (370, 23588),

Gene: Phrann_21 Start: 20409, Stop: 21479, Start Num: 57

Candidate Starts for Phrann_21:

(Start: 57 @20409 has 102 MA's), (Start: 60 @20412 has 177 MA's), (114, 20574), (131, 20616), (164, 20685), (192, 20745), (210, 20790), (226, 20835), (253, 20904), (255, 20916), (270, 20973), (275, 20997), (313, 21168),

Gene: Piatt_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Piatt_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Pimento_27 Start: 22790, Stop: 23857, Start Num: 60

Candidate Starts for Pimento_27:

(33, 22655), (Start: 60 @22790 has 177 MA's), (147, 23009), (195, 23111), (210, 23153), (216, 23165), (263, 23309), (270, 23336), (275, 23360), (302, 23483), (319, 23573), (325, 23591),

Gene: Pisa1_27 Start: 23391, Stop: 24404, Start Num: 57

Candidate Starts for Pisa1_27:

(Start: 57 @23391 has 102 MA's), (Start: 95 @23502 has 3 MA's), (135, 23607), (140, 23616), (174, 23691), (196, 23733), (212, 23775), (220, 23787), (255, 23841), (274, 23919), (294, 24015), (299, 24027), (305, 24051), (370, 24249), (388, 24345),

Gene: Pisa4_27 Start: 23391, Stop: 24404, Start Num: 57

Candidate Starts for Pisa4_27:

(Start: 57 @23391 has 102 MA's), (Start: 95 @23502 has 3 MA's), (135, 23607), (140, 23616), (174, 23691), (196, 23733), (212, 23775), (220, 23787), (255, 23841), (274, 23919), (294, 24015), (299, 24027), (305, 24051), (370, 24249), (388, 24345),

Gene: Pixie_28 Start: 23724, Stop: 24788, Start Num: 60

Candidate Starts for Pixie_28:

(5, 23172), (7, 23238), (9, 23301), (11, 23313), (12, 23334), (15, 23376), (24, 23535), (34, 23634), (43, 23691), (Start: 60 @23724 has 177 MA's), (105, 23856), (107, 23862), (134, 23931), (136, 23937), (166, 23997), (174, 24018), (182, 24033), (219, 24111), (274, 24303), (278, 24339), (290, 24387), (303, 24429), (343, 24555),

Gene: Pleakley_53 Start: 35398, Stop: 36480, Start Num: 60

Candidate Starts for Pleakley_53:

(Start: 60 @35398 has 177 MA's), (98, 35515), (193, 35743), (225, 35827), (228, 35833), (243, 35872), (248, 35887), (259, 35929), (295, 36094), (351, 36274), (385, 36412),

Gene: Pokerus_27 Start: 23273, Stop: 24286, Start Num: 57

Candidate Starts for Pokerus_27:

(10, 22829), (47, 23228), (Start: 57 @23273 has 102 MA's), (Start: 95 @23384 has 3 MA's), (140, 23498), (196, 23615), (212, 23657), (220, 23669), (255, 23723), (274, 23801), (294, 23897), (299, 23909), (307, 23939), (310, 23948), (343, 24062), (370, 24131),

Gene: Polkaroo_22 Start: 21315, Stop: 22352, Start Num: 60

Candidate Starts for Polkaroo_22:

(53, 21291), (Start: 57 @21312 has 102 MA's), (Start: 60 @21315 has 177 MA's), (69, 21339), (114, 21477), (131, 21519), (164, 21588), (192, 21648), (210, 21693), (226, 21738), (255, 21819), (270, 21876), (275, 21900), (299, 22005), (314, 22077), (333, 22122), (387, 22287),

Gene: Prithvi_28 Start: 23290, Stop: 24303, Start Num: 57

Candidate Starts for Prithvi_28:

(47, 23245), (Start: 57 @23290 has 102 MA's), (Start: 95 @23401 has 3 MA's), (140, 23515), (196, 23632), (212, 23674), (220, 23686), (255, 23740), (274, 23818), (290, 23902), (294, 23914), (299, 23926), (310, 23965), (388, 24244),

Gene: Psycho_28 Start: 24008, Stop: 25072, Start Num: 60

Candidate Starts for Psycho_28:

(Start: 60 @24008 has 177 MA's), (89, 24098), (99, 24128), (118, 24182), (121, 24188), (145, 24236), (161, 24275), (169, 24293), (171, 24296), (207, 24377), (226, 24425), (233, 24443), (275, 24584), (292, 24674), (293, 24677), (294, 24680), (304, 24713), (308, 24725), (324, 24812), (325, 24815), (363, 24911), (390, 25028),

Gene: Purky_22 Start: 21124, Stop: 22170, Start Num: 60

Candidate Starts for Purky_22:

(Start: 60 @21124 has 177 MA's), (135, 21337), (192, 21448), (210, 21490), (211, 21493), (236, 21562), (274, 21694), (279, 21730), (309, 21838), (358, 21991), (361, 22000), (368, 22012),

Gene: QuincyRose_27 Start: 23336, Stop: 24349, Start Num: 57

Candidate Starts for QuincyRose_27:

(10, 22892), (47, 23291), (Start: 57 @23336 has 102 MA's), (Start: 95 @23447 has 3 MA's), (140, 23561), (196, 23678), (212, 23720), (220, 23732), (252, 23771), (255, 23786), (274, 23864), (290, 23948), (294, 23960), (299, 23972), (310, 24011), (343, 24125), (370, 24194),

Gene: Ramen_28 Start: 23322, Stop: 24335, Start Num: 57

Candidate Starts for Ramen_28:

(10, 22878), (47, 23277), (Start: 57 @23322 has 102 MA's), (Start: 95 @23433 has 3 MA's), (140, 23547), (196, 23664), (212, 23706), (220, 23718), (255, 23772), (274, 23850), (294, 23946), (307, 23988), (310, 23997), (343, 24111), (370, 24180),

Gene: Ranch_33 Start: 28024, Stop: 29073, Start Num: 61

Candidate Starts for Ranch_33:

(Start: 61 @28024 has 33 MA's), (98, 28138), (112, 28180), (133, 28234), (139, 28249), (169, 28312), (255, 28537), (295, 28708), (370, 28936), (380, 28981),

Gene: Rando14_28 Start: 22698, Stop: 23777, Start Num: 60

Candidate Starts for Rando14_28:

(Start: 60 @22698 has 177 MA's), (67, 22716), (99, 22818), (118, 22872), (119, 22875), (121, 22878), (145, 22926), (160, 22962), (161, 22965), (162, 22968), (175, 23001), (223, 23103), (226, 23115), (232, 23127), (233, 23133), (237, 23145), (245, 23166), (266, 23244), (276, 23286), (283, 23328), (292, 23373), (323, 23502),

Gene: Rapunzel97_28 Start: 23323, Stop: 24336, Start Num: 57

Candidate Starts for Rapunzel97_28:

(10, 22879), (21, 23026), (47, 23278), (Start: 57 @23323 has 102 MA's), (Start: 95 @23434 has 3 MA's), (140, 23548), (196, 23665), (212, 23707), (220, 23719), (255, 23773), (274, 23851), (294, 23947), (299, 23959), (307, 23989), (310, 23998), (343, 24112), (370, 24181),

Gene: RavenCo17_26 Start: 23835, Stop: 24911, Start Num: 60

Candidate Starts for RavenCo17_26:

(33, 23700), (Start: 60 @23835 has 177 MA's), (106, 23973), (133, 24045), (148, 24075), (210, 24225), (216, 24237), (232, 24279), (235, 24291), (255, 24348), (270, 24399), (286, 24471), (308, 24564),

(360, 24726), (390, 24867),

Gene: Raymond7_21 Start: 20415, Stop: 21500, Start Num: 60

Candidate Starts for Raymond7_21:

(Start: 60 @20415 has 177 MA's), (114, 20577), (164, 20688), (168, 20697), (171, 20703), (192, 20748), (210, 20793), (255, 20919), (258, 20928), (270, 20976),

Gene: RazorC_31 Start: 27503, Stop: 28600, Start Num: 61

Candidate Starts for RazorC_31:

(Start: 61 @27503 has 33 MA's), (98, 27617), (134, 27710), (151, 27743), (152, 27746), (154, 27749), (161, 27770), (167, 27782), (192, 27830), (219, 27893), (236, 27947), (264, 28043), (273, 28085), (320, 28319), (340, 28358), (368, 28445), (397, 28592),

Gene: Rebel_21 Start: 19868, Stop: 20905, Start Num: 60

Candidate Starts for Rebel_21:

(23, 19631), (28, 19673), (30, 19703), (33, 19733), (39, 19793), (54, 19847), (Start: 60 @19868 has 177 MA's), (114, 20030), (131, 20072), (164, 20141), (192, 20201), (210, 20246), (226, 20291), (253, 20360), (270, 20429), (275, 20453), (299, 20558), (314, 20630), (333, 20675),

Gene: RedRaider_52 Start: 38220, Stop: 39278, Start Num: 62

Candidate Starts for RedRaider_52:

(Start: 62 @38220 has 27 MA's), (119, 38394), (144, 38448), (220, 38610), (238, 38664), (299, 38907), (385, 39207),

Gene: Reindeer_30 Start: 26952, Stop: 28001, Start Num: 60

Candidate Starts for Reindeer_30:

(Start: 60 @26952 has 177 MA's), (75, 26988), (135, 27165), (168, 27228), (169, 27231), (190, 27270), (196, 27285), (219, 27336), (234, 27384), (258, 27453), (270, 27501), (274, 27522), (276, 27528), (279, 27558), (299, 27630), (342, 27765), (358, 27819), (373, 27870), (376, 27876), (381, 27909),

Gene: Rem711_30 Start: 25189, Stop: 26352, Start Num: 35

Candidate Starts for Rem711_30:

(Start: 35 @25189 has 2 MA's), (110, 25450), (135, 25510), (157, 25555), (165, 25573), (178, 25609), (230, 25717), (242, 25732), (259, 25789), (292, 25951), (334, 26101),

Gene: Reptar3000_29 Start: 24320, Stop: 25324, Start Num: 60

Candidate Starts for Reptar3000_29:

(Start: 60 @24320 has 177 MA's), (117, 24488), (136, 24533), (140, 24539), (166, 24593), (171, 24602), (205, 24683), (213, 24704), (220, 24713), (274, 24845), (275, 24848), (308, 24986), (319, 25055), (385, 25259),

Gene: Rey_35 Start: 28073, Stop: 29155, Start Num: 48

Candidate Starts for Rey_35:

(45, 28067), (Start: 48 @28073 has 6 MA's), (70, 28148), (81, 28193), (86, 28205), (91, 28223), (Start: 95 @28232 has 3 MA's), (114, 28283), (121, 28298), (130, 28322), (140, 28343), (167, 28403), (260, 28622), (372, 29024),

Gene: Richo_28 Start: 22728, Stop: 23693, Start Num: 57

Candidate Starts for Richo_28:

(Start: 57 @22728 has 102 MA's), (Start: 62 @22734 has 27 MA's), (110, 22887), (117, 22905), (124, 22923), (140, 22956), (161, 22998), (187, 23058), (196, 23073), (274, 23259), (275, 23262), (289, 23334), (310, 23403), (322, 23451), (328, 23466), (347, 23499), (361, 23538), (389, 23637),

Gene: Rosmarinus_28 Start: 23344, Stop: 24357, Start Num: 57

Candidate Starts for Rosmarinus_28:

(10, 22900), (47, 23299), (Start: 57 @23344 has 102 MA's), (140, 23569), (196, 23686), (212, 23728), (220, 23740), (255, 23794), (274, 23872), (294, 23968), (307, 24010), (310, 24019), (343, 24133), (370, 24202),

Gene: Rota_32 Start: 29482, Stop: 30456, Start Num: 85

Candidate Starts for Rota_32:

(Start: 61 @29407 has 33 MA's), (85, 29482), (98, 29521), (112, 29563), (133, 29617), (139, 29632), (169, 29695), (255, 29920), (295, 30091), (370, 30319),

Gene: Rubeelu_22 Start: 19998, Stop: 21038, Start Num: 58

Candidate Starts for Rubeelu_22:

(40, 19932), (Start: 58 @19998 has 5 MA's), (112, 20157), (114, 20163), (162, 20271), (164, 20274), (171, 20289), (210, 20379), (226, 20424), (255, 20505), (270, 20562), (275, 20586), (292, 20673), (299, 20691), (314, 20763), (333, 20808), (387, 20973),

Gene: Rukungu_33 Start: 29795, Stop: 30766, Start Num: 85

Candidate Starts for Rukungu_33:

(Start: 61 @29720 has 33 MA's), (85, 29795), (98, 29834), (105, 29855), (133, 29930), (139, 29945), (169, 30008), (195, 30068), (255, 30233), (295, 30404),

Gene: Rumi_32 Start: 27114, Stop: 28211, Start Num: 61

Candidate Starts for Rumi_32:

(Start: 61 @27114 has 33 MA's), (98, 27228), (134, 27321), (151, 27354), (152, 27357), (154, 27360), (161, 27381), (167, 27393), (192, 27441), (219, 27504), (236, 27558), (264, 27654), (273, 27696), (300, 27822), (320, 27930), (340, 27969), (368, 28056), (397, 28203),

Gene: Ruthiejr_29 Start: 24262, Stop: 25296, Start Num: 58

Candidate Starts for Ruthiejr_29:

(40, 24196), (Start: 58 @24262 has 5 MA's), (112, 24418), (113, 24421), (131, 24466), (135, 24475), (171, 24550), (210, 24637), (226, 24682), (255, 24763), (270, 24820), (275, 24844), (299, 24949), (314, 25021), (342, 25081), (387, 25231),

Gene: Sadboi_34 Start: 30140, Stop: 30934, Start Num: 158

Candidate Starts for Sadboi_34:

(122, 30062), (126, 30074), (128, 30077), (Start: 158 @30140 has 1 MA's), (169, 30167), (195, 30227), (233, 30329), (255, 30392), (295, 30563), (370, 30797),

Gene: SamScheppers_27 Start: 24552, Stop: 25625, Start Num: 57

Candidate Starts for SamScheppers_27:

(Start: 57 @24552 has 102 MA's), (Start: 60 @24555 has 177 MA's), (150, 24795), (164, 24831), (168, 24840), (171, 24846), (192, 24891), (210, 24936), (219, 24954), (226, 24981), (255, 25062), (270, 25119), (275, 25143),

Gene: Sampudon_33 Start: 30054, Stop: 31103, Start Num: 61

Candidate Starts for Sampudon_33:

(Start: 61 @30054 has 33 MA's), (98, 30168), (105, 30189), (133, 30264), (139, 30279), (169, 30342), (195, 30402), (233, 30504), (255, 30567), (295, 30738), (370, 30966),

Gene: SamuelLPlaqson_28 Start: 23284, Stop: 24297, Start Num: 57

Candidate Starts for SamuelLPlaqson_28:

(47, 23239), (Start: 57 @23284 has 102 MA's), (Start: 95 @23395 has 3 MA's), (140, 23509), (196, 23626), (212, 23668), (220, 23680), (255, 23734), (274, 23812), (294, 23908), (299, 23920), (310, 23959), (316, 23995), (370, 24142), (388, 24238),

Gene: Sbash_21 Start: 21030, Stop: 22079, Start Num: 60

Candidate Starts for Sbash_21:

(Start: 60 @21030 has 177 MA's), (114, 21192), (135, 21243), (168, 21306), (218, 21411), (274, 21600), (279, 21636), (299, 21708), (342, 21843), (358, 21897), (381, 21987),

Gene: Scarlett_27 Start: 22586, Stop: 23545, Start Num: 59

Candidate Starts for Scarlett_27:

(Start: 59 @22586 has 4 MA's), (114, 22748), (116, 22754), (124, 22775), (127, 22781), (149, 22823), (169, 22868), (187, 22910), (196, 22925), (255, 23033), (276, 23117), (361, 23393),

Gene: Scitech_21 Start: 20194, Stop: 21228, Start Num: 60

Candidate Starts for Scitech_21:

(Start: 60 @20194 has 177 MA's), (112, 20350), (114, 20356), (162, 20464), (164, 20467), (171, 20482), (210, 20569), (226, 20614), (255, 20695), (270, 20752), (275, 20776), (299, 20881), (314, 20953), (333, 20998),

Gene: Scuba_53 Start: 35472, Stop: 36554, Start Num: 60

Candidate Starts for Scuba_53:

(Start: 60 @35472 has 177 MA's), (98, 35589), (193, 35817), (225, 35901), (228, 35907), (248, 35961), (385, 36486),

Gene: SgtBeansprout_24 Start: 22900, Stop: 23907, Start Num: 60

Candidate Starts for SgtBeansprout_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Shadow1_27 Start: 22543, Stop: 23604, Start Num: 60

Candidate Starts for Shadow1_27:

(34, 22453), (Start: 60 @22543 has 177 MA's), (87, 22624), (93, 22642), (134, 22750), (140, 22762), (153, 22783), (196, 22879), (239, 22993), (254, 23044), (278, 23161), (287, 23176), (299, 23233), (310, 23272), (370, 23461),

Gene: Shaobing_28 Start: 22728, Stop: 23693, Start Num: 57

Candidate Starts for Shaobing_28:

(Start: 57 @22728 has 102 MA's), (Start: 62 @22734 has 27 MA's), (110, 22887), (117, 22905), (124, 22923), (140, 22956), (161, 22998), (187, 23058), (196, 23073), (274, 23259), (275, 23262), (289, 23334), (310, 23403), (322, 23451), (328, 23466), (347, 23499), (361, 23538), (389, 23637),

Gene: ShedlockHolmes_28 Start: 23930, Stop: 24949, Start Num: 60

Candidate Starts for ShedlockHolmes_28:

(13, 23549), (14, 23561), (17, 23597), (19, 23621), (24, 23741), (34, 23840), (43, 23897), (Start: 60 @23930 has 177 MA's), (73, 23963), (105, 24062), (107, 24068), (110, 24080), (134, 24137), (136, 24143), (166, 24203), (196, 24266), (199, 24275), (214, 24311), (223, 24332), (226, 24344), (258, 24383), (274, 24452), (295, 24551), (310, 24599), (316, 24635), (340, 24698), (352, 24740), (370, 24788), (379, 24830), (393, 24926),

Gene: ShiaSurprise_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for ShiaSurprise_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (Start: 95 @23467 has 3 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (299, 23992), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Shweta_21 Start: 20201, Stop: 21238, Start Num: 60

Candidate Starts for Shweta_21:

(Start: 60 @20201 has 177 MA's), (112, 20357), (114, 20363), (131, 20405), (162, 20471), (164, 20474), (192, 20534), (210, 20579), (226, 20624), (255, 20705), (270, 20762), (275, 20786), (299, 20891), (314, 20963), (333, 21008),

Gene: SirPhilip_27 Start: 22229, Stop: 23257, Start Num: 60

Candidate Starts for SirPhilip_27:

(Start: 60 @22229 has 177 MA's), (117, 22400), (124, 22418), (149, 22466), (174, 22526), (196, 22568), (204, 22586), (212, 22610), (252, 22661), (258, 22685), (271, 22742), (275, 22757), (289, 22829), (310, 22898),

Gene: Skinny_32 Start: 27432, Stop: 28493, Start Num: 60

Candidate Starts for Skinny_32:

(Start: 60 @27432 has 177 MA's), (75, 27468), (86, 27510), (118, 27600), (125, 27621), (137, 27648), (168, 27711), (208, 27801), (215, 27813), (220, 27822), (235, 27867), (258, 27933), (275, 28005), (292, 28095), (299, 28113), (323, 28230), (328, 28242), (363, 28332),

Gene: SkinnyPete_21 Start: 20204, Stop: 21241, Start Num: 60

Candidate Starts for SkinnyPete_21:

(Start: 60 @20204 has 177 MA's), (112, 20360), (114, 20366), (162, 20474), (171, 20492), (210, 20582), (226, 20627), (255, 20708), (275, 20789), (292, 20876), (299, 20894), (314, 20966), (333, 21011), (387, 21176),

Gene: Skysand_47 Start: 36418, Stop: 37479, Start Num: 62

Candidate Starts for Skysand_47:

(Start: 62 @36418 has 27 MA's), (123, 36604), (211, 36790), (212, 36793), (276, 37003),

Gene: Slarp_29 Start: 24596, Stop: 25600, Start Num: 60

Candidate Starts for Slarp_29:

(Start: 60 @24596 has 177 MA's), (117, 24764), (136, 24809), (140, 24815), (166, 24869), (171, 24878), (205, 24959), (213, 24980), (219, 24986), (220, 24989), (274, 25121), (275, 25124), (303, 25247),

Gene: SlimJimmy_30 Start: 26975, Stop: 28030, Start Num: 60

Candidate Starts for SlimJimmy_30:

(Start: 60 @26975 has 177 MA's), (135, 27188), (155, 27224), (185, 27287), (218, 27359), (226, 27389), (234, 27410), (249, 27446), (258, 27482), (270, 27530), (274, 27551), (276, 27557), (279, 27587), (280, 27590), (291, 27638), (358, 27848), (375, 27902),

Gene: Slimphazie_28 Start: 23323, Stop: 24336, Start Num: 57

Candidate Starts for Slimphazie_28:

(10, 22879), (21, 23026), (47, 23278), (Start: 57 @23323 has 102 MA's), (Start: 95 @23434 has 3 MA's), (140, 23548), (196, 23665), (212, 23707), (220, 23719), (255, 23773), (274, 23851), (294, 23947), (299, 23959), (307, 23989), (310, 23998), (343, 24112), (370, 24181),

Gene: SoSeph_27 Start: 24081, Stop: 25148, Start Num: 60

Candidate Starts for SoSeph_27:

(Start: 60 @24081 has 177 MA's), (98, 24198), (118, 24255), (137, 24303), (145, 24309), (169, 24366), (171, 24369), (175, 24384), (192, 24411), (207, 24450), (209, 24453), (216, 24465), (218, 24468), (219, 24471), (223, 24486), (239, 24531), (243, 24537), (258, 24591), (270, 24639), (277, 24669), (287, 24714), (314, 24843), (327, 24897),

Gene: Sonah_22 Start: 21289, Stop: 22326, Start Num: 60

Candidate Starts for Sonah_22:

(53, 21265), (Start: 57 @21286 has 102 MA's), (Start: 60 @21289 has 177 MA's), (69, 21313), (114, 21451), (131, 21493), (164, 21562), (192, 21622), (210, 21667), (226, 21712), (255, 21793), (270, 21850), (275, 21874), (299, 21979), (314, 22051), (333, 22096), (387, 22261),

Gene: Sparky_21 Start: 21885, Stop: 22931, Start Num: 60

Candidate Starts for Sparky_21:

(Start: 60 @21885 has 177 MA's), (135, 22098), (137, 22104), (192, 22209), (210, 22251), (211, 22254), (236, 22323), (274, 22455), (279, 22491), (309, 22599), (358, 22752), (361, 22761), (368, 22773),

Gene: Spock_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Spock_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Sprinklemunch_22 Start: 21828, Stop: 22874, Start Num: 63

Candidate Starts for Sprinklemunch_22:

(Start: 63 @21828 has 17 MA's), (96, 21933), (133, 22038), (201, 22194), (207, 22212), (208, 22215), (231, 22269), (270, 22398), (308, 22554), (322, 22626), (344, 22674), (346, 22677), (357, 22710),

Gene: StarStruck_46 Start: 35932, Stop: 36987, Start Num: 62

Candidate Starts for StarStruck_46:

(44, 35869), (Start: 62 @35932 has 27 MA's), (136, 36145), (212, 36304), (222, 36328), (299, 36616), (385, 36916), (393, 36961),

Gene: StevieRay_22 Start: 21290, Stop: 22327, Start Num: 60

Candidate Starts for StevieRay_22:

(53, 21266), (Start: 57 @21287 has 102 MA's), (Start: 60 @21290 has 177 MA's), (69, 21314), (114, 21452), (131, 21494), (164, 21563), (192, 21623), (210, 21668), (226, 21713), (255, 21794), (270, 21851), (275, 21875), (299, 21980), (314, 22052), (333, 22097), (387, 22262),

Gene: Stinson_29 Start: 23565, Stop: 24578, Start Num: 57

Candidate Starts for Stinson_29:

(Start: 57 @23565 has 102 MA's), (Start: 95 @23676 has 3 MA's), (140, 23790), (196, 23907), (212, 23949), (255, 24015), (258, 24024), (274, 24093), (294, 24189), (299, 24201), (343, 24354), (370, 24423), (388, 24519),

Gene: Stormer_32 Start: 27117, Stop: 28214, Start Num: 61

Candidate Starts for Stormer_32:

(Start: 61 @27117 has 33 MA's), (98, 27231), (134, 27324), (151, 27357), (152, 27360), (154, 27363), (160, 27381), (161, 27384), (192, 27444), (212, 27495), (219, 27507), (222, 27519), (236, 27561), (264, 27657), (273, 27699), (320, 27933), (340, 27972), (368, 28059), (397, 28206),

Gene: StressBall_22 Start: 21561, Stop: 22601, Start Num: 60

Candidate Starts for StressBall_22:

(Start: 60 @21561 has 177 MA's), (112, 21720), (114, 21726), (131, 21768), (162, 21834), (164, 21837), (192, 21897), (210, 21942), (226, 21987), (255, 22068), (270, 22125), (275, 22149), (299, 22254), (314, 22326), (333, 22371),

Gene: Strobilo_25 Start: 21282, Stop: 22277, Start Num: 60

Candidate Starts for Strobilo_25:

(34, 21198), (Start: 60 @21282 has 177 MA's), (84, 21363), (93, 21387), (114, 21447), (136, 21501), (140, 21507), (186, 21609), (188, 21612), (210, 21660), (212, 21666), (254, 21729), (255, 21732), (266, 21774), (276, 21816), (292, 21900), (310, 21957), (393, 22254),

Gene: Sulley_28 Start: 23289, Stop: 24302, Start Num: 57

Candidate Starts for Sulley_28:

(Start: 57 @23289 has 102 MA's), (Start: 95 @23400 has 3 MA's), (140, 23514), (196, 23631), (220, 23685), (255, 23739), (274, 23817), (294, 23913), (299, 23925), (307, 23955), (310, 23964), (343, 24078), (370, 24147),

Gene: Sunflower1121_27 Start: 22555, Stop: 23616, Start Num: 60

Candidate Starts for Sunflower1121_27:

(34, 22465), (Start: 60 @22555 has 177 MA's), (87, 22636), (93, 22654), (134, 22762), (140, 22774), (153, 22795), (196, 22891), (239, 23005), (254, 23056), (278, 23173), (299, 23245), (310, 23284), (347, 23404), (370, 23473),

Gene: SuperSonics_37 Start: 31769, Stop: 32809, Start Num: 65

Candidate Starts for SuperSonics_37:

(Start: 65 @31769 has 3 MA's), (88, 31847), (113, 31925), (212, 32138), (216, 32144), (246, 32222), (270, 32315), (276, 32342),

Gene: SuperSulley_46 Start: 36118, Stop: 37173, Start Num: 62

Candidate Starts for SuperSulley_46:

(Start: 62 @36118 has 27 MA's), (136, 36331), (222, 36514), (299, 36802), (393, 37147),

Gene: Syra333_28 Start: 22645, Stop: 23640, Start Num: 60

Candidate Starts for Syra333_28:

(34, 22555), (Start: 60 @22645 has 177 MA's), (93, 22744), (Start: 95 @22750 has 3 MA's), (159, 22900), (196, 22981), (274, 23167), (275, 23170), (291, 23254), (294, 23263), (305, 23299), (353, 23449), (391, 23599), (393, 23617),

Gene: TBond007_28 Start: 23723, Stop: 24787, Start Num: 60

Candidate Starts for TBond007_28:

(5, 23171), (7, 23237), (9, 23300), (12, 23333), (15, 23375), (24, 23534), (34, 23633), (43, 23690), (Start: 60 @23723 has 177 MA's), (105, 23855), (107, 23861), (134, 23930), (136, 23936), (166, 23996), (174, 24017), (182, 24032), (219, 24110), (274, 24302), (278, 24338), (290, 24386), (303, 24428), (343, 24554),

Gene: TClif_28 Start: 22714, Stop: 23739, Start Num: 60

Candidate Starts for TClif_28:

(Start: 60 @22714 has 177 MA's), (91, 22813), (93, 22816), (114, 22876), (132, 22921), (153, 22957), (188, 23041), (210, 23089), (257, 23173), (263, 23197), (275, 23248), (290, 23329), (371, 23581), (379, 23620), (393, 23716),

Gene: TM4_25 Start: 21422, Stop: 22426, Start Num: 60

Candidate Starts for TM4_25:

(Start: 60 @21422 has 177 MA's), (93, 21527), (114, 21587), (117, 21596), (136, 21641), (140, 21647), (166, 21701), (190, 21755), (219, 21815), (229, 21848), (255, 21872), (275, 21953), (276, 21956), (292, 22040), (303, 22076), (393, 22403),

Gene: Tachez_28 Start: 23285, Stop: 24298, Start Num: 57

Candidate Starts for Tachez_28:

(10, 22841), (21, 22988), (47, 23240), (Start: 57 @23285 has 102 MA's), (Start: 95 @23396 has 3 MA's), (140, 23510), (196, 23627), (212, 23669), (220, 23681), (255, 23735), (274, 23813), (294, 23909), (299, 23921), (307, 23951), (310, 23960), (343, 24074), (370, 24143),

Gene: TaiwanKao_29 Start: 23407, Stop: 24309, Start Num: 95

Candidate Starts for TaiwanKao_29:

(47, 23251), (Start: 57 @23296 has 102 MA's), (Start: 95 @23407 has 3 MA's), (140, 23521), (196, 23638), (212, 23680), (220, 23692), (255, 23746), (274, 23824), (290, 23908), (294, 23920), (299, 23932), (310, 23971), (331, 24061), (388, 24250),

Gene: Taquito_27 Start: 24633, Stop: 25676, Start Num: 55

Candidate Starts for Taquito_27:

(Start: 55 @24633 has 2 MA's), (Start: 60 @24636 has 177 MA's), (150, 24876), (164, 24912), (168, 24921), (171, 24927), (192, 24972), (210, 25017), (219, 25035), (226, 25062), (255, 25143), (270, 25200), (275, 25224), (299, 25329), (314, 25401), (333, 25446),

Gene: Techage_22 Start: 21290, Stop: 22327, Start Num: 60

Candidate Starts for Techage_22:

(53, 21266), (Start: 57 @21287 has 102 MA's), (Start: 60 @21290 has 177 MA's), (69, 21314), (114, 21452), (131, 21494), (164, 21563), (192, 21623), (210, 21668), (226, 21713), (255, 21794), (270, 21851), (275, 21875), (299, 21980), (314, 22052), (333, 22097), (387, 22262),

Gene: Teejan_24 Start: 22861, Stop: 23907, Start Num: 50

Candidate Starts for Teejan_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Thespis_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Thespis_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: ThulaThula_22 Start: 21454, Stop: 22491, Start Num: 60

Candidate Starts for ThulaThula_22:

(Start: 60 @21454 has 177 MA's), (114, 21616), (135, 21667), (155, 21703), (168, 21730), (192, 21778), (218, 21835), (229, 21871), (274, 22024), (279, 22060), (299, 22132), (342, 22267), (358, 22321), (381, 22399),

Gene: Thyatira_27 Start: 23933, Stop: 25000, Start Num: 60

Candidate Starts for Thyatira_27:

(Start: 60 @23933 has 177 MA's), (98, 24050), (118, 24107), (137, 24155), (145, 24161), (169, 24218), (171, 24221), (175, 24236), (192, 24263), (207, 24302), (209, 24305), (216, 24317), (218, 24320), (219, 24323), (223, 24338), (239, 24383), (243, 24389), (258, 24443), (270, 24491), (277, 24521), (287, 24566), (314, 24695), (327, 24749), (348, 24794),

Gene: Tierra_28 Start: 23391, Stop: 24452, Start Num: 60

Candidate Starts for Tierra_28:

(Start: 60 @23391 has 177 MA's), (85, 23469), (87, 23472), (93, 23490), (108, 23532), (134, 23598), (153, 23631), (196, 23727), (201, 23739), (239, 23841), (254, 23892), (278, 24009), (349, 24252), (354, 24270), (370, 24309),

Gene: Tigress9_29 Start: 22638, Stop: 23633, Start Num: 60

Candidate Starts for Tigress9_29:

(34, 22548), (Start: 60 @22638 has 177 MA's), (93, 22737), (Start: 95 @22743 has 3 MA's), (159, 22893), (196, 22974), (205, 22998), (274, 23160), (275, 23163), (291, 23247), (305, 23292), (386, 23571), (391, 23592), (393, 23610),

Gene: Tillicus_32 Start: 28456, Stop: 29502, Start Num: 61

Candidate Starts for Tillicus_32:

(Start: 61 @28456 has 33 MA's), (Start: 78 @28513 has 1 MA's), (109, 28603), (112, 28612), (114, 28618), (117, 28627), (139, 28681), (231, 28897), (233, 28906), (250, 28945), (253, 28957), (270, 29026), (295, 29140), (303, 29167), (332, 29275),

Gene: TingHuaYa_28 Start: 22494, Stop: 23501, Start Num: 60

Candidate Starts for TingHuaYa_28:

(Start: 60 @22494 has 177 MA's), (92, 22593), (140, 22713), (153, 22734), (196, 22830), (255, 22938), (274, 23016), (294, 23112), (299, 23124), (310, 23163), (368, 23334), (370, 23346),

Gene: TiniBug_28 Start: 23281, Stop: 24294, Start Num: 57

Candidate Starts for TiniBug_28:

(47, 23236), (Start: 57 @23281 has 102 MA's), (Start: 95 @23392 has 3 MA's), (140, 23506), (196, 23623), (220, 23677), (255, 23731), (274, 23809), (294, 23905), (299, 23917), (310, 23956), (316, 23992), (341, 24061), (370, 24139), (388, 24235),

Gene: Tiri_28 Start: 23328, Stop: 24341, Start Num: 57

Candidate Starts for Tiri_28:

(10, 22884), (47, 23283), (Start: 57 @23328 has 102 MA's), (Start: 95 @23439 has 3 MA's), (140, 23553), (196, 23670), (212, 23712), (220, 23724), (255, 23778), (274, 23856), (290, 23940), (294, 23952), (299, 23964), (310, 24003), (343, 24117), (370, 24186),

Gene: Topper_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Topper_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: Torres_24 Start: 22900, Stop: 23907, Start Num: 60

Candidate Starts for Torres_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: Tortellini_22 Start: 21866, Stop: 22936, Start Num: 60

Candidate Starts for Tortellini_22:

(Start: 60 @21866 has 177 MA's), (150, 22106), (164, 22142), (168, 22151), (171, 22157), (192, 22202), (210, 22247), (219, 22265), (226, 22292), (255, 22373), (275, 22454), (309, 22592), (310, 22595),

Gene: Towmatter_36 Start: 34440, Stop: 35507, Start Num: 60

Candidate Starts for Towmatter_36:

(Start: 60 @34440 has 177 MA's), (197, 34785), (217, 34830), (227, 34860), (304, 35151), (306, 35157), (311, 35175), (323, 35241), (324, 35244), (339, 35262), (354, 35310), (396, 35496),

Gene: TpudiCK_32 Start: 26991, Stop: 28046, Start Num: 60

Candidate Starts for TpudiCK_32:

(Start: 60 @26991 has 177 MA's), (135, 27204), (155, 27240), (185, 27303), (218, 27375), (226, 27405), (234, 27426), (249, 27462), (258, 27498), (270, 27546), (274, 27567), (276, 27573), (279, 27603), (280, 27606), (291, 27654), (352, 27843), (358, 27864), (375, 27918),

Gene: Tracker_44 Start: 34752, Stop: 35810, Start Num: 62

Candidate Starts for Tracker_44:

(1, 33312), (2, 33609), (3, 33840), (6, 34209), (29, 34587), (31, 34602), (33, 34620), (Start: 62 @34752 has 27 MA's), (201, 35097), (221, 35148), (238, 35196),

Gene: TreyKay_28 Start: 23290, Stop: 24303, Start Num: 57

Candidate Starts for TreyKay_28:

(47, 23245), (Start: 57 @23290 has 102 MA's), (Start: 95 @23401 has 3 MA's), (140, 23515), (196, 23632), (212, 23674), (220, 23686), (255, 23740), (274, 23818), (290, 23902), (294, 23914), (299, 23926), (310, 23965), (388, 24244),

Gene: TribbleTrouble_27 Start: 23874, Stop: 24935, Start Num: 60

Candidate Starts for TribbleTrouble_27:

(34, 23769), (Start: 60 @23874 has 177 MA's), (73, 23907), (83, 23946), (103, 23997), (105, 24006), (114, 24033), (134, 24081), (166, 24147), (182, 24183), (188, 24198), (198, 24216), (199, 24219), (205, 24234), (238, 24321), (278, 24492), (370, 24792),

Gene: Trice_24 Start: 22861, Stop: 23907, Start Num: 50

Candidate Starts for Trice_24:

(46, 22849), (50, 22861), (Start: 60 @22900 has 177 MA's), (79, 22960), (105, 23032), (124, 23086), (134, 23107), (196, 23236), (213, 23281), (218, 23284), (254, 23341), (255, 23344), (267, 23389), (275, 23425), (294, 23521), (299, 23533), (327, 23653), (377, 23785),

Gene: TruffulaTree_28 Start: 23319, Stop: 24332, Start Num: 57

Candidate Starts for TruffulaTree_28:

(10, 22875), (47, 23274), (Start: 57 @23319 has 102 MA's), (140, 23544), (196, 23661), (212, 23703), (220, 23715), (255, 23769), (274, 23847), (294, 23943), (299, 23955), (307, 23985), (310, 23994), (343, 24108), (370, 24177),

Gene: Twitch_28 Start: 23356, Stop: 24369, Start Num: 57

Candidate Starts for Twitch_28:

(10, 22912), (47, 23311), (Start: 57 @23356 has 102 MA's), (140, 23581), (196, 23698), (212, 23740), (220, 23752), (255, 23806), (274, 23884), (294, 23980), (307, 24022), (310, 24031), (343, 24145), (370, 24214),

Gene: TyDawg_31 Start: 26992, Stop: 28047, Start Num: 60

Candidate Starts for TyDawg_31:

(Start: 60 @26992 has 177 MA's), (135, 27205), (155, 27241), (185, 27304), (218, 27376), (226, 27406), (234, 27427), (249, 27463), (258, 27499), (270, 27547), (274, 27568), (276, 27574), (279, 27604), (280, 27607), (291, 27655), (352, 27844), (358, 27865), (375, 27919),

Gene: Typha_28 Start: 26025, Stop: 27062, Start Num: 60

Candidate Starts for Typha_28:

(Start: 60 @26025 has 177 MA's), (101, 26148), (121, 26202), (135, 26238), (168, 26301), (192, 26349), (216, 26403), (218, 26406), (274, 26592), (279, 26628), (289, 26670), (294, 26688), (310, 26739),

Gene: Unicorn_28 Start: 22720, Stop: 23781, Start Num: 60

Candidate Starts for Unicorn_28:

(34, 22630), (43, 22687), (Start: 60 @22720 has 177 MA's), (93, 22819), (134, 22927), (140, 22939), (153, 22960), (196, 23056), (239, 23170), (254, 23221), (278, 23338), (349, 23581), (354, 23599), (370, 23638),

Gene: Urkel_28 Start: 23284, Stop: 24297, Start Num: 57

Candidate Starts for Urkel_28:

(47, 23239), (Start: 57 @23284 has 102 MA's), (Start: 95 @23395 has 3 MA's), (140, 23509), (196, 23626), (212, 23668), (220, 23680), (255, 23734), (274, 23812), (294, 23908), (299, 23920), (310, 23959), (316, 23995), (370, 24142), (388, 24238),

Gene: Validus_28 Start: 22666, Stop: 23631, Start Num: 57

Candidate Starts for Validus_28:

(51, 22630), (Start: 57 @22666 has 102 MA's), (Start: 62 @22672 has 27 MA's), (Start: 95 @22780 has 3 MA's), (105, 22807), (124, 22861), (161, 22936), (204, 23029), (224, 23083), (274, 23197), (275, 23200), (292, 23284), (310, 23341), (324, 23395), (347, 23437), (361, 23476),

Gene: Veliki_28 Start: 23359, Stop: 24372, Start Num: 57

Candidate Starts for Veliki_28:

(10, 22915), (21, 23062), (47, 23314), (Start: 57 @23359 has 102 MA's), (Start: 95 @23470 has 3 MA's), (140, 23584), (196, 23701), (212, 23743), (220, 23755), (255, 23809), (274, 23887), (294, 23983), (299, 23995), (307, 24025), (310, 24034), (343, 24148), (370, 24217),

Gene: Venti_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Venti_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Vidya_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Vidya_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: ViviJ_26 Start: 23840, Stop: 24904, Start Num: 60

Candidate Starts for ViviJ_26:

(Start: 60 @23840 has 177 MA's), (89, 23930), (98, 23957), (121, 24020), (145, 24068), (161, 24107), (169, 24125), (192, 24170), (207, 24209), (226, 24257), (233, 24275), (258, 24350), (275, 24416), (292, 24506), (293, 24509), (294, 24512), (304, 24545), (324, 24644), (325, 24647), (359, 24731), (363, 24743), (390, 24860),

Gene: Vordorf_31 Start: 26927, Stop: 27976, Start Num: 64

Candidate Starts for Vordorf_31:

(64, 26927), (115, 27092), (133, 27137), (169, 27215), (216, 27329), (241, 27392), (255, 27443), (263, 27473), (270, 27500), (344, 27776),

Gene: WST1_22 Start: 19043, Stop: 20098, Start Num: 60

Candidate Starts for WST1_22:

(Start: 60 @19043 has 177 MA's), (98, 19160), (171, 19334), (223, 19451), (224, 19457), (275, 19622), (294, 19715), (309, 19763), (315, 19799), (350, 19892),

Gene: Waterfoul_27 Start: 23954, Stop: 25021, Start Num: 60

Candidate Starts for Waterfoul_27:

(Start: 60 @23954 has 177 MA's), (98, 24071), (137, 24176), (145, 24182), (171, 24242), (175, 24257), (192, 24284), (207, 24323), (209, 24326), (216, 24338), (218, 24341), (219, 24344), (223, 24359), (239, 24404), (243, 24410), (258, 24464), (270, 24512), (277, 24542), (287, 24587), (314, 24716), (327, 24770),

Gene: WheatThin_27 Start: 23315, Stop: 24382, Start Num: 63

Candidate Starts for WheatThin_27:

(Start: 63 @23315 has 17 MA's), (138, 23525), (216, 23693), (263, 23834), (267, 23849), (270, 23861), (275, 23885), (290, 23969), (325, 24116),

Gene: Wheezy_44 Start: 34957, Stop: 36015, Start Num: 62

Candidate Starts for Wheezy_44:

(1, 33517), (2, 33814), (3, 34045), (6, 34414), (29, 34792), (31, 34807), (33, 34825), (Start: 62 @34957 has 27 MA's), (201, 35302), (221, 35353), (238, 35401),

Gene: Willsammy_22 Start: 21571, Stop: 22605, Start Num: 60

Candidate Starts for Willsammy_22:

(Start: 60 @21571 has 177 MA's), (112, 21727), (114, 21733), (162, 21841), (164, 21844), (171, 21859), (210, 21946), (226, 21991), (255, 22072), (270, 22129), (275, 22153), (299, 22258), (314, 22330), (333, 22375),

Gene: Wintermute_29 Start: 24585, Stop: 25589, Start Num: 60

Candidate Starts for Wintermute_29:

(Start: 60 @24585 has 177 MA's), (Start: 80 @24654 has 1 MA's), (117, 24753), (136, 24798), (166, 24858), (171, 24867), (187, 24903), (205, 24948), (213, 24969), (219, 24975), (220, 24978), (274, 25110), (275, 25113), (303, 25236), (310, 25257), (385, 25524),

Gene: Wojtek_32 Start: 28749, Stop: 29798, Start Num: 61

Candidate Starts for Wojtek_32:

(Start: 61 @28749 has 33 MA's), (98, 28863), (112, 28905), (133, 28959), (139, 28974), (169, 29037), (255, 29262), (295, 29433), (370, 29661), (380, 29706),

Gene: Xavia_22 Start: 21888, Stop: 22955, Start Num: 60

Candidate Starts for Xavia_22:

(Start: 60 @21888 has 177 MA's), (114, 22050), (131, 22092), (164, 22161), (192, 22221), (210, 22266), (219, 22284), (226, 22311), (255, 22392), (270, 22449), (275, 22473), (313, 22644),

Gene: Xeno_21 Start: 20200, Stop: 21240, Start Num: 60

Candidate Starts for Xeno_21:

(Start: 60 @20200 has 177 MA's), (114, 20365), (131, 20407), (164, 20476), (192, 20536), (210, 20581), (226, 20626), (255, 20707), (270, 20764), (275, 20788), (299, 20893), (314, 20965), (333, 21010),

Gene: Ximenita_29 Start: 22823, Stop: 23818, Start Num: 60

Candidate Starts for Ximenita_29:

(34, 22733), (Start: 60 @22823 has 177 MA's), (93, 22922), (Start: 95 @22928 has 3 MA's), (159, 23078), (196, 23159), (274, 23345), (275, 23348), (291, 23432), (353, 23627), (386, 23756), (391, 23777), (393, 23795),

Gene: Y10_29 Start: 24585, Stop: 25589, Start Num: 60

Candidate Starts for Y10_29:

(Start: 60 @24585 has 177 MA's), (Start: 80 @24654 has 1 MA's), (117, 24753), (136, 24798), (140, 24804), (166, 24858), (171, 24867), (187, 24903), (205, 24948), (213, 24969), (219, 24975), (220, 24978), (274, 25110), (275, 25113), (303, 25236), (310, 25257), (385, 25524),

Gene: Y2_29 Start: 24585, Stop: 25589, Start Num: 60

Candidate Starts for Y2_29:

(Start: 60 @24585 has 177 MA's), (Start: 80 @24654 has 1 MA's), (117, 24753), (136, 24798), (140, 24804), (166, 24858), (171, 24867), (187, 24903), (205, 24948), (213, 24969), (219, 24975), (220, 24978), (274, 25110), (275, 25113), (303, 25236), (310, 25257), (385, 25524),

Gene: YasnayaPolyana_29 Start: 24655, Stop: 25590, Start Num: 80

Candidate Starts for YasnayaPolyana_29:

(Start: 60 @24586 has 177 MA's), (Start: 80 @24655 has 1 MA's), (117, 24754), (136, 24799), (166, 24859), (171, 24868), (187, 24904), (205, 24949), (213, 24970), (219, 24976), (220, 24979), (274, 25111), (275, 25114), (303, 25237), (310, 25258), (385, 25525),

Gene: Yikes_34 Start: 30133, Stop: 31182, Start Num: 61

Candidate Starts for Yikes_34:

(Start: 61 @30133 has 33 MA's), (98, 30247), (112, 30289), (133, 30343), (139, 30358), (169, 30421), (295, 30817), (332, 30952), (370, 31045),

Gene: YoureAdopted_27 Start: 23292, Stop: 24305, Start Num: 57

Candidate Starts for YoureAdopted_27:

(10, 22848), (21, 22995), (47, 23247), (Start: 57 @23292 has 102 MA's), (Start: 95 @23403 has 3 MA's), (140, 23517), (196, 23634), (212, 23676), (220, 23688), (255, 23742), (274, 23820), (294, 23916), (299, 23928), (307, 23958), (310, 23967), (315, 24000), (343, 24081), (370, 24150),

Gene: Yuna_29 Start: 23206, Stop: 24168, Start Num: 57

Candidate Starts for Yuna_29:

(Start: 57 @23206 has 102 MA's), (163, 23476), (167, 23485), (180, 23518), (185, 23530), (190, 23539), (204, 23566), (263, 23689), (275, 23740), (289, 23809), (295, 23830), (334, 23950),

Gene: Yunkel11_28 Start: 22542, Stop: 23603, Start Num: 57

Candidate Starts for Yunkel11_28:

(Start: 57 @22542 has 102 MA's), (Start: 95 @22656 has 3 MA's), (140, 22770), (153, 22791), (190, 22878), (201, 22899), (204, 22905), (260, 23013), (274, 23073), (296, 23193), (297, 23199), (298, 23205), (315, 23295), (360, 23421), (364, 23436),

Gene: Zabiza_28 Start: 23323, Stop: 24336, Start Num: 57

Candidate Starts for Zabiza_28:

(10, 22879), (21, 23026), (47, 23278), (Start: 57 @23323 has 102 MA's), (Start: 95 @23434 has 3 MA's), (140, 23548), (196, 23665), (212, 23707), (220, 23719), (255, 23773), (274, 23851), (294, 23947), (299, 23959), (307, 23989), (310, 23998), (343, 24112), (370, 24181),

Gene: Zany_32 Start: 29660, Stop: 30706, Start Num: 61

Candidate Starts for Zany_32:

(Start: 61 @29660 has 33 MA's), (98, 29774), (105, 29795), (133, 29870), (139, 29885), (169, 29948), (195, 30008), (233, 30110), (295, 30344),

Gene: Zavala_28 Start: 23298, Stop: 24311, Start Num: 57

Candidate Starts for Zavala_28:

(10, 22854), (47, 23253), (Start: 57 @23298 has 102 MA's), (140, 23523), (196, 23640), (212, 23682), (220, 23694), (255, 23748), (274, 23826), (294, 23922), (299, 23934), (307, 23964), (310, 23973), (343, 24087), (370, 24156),

Gene: Zilizebeth_22 Start: 21299, Stop: 22336, Start Num: 60

Candidate Starts for Zilizebeth_22:

(53, 21275), (Start: 57 @21296 has 102 MA's), (Start: 60 @21299 has 177 MA's), (69, 21323), (114, 21461), (131, 21503), (164, 21572), (192, 21632), (210, 21677), (226, 21722), (255, 21803), (270, 21860), (275, 21884), (299, 21989), (314, 22061), (333, 22106), (387, 22271),

Gene: Zodiariah_22 Start: 21904, Stop: 22950, Start Num: 63

Candidate Starts for Zodiariah_22:

(Start: 63 @21904 has 17 MA's), (96, 22009), (133, 22114), (207, 22288), (208, 22291), (270, 22474), (308, 22630), (322, 22702), (344, 22750), (346, 22753), (357, 22786),

Gene: ZoeJ_25 Start: 21223, Stop: 22245, Start Num: 60

Candidate Starts for ZoeJ_25:

(24, 21040), (34, 21139), (Start: 60 @21223 has 177 MA's), (93, 21325), (112, 21379), (114, 21385), (136, 21439), (140, 21445), (143, 21448), (177, 21526), (186, 21547), (188, 21550), (212, 21604), (276, 21754), (392, 22213), (393, 22222),