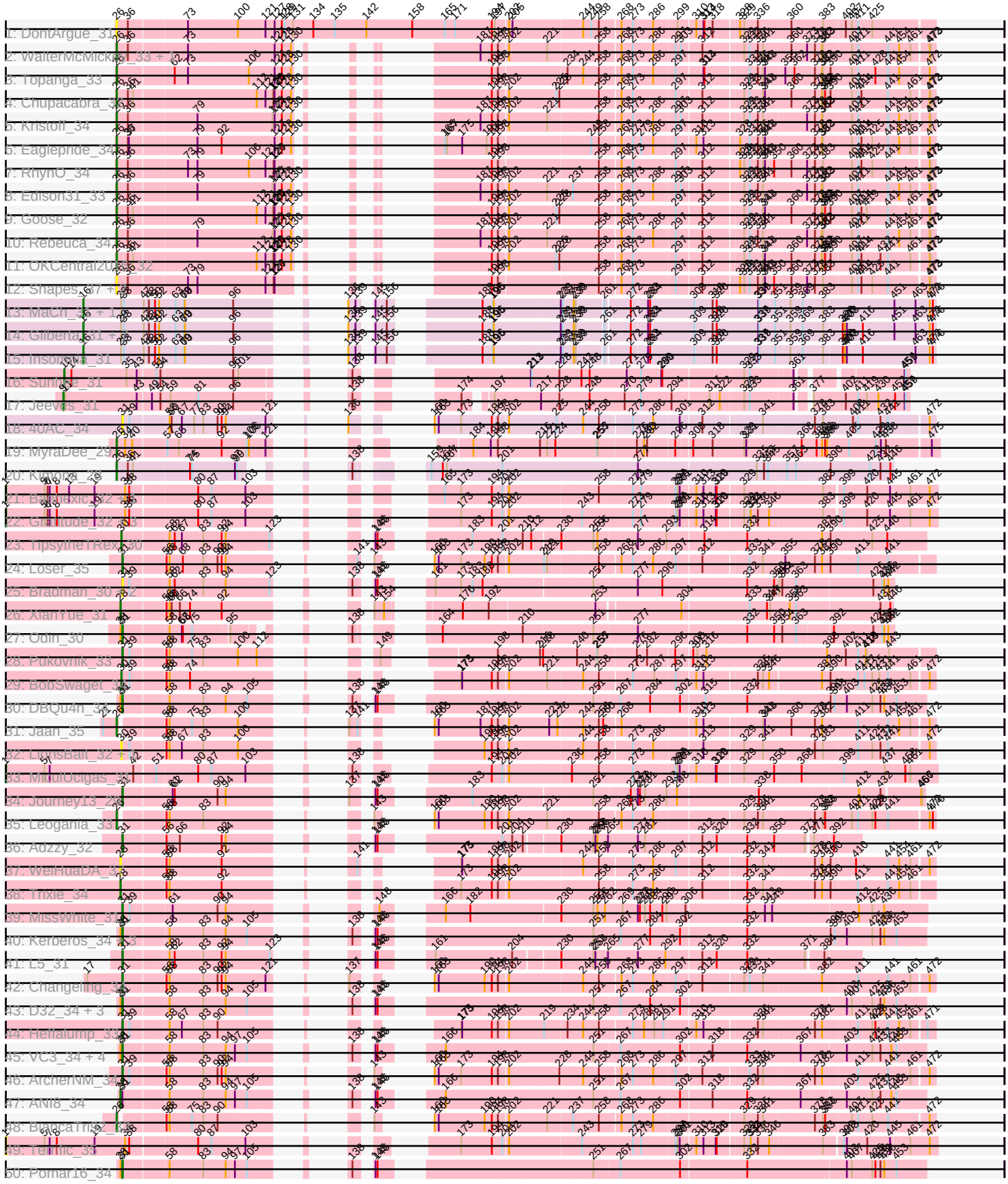
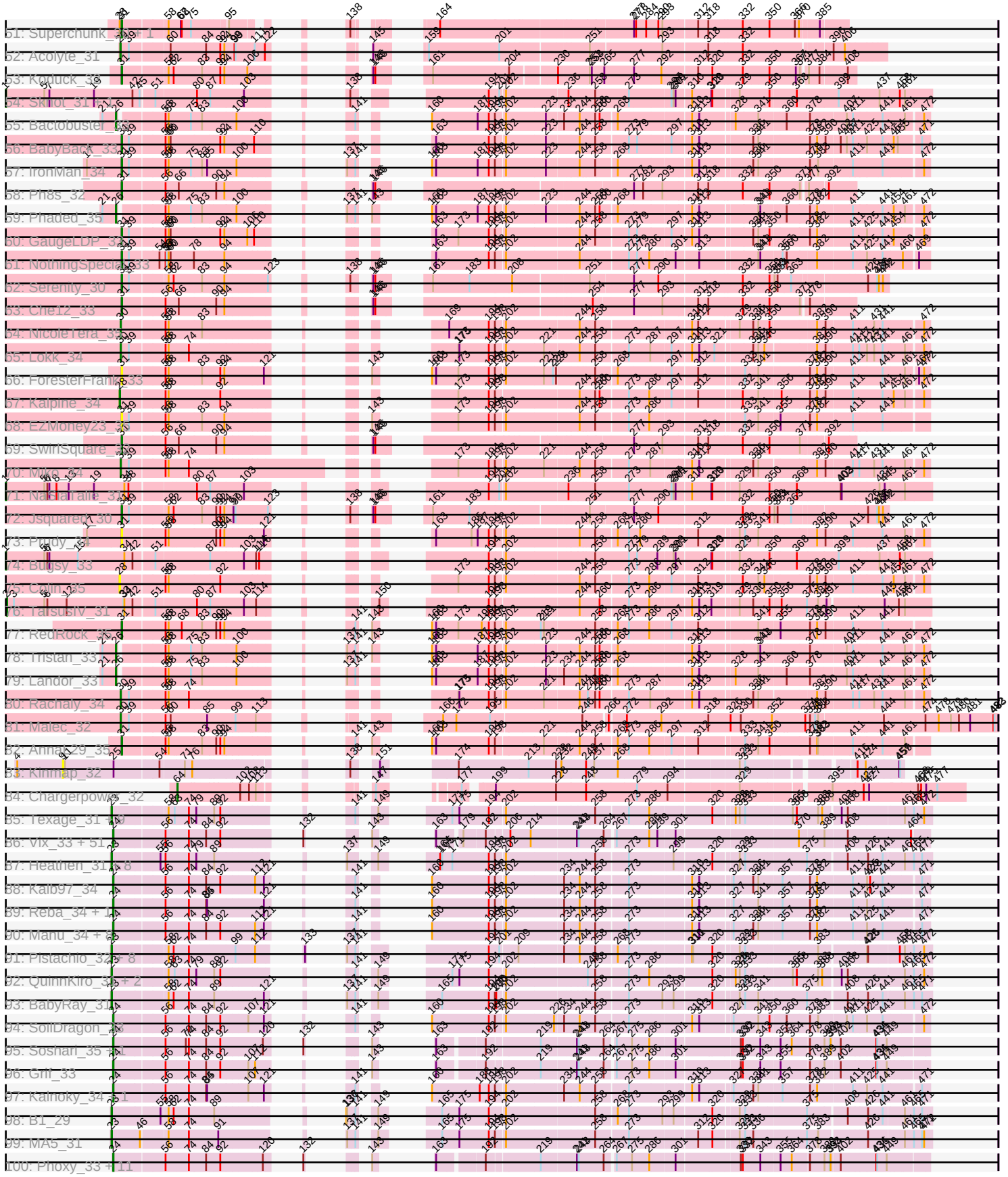
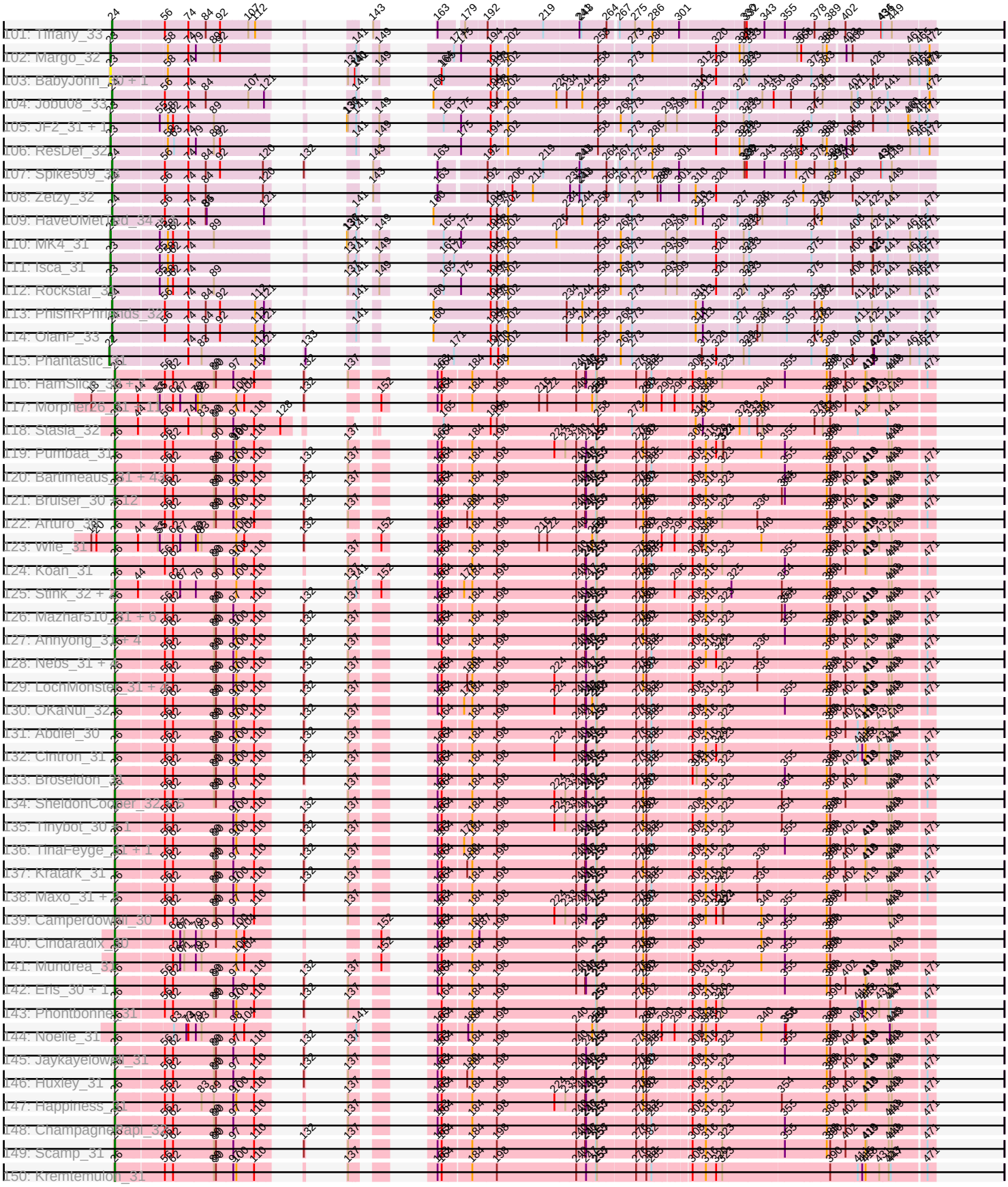
Pham 304611



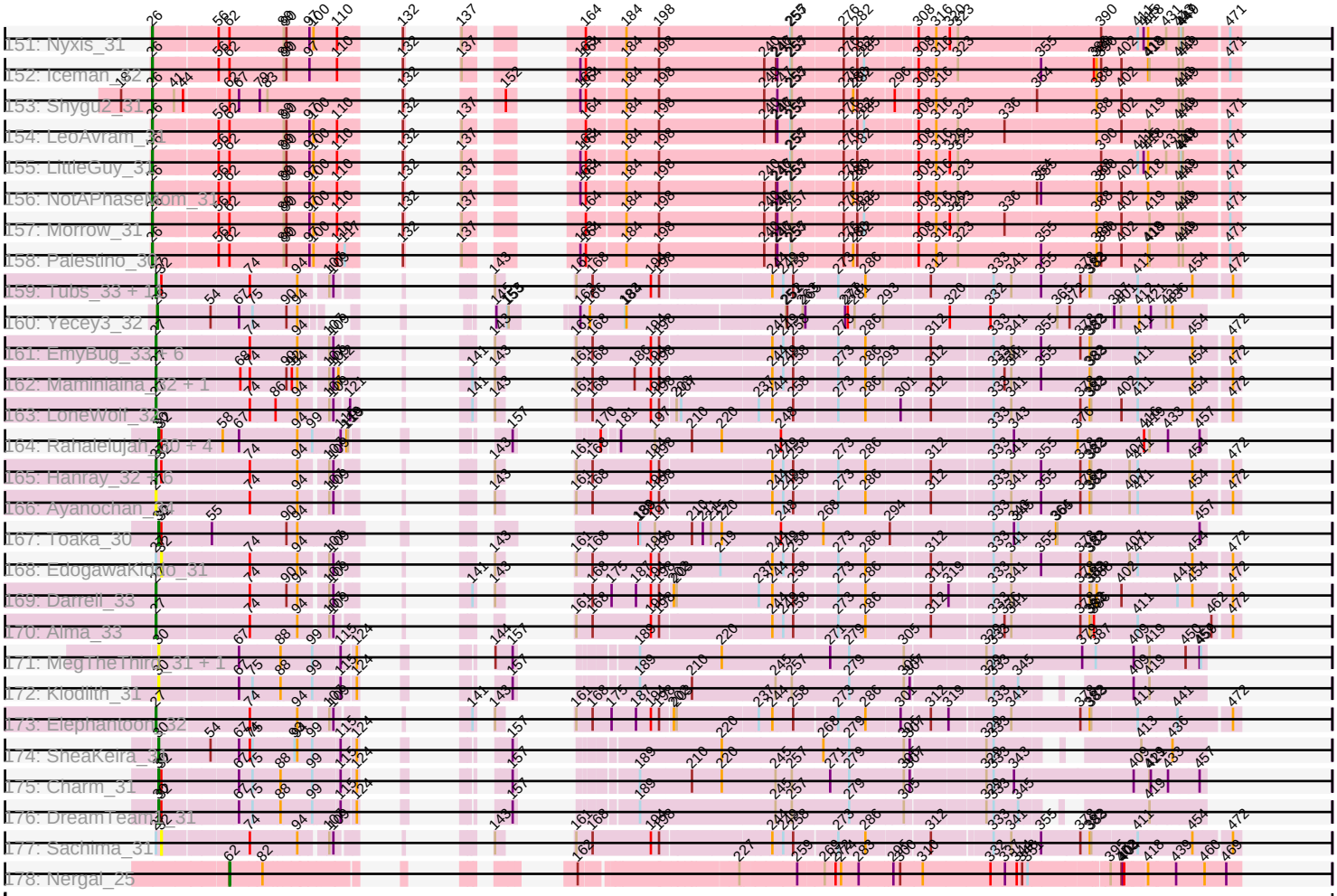
Pham 304611



Pham 304611



Pham 304611



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 304611 Report

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

Pham number 304611 has 443 members, 58 are drafts.

Phages represented in each track:
- Track 1 : DontArgue_31
- Track 2 : WalterMcMickey_33, Twister_33
- Track 3 : Topanga_33
- Track 4 : Chupacabra_32
- Track 5 : Kristoff_34
- Track 6 : Eaglepride_34
- Track 7 : RhynO_34
- Track 8 : Edison31_33
- Track 9 : Goose_32
- Track 10 : Rebeuca_34
- Track 11 : OKCentral2016_32
- Track 12 : Shapes_37, Rowdy_37, DustyMartin_37
- Track 13 : MaCh_31, Bachome_31
- Track 14 : Gilberta_31, Aneem_31, Munch_31, Lucivia_31, Joselito_31, Flaverint_31, Jabith_31, Bowtie_31
- Track 15 : Insomnia_31
- Track 16 : Sunhee_31
- Track 17 : Jeeves_31
- Track 18 : 40AC_34
- Track 19 : MyraDee_29
- Track 20 : Kimona_28
- Track 21 : Baehexic_32, Centaur_33
- Track 22 : Gratitude_32, WideWale_33, Updawg_33, Equemioh13_33
- Track 23 : TipsytheTRex_30
- Track 24 : Loser_35
- Track 25 : Bradman_30, Quokka_29, MajorMajor_30
- Track 26 : XianYue_31
- Track 27 : Odin_30
- Track 28 : Pukovnik_33
- Track 29 : BobSwaget_34
- Track 30 : DBQu4n_34
- Track 31 : Jaan_35
- Track 32 : LionsBait_32, HippoHollow_32
- Track 33 : MiculUcigas_31
- Track 34 : Journey13_29
- Track 35 : Leogania_33
- Track 36 : Adzzy_32

• Track 37 : WeiHuaDA_37
• Track 38 : Trixie_34
• Track 39 : MissWhite_31
• Track 40 : Kerberos_34, StarStuff_34, Duplo_34, Tomathan_34
• Track 41 : L5_31
• Track 42 : Changeling_34
• Track 43 : D32_34, Naji_34, D29_31, Travvers_34
• Track 44 : Heffalump_33
• Track 45 : VC3_34, AN3_31, VA6_31, C3_29, AN9_34
• Track 46 : ArcherNM_34
• Track 47 : ANI8_34
• Track 48 : BiancaTri92_33
• Track 49 : Terrific_35
• Track 50 : Pomar16_34
• Track 51 : Superchunk_30, Caraxes_30
• Track 52 : Acolyte_31
• Track 53 : Koduck_32
• Track 54 : Sknot_31, Flare16_31
• Track 55 : Bactobuster_33
• Track 56 : BabyBack_33
• Track 57 : IronMan_34
• Track 58 : Ph8s_32
• Track 59 : Phaded_35
• Track 60 : GaugeLDP_33
• Track 61 : NothingSpecial_33
• Track 62 : Serenity_30
• Track 63 : Che12_33
• Track 64 : NicoleTera_35
• Track 65 : Lokk_34
• Track 66 : ForesterFrank_33
• Track 67 : Kalpine_34
• Track 68 : EZMoney23_35
• Track 69 : SwirlSquare_32
• Track 70 : Miko_34
• Track 71 : NaSiaTalie_31
• Track 72 : Jsquared_30
• Track 73 : Prudy_34
• Track 74 : Bugsy_33
• Track 75 : Colin_35
• Track 76 : TarsusIV_31
• Track 77 : RedRock_35
• Track 78 : Tristan_33
• Track 79 : Landor_33
• Track 80 : Rachaly_34
• Track 81 : Malec_32
• Track 82 : AnnaL29_35
• Track 83 : Kinmap_32
• Track 84 : Chargerpower_32
• Track 85 : Texage_31, Hookmount_32, EtoileNova_32, Norbert_31, Lambert1_32, Noella_32, Panamaxus_31, Popcicle_32, Caviar_32, Pocahontas_32
• Track 86 : Vix_33, Microwolf_33, Montavir_32, Dieselweasel_33, MuchMore_35, DaHudson_33, Colbster_33, Phoebe_33, Grum1_33, Gwennie_32, JHC117_33, GtownJaz_33, AugsMagnumOpus_35, EpicPhail_33, LBerry_33, Aglet_33,

MarQuardt_33, GingkoMaracino_33, Mainiac_33, Snickers_33, Pembroke_33, Cullens_33, Malinsilva_35, Stagni_33, Penny1_33, Fernando_33, LugYA_35, Lilith_33, Watson_33, Lowa_33, Bigflo_33, Ollie_33, Wooldri_35, Anubis_35, P28Green_33, Taurus_33, JenCasNa_33, SoYo_33, Grub_33, Beauxregard13_33, MoneyMay_33, Marie_33, Sabinator_33, Hercules11_33, MadMarie_33, StepMih_33, PGHhamlin_35, Croquant_34, PotatoSplit_34, Farber_33, BreSam8_33, Sabia_33
• Track 87 : Heathen_31, Roimos_31, Fred313_31, Zarafa_31, DropBear_31, Scout_31, Kachowdy_31, HelDan_31, Marchesa_31
• Track 88 : Kalb97_34
• Track 89 : Reba_34, Phranny_34
• Track 90 : Manu_34, Groupthink_34, ClownCar_34, PurpleHaze_33, Marius_34, Pawn_33, Heliosoles_33, Calvinny_34, Gemma_33
• Track 91 : Pistachio_32, TNguyen7_31, Idleandcovert_31, BlueBird_32, Bugatti_31, Giroux_32, SaturnRing_31, Clammy_31, Puppy_32
• Track 92 : QuinnKiro_31, Veracruz_31, Todacoro_32
• Track 93 : BabyRay_31
• Track 94 : SoilDragon_33
• Track 95 : Soshari_35, Methuselah_32
• Track 96 : Grif_33
• Track 97 : Kalnoky_34, JeppNRM_34
• Track 98 : B1_29
• Track 99 : MA5_31
• Track 100 : Phoxy_33, Bxz2_32, LarryKay_33, Rummer_33, HashRod_34, Louie6_33, BuzzBuzz_32, TinyPebbles_33, Misomonster_35, KADY_34, Daishi_32, AgronaGT15_33
• Track 101 : Tiffany_33
• Track 102 : Margo_32
• Track 103 : BabyJohn_30, Chiqui_30
• Track 104 : Jobu08_33
• Track 105 : JF2_31, JF4_31
• Track 106 : ResDef_32
• Track 107 : Spike509_33
• Track 108 : Zetzy_32
• Track 109 : HaveUMetTed_34, ACFishhook_33
• Track 110 : MK4_31
• Track 111 : Isca_31
• Track 112 : Rockstar_31
• Track 113 : PhishRPhriends_32
• Track 114 : OlanP_33
• Track 115 : Phantastic_31
• Track 116 : HamSlice_30, Eapen_31, Relief_31, LappelDuVide_31, TroyPia_31, Pipcraft_31, Citius_31, Lunsford_32
• Track 117 : Morpher26_31, Datway_31, Katalie136_31, AbbysRanger_31, Achebe_30, PetiteSangsue_31, Perplexer_31, Backyardigan_31, Badger_31, Bumblebee11_31, Xena_31, Cici_31
• Track 118 : Stasia_32
• Track 119 : Pumbaa_31
• Track 120 : Bartimeaus_31, Wilbur_31, Ruin_31, TygerBlood_31, SteMason_30, Albee_31, RockieBear_30, Flux_31, Bombshell_31, TiroTheta9_31, Sabertooth_31, KekoraPapaka_30, JoongJeon_31, Millski_30, CentreCat_31, Thanksgivukkah_31, Lemur_31, LittleB_31, Druantia_31, Holli_31, Skipitt_31, Kingmustik0402_31, Romney_31, Roosevelt_31, Phelipe_31, Taquarus_31, Baby16_31, Chaph_31, Peaches_31, Deano_31, JetBlade_31, Connomayer_31, Florean_31,

SenorClean_31, Dhanush_31, Commander_31, Wizard007_31, Medusa_31, Melvin_31, Blackmoor_31, Burger_30, Eros_31, Clarenza_31, YoSam321_31
• Track 121 : Bruiser_30, Koreni_30, Avle17_31, Alberto7_32, Nemo27_31, Caelakin_31, Wander_31, Spino_31, Cocoaberry_31, Maverick_31, Phacado_31, Gadost_31, Houdini22_31
• Track 122 : Arturo_30
• Track 123 : Wile_31
• Track 124 : Koan_31
• Track 125 : Stink_32, AvatarAhPeg_32, Miramae_31
• Track 126 : Mazhar510_31, PeterPeter_31, Lorenzo_31, Shaka_31, Mayonnaise_31, ICleared_31, Sultana_31
• Track 127 : Annyong_31, BubbleTrouble_31, Kyee_31, KFPoly_31, MeeZee_31
• Track 128 : Nebs_31, BellusTerra_31, Eurydice_31, Ohfah_31, Polymorphads_31
• Track 129 : LochMonster_31, Phighter1804_31, DirtyDunning_31, Ulysses_30, Iracema64_32
• Track 130 : OKaNui_32
• Track 131 : Abdiel_30
• Track 132 : Cintron_31
• Track 133 : Broseidon_31
• Track 134 : SheldonCooper_32, Obama12_32, Eagle_30, LHTSCC_32, BangNhom_31, Cerulean_32
• Track 135 : Tinybot_30, Rosa24_30
• Track 136 : TinaFeyge_31, NorthStar_31
• Track 137 : Kratark_31
• Track 138 : Maxo_31, Kampy_31, Sparxx_31
• Track 139 : Camperdownii_30
• Track 140 : Cindaradix_30
• Track 141 : Mundrea_31
• Track 142 : Eris_30, Funston_31
• Track 143 : Phontbonne_31
• Track 144 : Noelle_31
• Track 145 : Jaykayelowell_31
• Track 146 : Huxley_31
• Track 147 : Happiness_31
• Track 148 : ChampagnePapi_32
• Track 149 : Scamp_31
• Track 150 : Kremtemulon_31
• Track 151 : Nyxis_31
• Track 152 : Iceman_32
• Track 153 : Shygu2_31
• Track 154 : LeoAvram_31
• Track 155 : LittleGuy_31
• Track 156 : NotAPhaseMom_31
• Track 157 : Morrow_31
• Track 158 : Palestino_30
• Track 159 : Tubs_33, Aliter_33, Ugenie5_30, Holex_32, Fayely_33, Myxus_33, Catalina_34, HortumSL17_33, Lilleskat_31, PackMan_33, Phaeder_33, Scherzo_33
• Track 160 : Yecey3_32
• Track 161 : EmyBug_33, Eidsmoe_33, Conquerage_33, Qobbit_33, Spouty_33, Priya_33, ExplosioNervosa_33
• Track 162 : Maminiaina_32, BogosyJay_32
• Track 163 : LoneWolf_32

• Track 164 : Rahalelujah_30, CogOmlette_29, Bellris_29, Minispark_29, WorldCup_29
• Track 165 : Hanray_32, Phonnegut_33, Beemo_33, Jiawan_32, Pioneer_33, RyeScarlet_34, Onglai_32
• Track 166 : Ayanochan_34
• Track 167 : Toaka_30
• Track 168 : EdogawaKiddo_31
• Track 169 : Darrell_33
• Track 170 : Alma_33
• Track 171 : MegTheThird_31, Celestialunch_31
• Track 172 : Klodlith_31
• Track 173 : Elephantoon_32
• Track 174 : SheaKeira_31
• Track 175 : Charm_31
• Track 176 : DreamTeam1_31
• Track 177 : Sachima_31
• Track 178 : Nergal_25

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

The start number called the most often in the published annotations is 26, it was called in 162 of the 385 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbysRanger_31, Abdiel_30, Achebe_30, Albee_31, Alberto7_32, Annyong_31, Arturo_30, AvatarAhPeg_32, Avle17_31, Baby16_31, Backyardigan_31, Bactobuster_33, Badger_31, BangNhom_31, Bartimeaus_31, BellusTerra_31, BiancaTri92_33, Blackmoor_31, Bombshell_31, Broseidon_31, Bruiser_30, BubbleTrouble_31, Bumblebee11_31, Burger_30, Caelakin_31, Camperdownii_30, CentreCat_31, Cerulean_32, ChampagnePapi_32, Chaph_31, Chupacabra_32, Cici_31, Cindaradix_30, Cintron_31, Citius_31, Clarenza_31, Cocoaberry_31, Commander_31, Connomayer_31, Datway_31, Deano_31, Dhanush_31, DirtyDunning_31, DontArgue_31, Druantia_31, DustyMartin_37, Eagle_30, Eaglepride_34, Eapen_31, Edison31_33, Eris_30, Eros_31, Eurydice_31, Florean_31, Flux_31, Funston_31, Gadost_31, Goose_32, HamSlice_30, Happiness_31, Holli_31, Houdini22_31, Huxley_31, ICleared_31, Iceman_32, Iracema64_32, Jaan_35, Jaykayelowell_31, JetBlade_31, JoongJeon_31, KFPoly_31, Kampy_31, Katalie136_31, KekoraPapaka_30, Kimona_28, Kingmustik0402_31, Koan_31, Koreni_30, Kratark_31, Kremtemulon_31, Kristoff_34, Kyee_31, LHTSCC_32, Landor_33, LappelDuVide_31, Lemur_31, LeoAvram_31, Leogania_33, LittleB_31, LittleGuy_31, LochMonster_31, Lorenzo_31, Lunsford_32, Maverick_31, Maxo_31, Mayonnaise_31, Mazhar510_31, Medusa_31, MeeZee_31, Melvin_31, Millski_30, Miramae_31, Morpher26_31, Morrow_31, Mundrea_31, MyraDee_29, Nebs_31, Nemo27_31, Noelle_31, NorthStar_31, NotAPhaseMom_31, Nyxis_31, OKCentral2016_32, OKaNui_32, Obama12_32, Ohfah_31, Palestino_30, Peaches_31, Perplexer_31, PeterPeter_31, PetiteSangsue_31, Phacado_31, Phaded_35, Phelipe_31, Phighter1804_31, Phontbonne_31, Pipcraft_31, Polymorphads_31, Pumbaa_31, Rebeuca_34, Relief_31, RhynO_34, RockieBear_30, Romney_31, Roosevelt_31, Rosa24_30, Rowdy_37, Ruin_31, Sabertooth_31, Scamp_31, SenorClean_31, Shaka_31, Shapes_37, SheldonCooper_32, Shygu2_31,

Skipitt_31, Sparxx_31, Spino_31, Stasia_32, SteMason_30, Stink_32, Sultana_31, Taquarus_31, Thanksgivukkah_31, TinaFeyge_31, Tinybot_30, TiroTheta9_31, Topanga_33, Tristan_33, TroyPia_31, Twister_33, TygerBlood_31, Ulysses_30, WalterMcMickey_33, Wander_31, Wilbur_31, Wile_31, Wizard007_31, Xena_31, YoSam321_31,

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

Genes that do not have the "Most Annotated" start:
• 40AC_34, ACFishhook_33, AN3_31, AN9_34, ANI8_34, Acolyte_31, Adzzy_32, Aglet_33, AgronaGT15_33, Aliter_33, Alma_33, Aneem_31, AnnaL29_35, Anubis_35, ArcherNM_34, AugsMagnumOpus_35, Ayanochan_34, B1_29, BabyBack_33, BabyJohn_30, BabyRay_31, Bachome_31, Baehexic_32, Beauxregard13_33, Beemo_33, Bellris_29, Bigflo_33, BlueBird_32, BobSwaget_34, BogosyJay_32, Bowtie_31, Bradman_30, BreSam8_33, Bugatti_31, Bugsy_33, BuzzBuzz_32, Bxz2_32, C3_29, Calvinny_34, Caraxes_30, Catalina_34, Caviar_32, Celestialunch_31, Centaur_33, Changeling_34, Chargerpower_32, Charm_31, Che12_33, Chiqui_30, Clammy_31, ClownCar_34, CogOmlette_29, Colbster_33, Colin_35, Conquerage_33, Croquant_34, Cullens_33, D29_31, D32_34, DBQu4n_34, DaHudson_33, Daishi_32, Darrell_33, Dieselweasel_33, DreamTeam1_31, DropBear_31, Duplo_34, EZMoney23_35, EdogawaKiddo_31, Eidsmoe_33, Elephantoon_32, EmyBug_33, EpicPhail_33, Equemioh13_33, EtoileNova_32, ExplosioNervosa_33, Farber_33, Fayely_33, Fernando_33, Flare16_31, Flaverint_31, ForesterFrank_33, Fred313_31, GaugeLDP_33, Gemma_33, Gilberta_31, GingkoMaracino_33, Giroux_32, Gratitude_32, Grif_33, Groupthink_34, Grub_33, Grum1_33, GtownJaz_33, Gwennie_32, Hanray_32, HashRod_34, HaveUMetTed_34, Heathen_31, Heffalump_33, HelDan_31, Heliosoles_33, Hercules11_33, HippoHollow_32, Holex_32, Hookmount_32, HortumSL17_33, Idleandcovert_31, Insomnia_31, IronMan_34, Isca_31, JF2_31, JF4_31, JHC117_33, Jabith_31, Jeeves_31, JenCasNa_33, JeppNRM_34, Jiawan_32, Jobu08_33, Joselito_31, Journey13_29, Jsquared_30, KADY_34, Kachowdy_31, Kalb97_34, Kalnoky_34, Kalpine_34, Kerberos_34, Kinmap_32, Klodlith_31, Koduck_32, L5_31, LBerry_33, Lambert1_32, LarryKay_33, Lilith_33, Lilleskat_31, LionsBait_32, Lokk_34, LoneWolf_32, Loser_35, Louie6_33, Lowa_33, Lucivia_31, LugYA_35, MA5_31, MK4_31, MaCh_31, MadMarie_33, Mainiac_33, MajorMajor_30, Malec_32, Malinsilva_35, Maminiaina_32, Manu_34, MarQuardt_33, Marchesa_31, Margo_32, Marie_33, Marius_34, MegTheThird_31, Methuselah_32, Microwolf_33, MiculUcigas_31, Miko_34, Minispark_29, Misomonster_35, MissWhite_31, MoneyMay_33, Montavir_32, MuchMore_35, Munch_31, Myxus_33, NaSiaTalie_31, Naji_34, Nergal_25, NicoleTera_35, Noella_32, Norbert_31, NothingSpecial_33, Odin_30, OlanP_33, Ollie_33, Onglai_32, P28Green_33, PGHhamlin_35, PackMan_33, Panamaxus_31, Pawn_33, Pembroke_33, Penny1_33, Ph8s_32, Phaeder_33, Phantastic_31, PhishRPhriends_32, Phoebe_33, Phonnegut_33, Phoxy_33, Phranny_34, Pioneer_33, Pistachio_32, Pocahontas_32, Pomar16_34, Popcicle_32, PotatoSplit_34, Priya_33, Prudy_34, Pukovnik_33, Puppy_32, PurpleHaze_33, Qobbit_33, QuinnKiro_31, Quokka_29, Rachaly_34, Rahalelujah_30, Reba_34, RedRock_35, ResDef_32, Rockstar_31, Roimos_31, Rummer_33, RyeScarlet_34, Sabia_33, Sabinator_33, Sachima_31, SaturnRing_31, Scherzo_33, Scout_31, Serenity_30, SheaKeira_31, Sknot_31, Snickers_33, SoYo_33, SoilDragon_33, Soshari_35, Spike509_33, Spouty_33, Stagni_33, StarStuff_34, StepMih_33, Sunhee_31, Superchunk_30, SwirlSquare_32, TNguyen7_31, TarsusIV_31, Taurus_33, Terrific_35, Texage_31, Tiffany_33, TinyPebbles_33,

TipsytheTRex_30, Toaka_30, Todacoro_32, Tomathan_34, Travvers_34, Trixie_34, Tubs_33, Ugenie5_30, Updawg_33, VA6_31, VC3_34, Veracruz_31, Vix_33, Watson_33, WeiHuaDA_37, WideWale_33, Wooldri_35, WorldCup_29, XianYue_31, Yecey3_32, Zarafa_31, Zetzy_32,

Summary by start number:

Start 1:
• Found in 12 of 443 (2.7%) of genes in pham
• Manual Annotations of this start: 10 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Baehexic_32 (A2), Bugsy_33 (A2), Centaur_33 (A2), Equemioh13_33 (A2), Flare16_31 (A2), Gratitude_32 (A2), MiculUcigas_31 (A2), NaSiaTalie_31 (A2), Sknot_31 (A2), Terrific_35 (A2), Updawg_33 (A2), WideWale_33 (A2),

Start 2:
• Found in 1 of 443 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TarsusIV_31 (A2),

Start 9:
• Found in 2 of 443 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jeeves_31 (A14), Kinmap_32 (A21),

Start 10:
• Found in 1 of 443 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunhee_31 (A14),

Start 16:
• Found in 11 of 443 (2.5%) of genes in pham
• Manual Annotations of this start: 11 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aneem_31 (A11), Bachome_31 (A11), Bowtie_31 (A11), Flaverint_31 (A11), Gilberta_31 (A11), Insomnia_31 (A11), Jabith_31 (A11), Joselito_31 (A11), Lucivia_31 (A11), MaCh_31 (A11), Munch_31 (A11),

Start 22:
• Found in 1 of 443 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phantastic_31 (A3),

Start 23:
• Found in 43 of 443 (9.7%) of genes in pham
• Manual Annotations of this start: 32 of 385
• Called 100.0% of time when present

• Phage (with cluster) where this start called: B1_29 (A3), BabyJohn_30 (A3), BabyRay_31 (A3), BlueBird_32 (A3), Bugatti_31 (A3), Caviar_32 (A3), Chiqui_30 (A3), Clammy_31 (A3), DropBear_31 (A3), EtoileNova_32 (A3), Fred313_31 (A3), Giroux_32 (A3), Heathen_31 (A3), HelDan_31 (A3), Hookmount_32 (A3), Idleandcovert_31 (A3), Isca_31 (A3), JF2_31 (A3), JF4_31 (A3), Kachowdy_31 (A3), Lambert1_32 (A3), MA5_31 (A3), MK4_31 (A3), Marchesa_31 (A3), Margo_32 (A3), Noella_32 (A3), Norbert_31 (A3), Panamaxus_31 (A3), Pistachio_32 (A3), Pocahontas_32 (A3), Popcicle_32 (A3), Puppy_32 (A3), QuinnKiro_31 (A3), ResDef_32 (A3), Rockstar_31 (A3), Roimos_31 (A3), SaturnRing_31 (A3), Scout_31 (A3), TNguyen7_31 (A3), Texage_31 (A3), Todacoro_32 (A3), Veracruz_31 (A3), Zarafa_31 (A3),

Start 24:
• Found in 90 of 443 (20.3%) of genes in pham
• Manual Annotations of this start: 83 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ACFishhook_33 (A3), Aglet_33 (A3), AgronaGT15_33 (A3), Anubis_35 (A3), AugsMagnumOpus_35 (A3), Beauxregard13_33 (A3), Bigflo_33 (A3), BreSam8_33 (A3), BuzzBuzz_32 (A3), Bxz2_32 (A3), Calvinny_34 (A3), ClownCar_34 (A3), Colbster_33 (A3), Croquant_34 (A3), Cullens_33 (A3), DaHudson_33 (A3), Daishi_32 (A3), Dieselweasel_33 (A3), EpicPhail_33 (A3), Farber_33 (A3), Fernando_33 (A3), Gemma_33 (A3), GingkoMaracino_33 (A3), Grif_33 (A3), Groupthink_34 (A3), Grub_33 (A3), Grum1_33 (A3), GtownJaz_33 (A3), Gwennie_32 (A3), HashRod_34 (A3), HaveUMetTed_34 (A3), Heliosoles_33 (A3), Hercules11_33 (A3), JHC117_33 (A3), JenCasNa_33 (A3), JeppNRM_34 (A3), Jobu08_33 (A3), KADY_34 (A3), Kalb97_34 (A3), Kalnoky_34 (A3), LBerry_33 (A3), LarryKay_33 (A3), Lilith_33 (A3), Louie6_33 (A3), Lowa_33 (A3), LugYA_35 (A3), MadMarie_33 (A3), Mainiac_33 (A3), Malinsilva_35 (A3), Manu_34 (A3), MarQuardt_33 (A3), Marie_33 (A3), Marius_34 (A3), Methuselah_32 (A3), Microwolf_33 (A3), Misomonster_35 (A3), MoneyMay_33 (A3), Montavir_32 (A3), MuchMore_35 (A3), OlanP_33 (A3), Ollie_33 (A3), P28Green_33 (A3), PGHhamlin_35 (A3), Pawn_33 (A3), Pembroke_33 (A3), Penny1_33 (A3), PhishRPhriends_32 (A3), Phoebe_33 (A3), Phoxy_33 (A3), Phranny_34 (A3), PotatoSplit_34 (A3), PurpleHaze_33 (A3), Reba_34 (A3), Rummer_33 (A3), Sabia_33 (A3), Sabinator_33 (A3), Snickers_33 (A3), SoYo_33 (A3), SoilDragon_33 (A3), Soshari_35 (A3), Spike509_33 (A3), Stagni_33 (A3), StepMih_33 (A3), Taurus_33 (A3), Tiffany_33 (A3), TinyPebbles_33 (A3), Vix_33 (A3), Watson_33 (A3), Wooldri_35 (A3), Zetzy_32 (A3),

Start 26:
• Found in 170 of 443 (38.4%) of genes in pham
• Manual Annotations of this start: 162 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbysRanger_31 (A4), Abdiel_30 (A4), Achebe_30 (A4), Albee_31 (A4), Alberto7_32 (A4), Annyong_31 (A4), Arturo_30 (A4), AvatarAhPeg_32 (A4), Avle17_31 (A4), Baby16_31 (A4), Backyardigan_31 (A4), Bactobuster_33 (A2), Badger_31 (A4), BangNhom_31 (A4), Bartimeaus_31 (A4), BellusTerra_31 (A4), BiancaTri92_33 (A2), Blackmoor_31 (A4), Bombshell_31 (A4), Broseidon_31 (A4), Bruiser_30 (A4), BubbleTrouble_31 (A4), Bumblebee11_31 (A4), Burger_30 (A4), Caelakin_31 (A4), Camperdownii_30 (A4), CentreCat_31 (A4), Cerulean_32 (A4), ChampagnePapi_32 (A4), Chaph_31 (A4), Chupacabra_32 (A10), Cici_31 (A4), Cindaradix_30 (A4), Cintron_31 (A4), Citius_31 (A4), Clarenza_31 (A4), Cocoaberry_31 (A4), Commander_31 (A4), Connomayer_31 (A4), Datway_31 (A4),

Deano_31 (A4), Dhanush_31 (A4), DirtyDunning_31 (A4), DontArgue_31 (A10), Druantia_31 (A4), DustyMartin_37 (A10), Eagle_30 (A4), Eaglepride_34 (A10), Eapen_31 (A4), Edison31_33 (A10), Eris_30 (A4), Eros_31 (A4), Eurydice_31 (A4), Florean_31 (A4), Flux_31 (A4), Funston_31 (A4), Gadost_31 (A4), Goose_32 (A10), HamSlice_30 (A4), Happiness_31 (A4), Holli_31 (A4), Houdini22_31 (A4), Huxley_31 (A4), ICleared_31 (A4), Iceman_32 (A4), Iracema64_32 (A4), Jaan_35 (A2), Jaykayelowell_31 (A4), JetBlade_31 (A4), JoongJeon_31 (A4), KFPoly_31 (A4), Kampy_31 (A4), Katalie136_31 (A4), KekoraPapaka_30 (A4), Kimona_28 (A19), Kingmustik0402_31 (A4), Koan_31 (A4), Koreni_30 (A4), Kratark_31 (A4), Kremtemulon_31 (A4), Kristoff_34 (A10), Kyee_31 (A4), LHTSCC_32 (A4), Landor_33 (A2), LappelDuVide_31 (A4), Lemur_31 (A4), LeoAvram_31 (A4), Leogania_33 (A2), LittleB_31 (A4), LittleGuy_31 (A4), LochMonster_31 (A4), Lorenzo_31 (A4), Lunsford_32 (A4), Maverick_31 (A4), Maxo_31 (A4), Mayonnaise_31 (A4), Mazhar510_31 (A4), Medusa_31 (A4), MeeZee_31 (A4), Melvin_31 (A4), Millski_30 (A4), Miramae_31 (A4), Morpher26_31 (A4), Morrow_31 (A4), Mundrea_31 (A4), MyraDee_29 (A18), Nebs_31 (A4), Nemo27_31 (A4), Noelle_31 (A4), NorthStar_31 (A4), NotAPhaseMom_31 (A4), Nyxis_31 (A4), OKCentral2016_32 (A10), OKaNui_32 (A4), Obama12_32 (A4), Ohfah_31 (A4), Palestino_30 (A4), Peaches_31 (A4), Perplexer_31 (A4), PeterPeter_31 (A4), PetiteSangsue_31 (A4), Phacado_31 (A4), Phaded_35 (A2), Phelipe_31 (A4), Phighter1804_31 (A4), Phontbonne_31 (A4), Pipcraft_31 (A4), Polymorphads_31 (A4), Pumbaa_31 (A4), Rebeuca_34 (A10), Relief_31 (A4), RhynO_34 (A10), RockieBear_30 (A4), Romney_31 (A4), Roosevelt_31 (A4), Rosa24_30 (A4), Rowdy_37 (A10), Ruin_31 (A4), Sabertooth_31 (A4), Scamp_31 (A4), SenorClean_31 (A4), Shaka_31 (A4), Shapes_37 (A10), SheldonCooper_32 (A4), Shygu2_31 (A4), Skipitt_31 (A4), Sparxx_31 (A4), Spino_31 (A4), Stasia_32 (A4), SteMason_30 (A4), Stink_32 (A4), Sultana_31 (A4), Taquarus_31 (A4), Thanksgivukkah_31 (A4), TinaFeyge_31 (A4), Tinybot_30 (A4), TiroTheta9_31 (A4), Topanga_33 (A10), Tristan_33 (A2), TroyPia_31 (A4), Twister_33 (A10), TygerBlood_31 (A4), Ulysses_30 (A4), WalterMcMickey_33 (A10), Wander_31 (A4), Wilbur_31 (A4), Wile_31 (A4), Wizard007_31 (A4), Xena_31 (A4), YoSam321_31 (A4),

Start 27:
• Found in 35 of 443 (7.9%) of genes in pham
• Manual Annotations of this start: 26 of 385
• Called 94.3% of time when present
• Phage (with cluster) where this start called: Aliter_33 (A9), Alma_33 (A9), Ayanochan_34 (A9), Beemo_33 (A9), BogosyJay_32 (A9), Catalina_34 (A9), Conquerage_33 (A9), Darrell_33 (A9), Eidsmoe_33 (A9), Elephantoon_32 (A9), EmyBug_33 (A9), ExplosioNervosa_33 (A9), Fayely_33 (A9), Hanray_32 (A9), Holex_32 (A9), HortumSL17_33 (A9), Jiawan_32 (A9), Lilleskat_31 (A9), LoneWolf_32 (A9), Maminiaina_32 (A9), Myxus_33 (A9), Onglai_32 (A9), PackMan_33 (A9), Phaeder_33 (A9), Phonnegut_33 (A9), Pioneer_33 (A9), Priya_33 (A9), Qobbit_33 (A9), RyeScarlet_34 (A9), Scherzo_33 (A9), Spouty_33 (A9), Tubs_33 (A9), Ugenie5_30 (A9),

Start 28:
• Found in 25 of 443 (5.6%) of genes in pham
• Manual Annotations of this start: 5 of 385
• Called 28.0% of time when present
• Phage (with cluster) where this start called: ANI8_34 (A2), Colin_35 (A2), Kalpine_34 (A2), Trixie_34 (A2), WeiHuaDA_37 (A2), XianYue_31 (A2), Yecey3_32

(A9),

Start 29:
• Found in 12 of 443 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 385
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Acolyte_31 (A2),

Start 30:
• Found in 21 of 443 (4.7%) of genes in pham
• Manual Annotations of this start: 12 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bellris_29 (A9), BobSwaget_34 (A2), Celestialunch_31 (A9), Charm_31 (A9), CogOmlette_29 (A9), DreamTeam1_31 (A9), HippoHollow_32 (A2), Klodlith_31 (A9), LionsBait_32 (A2), Lokk_34 (A2), Malec_32 (A2), MegTheThird_31 (A9), Miko_34 (A2), Minispark_29 (A9), NicoleTera_35 (A2), Rachaly_34 (A2), Rahalelujah_30 (A9), SheaKeira_31 (A9), TipsytheTRex_30 (A2), Toaka_30 (A9), WorldCup_29 (A9),

Start 31:
• Found in 47 of 443 (10.6%) of genes in pham
• Manual Annotations of this start: 37 of 385
• Called 97.9% of time when present
• Phage (with cluster) where this start called: 40AC_34 (A17), AN3_31 (A2), AN9_34 (A2), Adzzy_32 (A2), AnnaL29_35 (A2), ArcherNM_34 (A2), BabyBack_33 (A2), Bradman_30 (A2), C3_29 (A2), Caraxes_30 (A2), Changeling_34 (A2), Che12_33 (A2), D29_31 (A2), D32_34 (A2), DBQu4n_34 (A2), Duplo_34 (A2), EZMoney23_35 (A2), ForesterFrank_33 (A2), GaugeLDP_33 (A2), Heffalump_33 (A2), IronMan_34 (A2), Journey13_29 (A2), Jsquared_30 (A2), Kerberos_34 (A2), Koduck_32 (A2), L5_31 (A2), Loser_35 (A2), MajorMajor_30 (A2), MissWhite_31 (A2), Naji_34 (A2), NothingSpecial_33 (A2), Odin_30 (A2), Ph8s_32 (A2), Pomar16_34 (A2), Prudy_34 (A2), Pukovnik_33 (A2), Quokka_29 (A2), RedRock_35 (A2), Serenity_30 (A2), StarStuff_34 (A2), Superchunk_30 (A2), SwirlSquare_32 (A2), Tomathan_34 (A2), Travvers_34 (A2), VA6_31 (A2), VC3_34 (A2),

Start 32:
• Found in 29 of 443 (6.5%) of genes in pham
• No Manual Annotations of this start.
• Called 6.9% of time when present
• Phage (with cluster) where this start called: EdogawaKiddo_31 (A9), Sachima_31 (A9),

Start 62:
• Found in 171 of 443 (38.6%) of genes in pham
• Manual Annotations of this start: 1 of 385
• Called 0.6% of time when present
• Phage (with cluster) where this start called: Nergal_25 (AG),

Start 64:
• Found in 1 of 443 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 385
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chargerpower_32 (A22),

Summary by clusters:

There are 13 clusters represented in this pham: A14, A22, A11, A10, AG, A21, A19, A18, A3, A2, A4, A9, A17,

Info for manual annotations of cluster A10:
•Start number 26 was manually annotated 11 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 16 was manually annotated 11 times for cluster A11.

Info for manual annotations of cluster A14:
•Start number 9 was manually annotated 1 time for cluster A14.
•Start number 10 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A18:
•Start number 26 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 26 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 1 was manually annotated 10 times for cluster A2.
•Start number 2 was manually annotated 1 time for cluster A2.
•Start number 26 was manually annotated 7 times for cluster A2.
•Start number 28 was manually annotated 4 times for cluster A2.
•Start number 29 was manually annotated 1 time for cluster A2.
•Start number 30 was manually annotated 7 times for cluster A2.
•Start number 31 was manually annotated 37 times for cluster A2.

Info for manual annotations of cluster A22:
•Start number 64 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 22 was manually annotated 1 time for cluster A3.
•Start number 23 was manually annotated 32 times for cluster A3.
•Start number 24 was manually annotated 83 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 26 was manually annotated 142 times for cluster A4.

Info for manual annotations of cluster A9:
•Start number 27 was manually annotated 26 times for cluster A9.
•Start number 28 was manually annotated 1 time for cluster A9.
•Start number 30 was manually annotated 5 times for cluster A9.

Info for manual annotations of cluster AG:
•Start number 62 was manually annotated 1 time for cluster AG.

Gene Information:

Gene: 40AC_34 Start: 24978, Stop: 26762, Start Num: 31
Candidate Starts for 40AC_34:
(Start: 31 @24978 has 37 MA's), (39, 24999), (58, 25098), (60, 25104), (67, 25131), (77, 25167), (83, 25188), (90, 25224), (92, 25236), (94, 25248), (121, 25350), (136, 25371), (160, 25425), (163, 25437), (173, 25503), (194, 25593), (198, 25611), (202, 25635), (225, 25770), (244, 25836), (258, 25875), (273, 25965), (286, 26022), (301, 26088), (312, 26145), (341, 26307), (378, 26445), (383, 26469), (408, 26547), (411, 26559), (432, 26622), (441, 26640), (472, 26745),

Gene: ACFishhook_33 Start: 23442, Stop: 25250, Start Num: 24
Candidate Starts for ACFishhook_33:
(Start: 24 @23442 has 83 MA's), (56, 23577), (74, 23643), (84, 23688), (85, 23691), (121, 23838), (141, 23883), (160, 23913), (194, 24081), (198, 24099), (202, 24123), (234, 24285), (244, 24324), (258, 24363), (273, 24453), (310, 24615), (313, 24636), (327, 24723), (336, 24780), (341, 24795), (357, 24858), (378, 24933), (382, 24954), (411, 25047), (425, 25086), (441, 25128), (471, 25227),

Gene: AN3_31 Start: 22715, Stop: 24571, Start Num: 31
Candidate Starts for AN3_31:
(Start: 28 @22709 has 5 MA's), (Start: 31 @22715 has 37 MA's), (58, 22835), (83, 22925), (94, 22985), (97, 23009), (105, 23036), (138, 23129), (145, 23153), (146, 23159), (166, 23261), (251, 23666), (267, 23735), (302, 23903), (318, 23990), (332, 24086), (367, 24236), (403, 24350), (425, 24419), (432, 24443), (448, 24473), (453, 24488),

Gene: AN9_34 Start: 22703, Stop: 24556, Start Num: 31
Candidate Starts for AN9_34:
(Start: 28 @22697 has 5 MA's), (Start: 31 @22703 has 37 MA's), (58, 22823), (83, 22913), (94, 22973), (97, 22997), (105, 23024), (138, 23117), (145, 23141), (146, 23147), (166, 23249), (251, 23654), (267, 23723), (302, 23891), (318, 23978), (332, 24074), (367, 24221), (403, 24335), (425, 24404), (432, 24428), (448, 24458), (453, 24473),

Gene: ANI8_34 Start: 22697, Stop: 24556, Start Num: 28
Candidate Starts for ANI8_34:
(Start: 28 @22697 has 5 MA's), (Start: 31 @22703 has 37 MA's), (58, 22823), (83, 22913), (94, 22973), (97, 22997), (105, 23024), (138, 23117), (145, 23141), (146, 23147), (166, 23249), (251, 23654), (267, 23723), (302, 23891), (318, 23978), (332, 24074), (367, 24221), (403, 24335), (425, 24404), (432, 24428), (448, 24458), (453, 24473),

Gene: AbbysRanger_31 Start: 22986, Stop: 24845, Start Num: 26
Candidate Starts for AbbysRanger_31:
(18, 22926), (Start: 26 @22986 has 162 MA's), (44, 23052), (53, 23097), (55, 23103), (Start: 62 @23136 has 1 MA's), (67, 23154), (79, 23199), (82, 23205), (83, 23211), (100, 23304), (104, 23319), (132, 23391), (152, 23451), (163, 23502), (164, 23514), (184, 23592), (198, 23661), (216, 23784), (222, 23808), (240, 23889), (250, 23934), (255, 23943), (257, 23946), (280, 24075), (282, 24084), (290, 24126), (296, 24153), (308, 24189), (312, 24216), (316, 24228), (340, 24384), (388, 24558), (390, 24564), (402, 24609), (418, 24660), (419, 24663), (431, 24699), (449, 24735),

Gene: Abdiel_30 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Abdiel_30:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (388, 24526), (390, 24532), (402,

24577), (411, 24610), (418, 24628), (419, 24631), (431, 24667), (449, 24703),

Gene: Achebe_30 Start: 22969, Stop: 24828, Start Num: 26
Candidate Starts for Achebe_30:
(18, 22909), (Start: 26 @22969 has 162 MA's), (44, 23035), (53, 23080), (55, 23086), (Start: 62 @23119 has 1 MA's), (67, 23137), (79, 23182), (82, 23188), (83, 23194), (100, 23287), (104, 23302), (132, 23374), (152, 23434), (163, 23485), (164, 23497), (184, 23575), (198, 23644), (216, 23767), (222, 23791), (240, 23872), (250, 23917), (255, 23926), (257, 23929), (280, 24058), (282, 24067), (290, 24109), (296, 24136), (308, 24172), (312, 24199), (316, 24211), (340, 24367), (388, 24541), (390, 24547), (402, 24592), (418, 24643), (419, 24646), (431, 24682), (449, 24718),

Gene: Acolyte_31 Start: 23339, Stop: 25057, Start Num: 29
Candidate Starts for Acolyte_31:
(Start: 29 @23339 has 1 MA's), (39, 23363), (60, 23468), (84, 23564), (92, 23600), (94, 23612), (98, 23639), (99, 23642), (111, 23687), (122, 23717), (145, 23768), (159, 23822), (201, 24026), (251, 24263), (293, 24461), (318, 24584), (332, 24680), (396, 24908), (406, 24941),

Gene: Adzzy_32 Start: 21442, Stop: 23085, Start Num: 31
Candidate Starts for Adzzy_32:
(Start: 31 @21442 has 37 MA's), (56, 21553), (66, 21589), (92, 21700), (94, 21712), (145, 21880), (146, 21886), (201, 22150), (204, 22174), (210, 22201), (230, 22288), (251, 22372), (253, 22378), (256, 22384), (265, 22414), (277, 22498), (281, 22519), (312, 22672), (320, 22711), (332, 22798), (350, 22870), (371, 22957), (377, 22966), (392, 23014),

Gene: Aglet_33 Start: 23278, Stop: 25035, Start Num: 24
Candidate Starts for Aglet_33:
(Start: 24 @23278 has 83 MA's), (56, 23413), (74, 23479), (84, 23524), (92, 23560), (132, 23692), (143, 23728), (163, 23749), (179, 23806), (192, 23866), (206, 23920), (214, 23980), (241, 24100), (243, 24103), (264, 24172), (267, 24196), (286, 24289), (289, 24310), (301, 24355), (370, 24685), (389, 24754), (408, 24817), (464, 24988),

Gene: AgronaGT15_33 Start: 23185, Stop: 24936, Start Num: 24
Candidate Starts for AgronaGT15_33:
(Start: 24 @23185 has 83 MA's), (56, 23320), (74, 23386), (84, 23431), (92, 23467), (120, 23578), (132, 23599), (143, 23635), (163, 23656), (192, 23773), (219, 23911), (241, 24007), (243, 24010), (264, 24079), (267, 24103), (275, 24148), (286, 24196), (301, 24262), (330, 24433), (332, 24439), (343, 24490), (355, 24535), (364, 24565), (378, 24613), (389, 24655), (393, 24670), (394, 24673), (402, 24697), (434, 24799), (435, 24802), (449, 24826),

Gene: Albee_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Albee_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Alberto7_32 Start: 23262, Stop: 25118, Start Num: 26
Candidate Starts for Alberto7_32:
(Start: 26 @23262 has 162 MA's), (56, 23388), (Start: 62 @23412 has 1 MA's), (89, 23517), (90, 23523), (97, 23571), (100, 23580), (110, 23622), (132, 23667), (137, 23673), (163, 23778), (164, 23790), (184, 23868), (198, 23937), (240, 24165), (246, 24189), (247, 24192), (255, 24219), (257,

24222), (276, 24327), (280, 24348), (282, 24357), (308, 24462), (316, 24501), (323, 24546), (354, 24708), (355, 24714), (388, 24831), (390, 24837), (402, 24882), (418, 24933), (419, 24936), (443, 24999), (449, 25008), (471, 25095),

Gene: Aliter_33 Start: 24305, Stop: 26071, Start Num: 27
Candidate Starts for Aliter_33:
(Start: 27 @24305 has 26 MA's), (32, 24317), (74, 24491), (94, 24581), (107, 24626), (109, 24635), (143, 24713), (161, 24737), (168, 24773), (194, 24902), (198, 24920), (244, 25145), (249, 25166), (258, 25184), (273, 25274), (286, 25331), (312, 25454), (333, 25577), (341, 25616), (355, 25673), (378, 25754), (382, 25775), (383, 25778), (411, 25868), (454, 25979), (472, 26054),

Gene: Alma_33 Start: 24420, Stop: 26186, Start Num: 27
Candidate Starts for Alma_33:
(Start: 27 @24420 has 26 MA's), (74, 24606), (94, 24696), (107, 24741), (109, 24750), (161, 24852), (168, 24888), (194, 25017), (198, 25035), (244, 25260), (249, 25281), (258, 25299), (273, 25389), (286, 25446), (312, 25569), (333, 25692), (336, 25716), (341, 25731), (378, 25869), (382, 25890), (383, 25893), (386, 25899), (411, 25983), (462, 26133), (472, 26169),

Gene: Aneem_31 Start: 23397, Stop: 25388, Start Num: 16
Candidate Starts for Aneem_31:
(Start: 16 @23397 has 11 MA's), (Start: 29 @23508 has 1 MA's), (33, 23517), (47, 23574), (48, 23589), (50, 23607), (52, 23619), (63, 23667), (69, 23685), (70, 23688), (96, 23808), (136, 23922), (139, 23943), (145, 23961), (156, 23994), (188, 24177), (195, 24207), (196, 24210), (229, 24384), (231, 24390), (238, 24414), (239, 24420), (261, 24495), (272, 24558), (283, 24600), (284, 24606), (309, 24729), (318, 24777), (320, 24786), (337, 24903), (339, 24906), (351, 24948), (359, 24990), (369, 25026), (383, 25080), (398, 25131), (400, 25137), (403, 25143), (416, 25185), (451, 25275), (463, 25332), (472, 25371), (476, 25380),

Gene: AnnaL29_35 Start: 25114, Stop: 26892, Start Num: 31
Candidate Starts for AnnaL29_35:
(Start: 31 @25114 has 37 MA's), (56, 25225), (58, 25234), (83, 25321), (90, 25357), (92, 25369), (94, 25381), (141, 25528), (143, 25537), (160, 25558), (163, 25570), (194, 25726), (198, 25744), (221, 25876), (244, 25969), (258, 26008), (268, 26065), (273, 26098), (286, 26155), (297, 26209), (312, 26278), (333, 26401), (341, 26440), (350, 26470), (378, 26575), (382, 26596), (383, 26599), (411, 26689), (441, 26770), (461, 26830),

Gene: Annyong_31 Start: 22961, Stop: 24817, Start Num: 26
Candidate Starts for Annyong_31:
(Start: 26 @22961 has 162 MA's), (56, 23087), (Start: 62 @23111 has 1 MA's), (89, 23216), (90, 23222), (97, 23270), (100, 23279), (110, 23321), (132, 23366), (137, 23372), (163, 23477), (164, 23489), (184, 23567), (198, 23636), (240, 23864), (246, 23888), (247, 23891), (255, 23918), (257, 23921), (276, 24026), (280, 24047), (282, 24056), (308, 24161), (316, 24200), (323, 24245), (355, 24413), (388, 24530), (390, 24536), (402, 24581), (418, 24632), (419, 24635), (443, 24698), (449, 24707), (471, 24794),

Gene: Anubis_35 Start: 23163, Stop: 24920, Start Num: 24
Candidate Starts for Anubis_35:
(Start: 24 @23163 has 83 MA's), (56, 23298), (74, 23364), (84, 23409), (92, 23445), (132, 23577), (143, 23613), (163, 23634), (179, 23691), (192, 23751), (206, 23805), (214, 23865), (241, 23985), (243, 23988), (264, 24057), (267, 24081), (286, 24174), (289, 24195), (301, 24240), (370, 24570), (389, 24639), (408, 24702), (464, 24873),

Gene: ArcherNM_34 Start: 25064, Stop: 26842, Start Num: 31

Candidate Starts for ArcherNM_34:
(Start: 31 @25064 has 37 MA's), (39, 25085), (56, 25175), (58, 25184), (83, 25271), (90, 25307), (92, 25319), (94, 25331), (143, 25487), (160, 25508), (163, 25520), (173, 25586), (194, 25676), (198, 25694), (202, 25718), (228, 25862), (244, 25919), (258, 25958), (268, 26015), (273, 26048), (286, 26105), (297, 26159), (312, 26228), (333, 26351), (336, 26375), (341, 26390), (378, 26525), (382, 26546), (411, 26639), (441, 26720), (461, 26780), (472, 26825),

Gene: Arturo_30 Start: 23069, Stop: 24925, Start Num: 26
Candidate Starts for Arturo_30:
(Start: 26 @23069 has 162 MA's), (56, 23195), (Start: 62 @23219 has 1 MA's), (89, 23324), (90, 23330), (97, 23378), (100, 23387), (110, 23429), (132, 23474), (137, 23480), (163, 23585), (164, 23597), (180, 23660), (184, 23675), (198, 23744), (240, 23972), (246, 23996), (247, 23999), (255, 24026), (257, 24029), (276, 24134), (280, 24155), (282, 24164), (308, 24269), (316, 24308), (323, 24353), (336, 24452), (388, 24638), (390, 24644), (402, 24689), (418, 24740), (419, 24743), (443, 24806), (449, 24815), (471, 24902),

Gene: AugsMagnumOpus_35 Start: 23269, Stop: 25026, Start Num: 24
Candidate Starts for AugsMagnumOpus_35:
(Start: 24 @23269 has 83 MA's), (56, 23404), (74, 23470), (84, 23515), (92, 23551), (132, 23683), (143, 23719), (163, 23740), (179, 23797), (192, 23857), (206, 23911), (214, 23971), (241, 24091), (243, 24094), (264, 24163), (267, 24187), (286, 24280), (289, 24301), (301, 24346), (370, 24676), (389, 24745), (408, 24808), (464, 24979),

Gene: AvatarAhPeg_32 Start: 23239, Stop: 25098, Start Num: 26
Candidate Starts for AvatarAhPeg_32:
(Start: 26 @23239 has 162 MA's), (44, 23305), (Start: 62 @23389 has 1 MA's), (67, 23407), (79, 23452), (90, 23500), (100, 23557), (110, 23599), (137, 23650), (141, 23671), (152, 23704), (163, 23755), (164, 23767), (178, 23821), (184, 23845), (198, 23914), (240, 24142), (247, 24169), (255, 24196), (257, 24199), (276, 24307), (280, 24328), (282, 24337), (296, 24406), (308, 24442), (316, 24481), (325, 24550), (354, 24688), (388, 24811), (390, 24817), (443, 24979), (449, 24988),

Gene: Avle17_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Avle17_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Ayanochan_34 Start: 24410, Stop: 26176, Start Num: 27
Candidate Starts for Ayanochan_34:
(Start: 27 @24410 has 26 MA's), (74, 24596), (94, 24686), (107, 24731), (109, 24740), (143, 24818), (161, 24842), (168, 24878), (194, 25007), (198, 25025), (244, 25250), (249, 25271), (258, 25289), (273, 25379), (286, 25436), (312, 25559), (333, 25682), (341, 25721), (355, 25778), (378, 25859), (382, 25880), (383, 25883), (407, 25958), (411, 25973), (454, 26084), (472, 26159),

Gene: B1_29 Start: 22527, Stop: 24386, Start Num: 23
Candidate Starts for B1_29:
(Start: 23 @22527 has 32 MA's), (55, 22653), (58, 22671), (Start: 62 @22686 has 1 MA's), (74, 22728), (89, 22791), (136, 22944), (137, 22947), (141, 22968), (149, 22995), (165, 23070), (175, 23121), (194, 23208), (202, 23250), (258, 23490), (268, 23547), (273, 23580), (293, 23673), (299, 23697), (320, 23802), (329, 23868), (333, 23883), (375, 24054), (408, 24159), (426, 24213), (441, 24252), (461,

24306), (465, 24333), (471, 24357),

Gene: Baby16_31 Start: 22969, Stop: 24825, Start Num: 26
Candidate Starts for Baby16_31:
(Start: 26 @22969 has 162 MA's), (56, 23095), (Start: 62 @23119 has 1 MA's), (89, 23224), (90, 23230), (97, 23278), (100, 23287), (110, 23329), (132, 23374), (137, 23380), (163, 23485), (164, 23497), (184, 23575), (198, 23644), (240, 23872), (246, 23896), (247, 23899), (255, 23926), (257, 23929), (276, 24034), (282, 24064), (285, 24079), (308, 24169), (316, 24208), (323, 24253), (355, 24421), (388, 24538), (390, 24544), (402, 24589), (418, 24640), (419, 24643), (443, 24706), (449, 24715), (471, 24802),

Gene: BabyBack_33 Start: 24351, Stop: 26132, Start Num: 31
Candidate Starts for BabyBack_33:
(Start: 31 @24351 has 37 MA's), (39, 24372), (56, 24462), (58, 24471), (60, 24477), (92, 24609), (94, 24621), (110, 24696), (163, 24810), (194, 24966), (198, 24984), (202, 25008), (223, 25122), (244, 25209), (258, 25248), (273, 25338), (279, 25359), (297, 25449), (310, 25500), (313, 25521), (336, 25665), (341, 25680), (378, 25815), (382, 25836), (390, 25857), (402, 25896), (407, 25914), (411, 25929), (425, 25968), (441, 26010), (454, 26040), (455, 26052), (471, 26109),

Gene: BabyJohn_30 Start: 23109, Stop: 24968, Start Num: 23
Candidate Starts for BabyJohn_30:
(Start: 23 @23109 has 32 MA's), (58, 23253), (74, 23310), (137, 23529), (140, 23547), (141, 23550), (149, 23577), (164, 23646), (165, 23652), (194, 23790), (198, 23808), (202, 23832), (258, 24072), (273, 24162), (312, 24342), (320, 24384), (329, 24450), (333, 24465), (375, 24636), (383, 24666), (426, 24795), (461, 24888), (465, 24915), (471, 24939), (472, 24945),

Gene: BabyRay_31 Start: 23087, Stop: 24946, Start Num: 23
Candidate Starts for BabyRay_31:
(Start: 23 @23087 has 32 MA's), (58, 23231), (Start: 62 @23246 has 1 MA's), (74, 23288), (89, 23351), (121, 23483), (137, 23507), (141, 23528), (149, 23555), (165, 23630), (194, 23768), (198, 23786), (200, 23789), (202, 23810), (258, 24050), (273, 24140), (293, 24233), (299, 24257), (320, 24362), (329, 24428), (333, 24443), (341, 24482), (375, 24614), (408, 24719), (426, 24773), (441, 24812), (461, 24866), (465, 24893), (471, 24917),

Gene: Bachome_31 Start: 23388, Stop: 25376, Start Num: 16
Candidate Starts for Bachome_31:
(Start: 16 @23388 has 11 MA's), (Start: 29 @23499 has 1 MA's), (33, 23508), (47, 23565), (48, 23580), (50, 23598), (52, 23610), (63, 23658), (69, 23676), (70, 23679), (96, 23799), (136, 23913), (139, 23934), (145, 23952), (156, 23985), (188, 24168), (195, 24198), (196, 24201), (229, 24375), (231, 24381), (238, 24405), (239, 24411), (261, 24486), (272, 24549), (283, 24591), (284, 24597), (309, 24720), (318, 24768), (320, 24777), (337, 24894), (339, 24897), (351, 24939), (359, 24981), (369, 25017), (383, 25071), (451, 25263), (463, 25320), (472, 25359), (476, 25368),

Gene: Backyardigan_31 Start: 22981, Stop: 24840, Start Num: 26
Candidate Starts for Backyardigan_31:
(18, 22921), (Start: 26 @22981 has 162 MA's), (44, 23047), (53, 23092), (55, 23098), (Start: 62 @23131 has 1 MA's), (67, 23149), (79, 23194), (82, 23200), (83, 23206), (100, 23299), (104, 23314), (132, 23386), (152, 23446), (163, 23497), (164, 23509), (184, 23587), (198, 23656), (216, 23779), (222, 23803), (240, 23884), (250, 23929), (255, 23938), (257, 23941), (280, 24070), (282, 24079), (290, 24121), (296, 24148), (308, 24184), (312, 24211), (316, 24223), (340, 24379), (388, 24553), (390, 24559), (402, 24604), (418, 24655), (419, 24658), (431, 24694), (449, 24730),

Gene: Bactobuster_33 Start: 24863, Stop: 26638, Start Num: 26

Candidate Starts for Bactobuster_33:
(21, 24824), (Start: 26 @24863 has 162 MA's), (56, 24974), (58, 24983), (75, 25040), (83, 25067), (100, 25160), (141, 25274), (160, 25304), (187, 25439), (194, 25472), (198, 25490), (202, 25514), (223, 25628), (234, 25676), (244, 25715), (258, 25754), (260, 25766), (268, 25811), (310, 26006), (313, 26027), (328, 26120), (341, 26186), (360, 26258), (378, 26321), (407, 26420), (411, 26435), (441, 26516), (461, 26576), (472, 26621),

Gene: Badger_31 Start: 22970, Stop: 24829, Start Num: 26
Candidate Starts for Badger_31:
(18, 22910), (Start: 26 @22970 has 162 MA's), (44, 23036), (53, 23081), (55, 23087), (Start: 62 @23120 has 1 MA's), (67, 23138), (79, 23183), (82, 23189), (83, 23195), (100, 23288), (104, 23303), (132, 23375), (152, 23435), (163, 23486), (164, 23498), (184, 23576), (198, 23645), (216, 23768), (222, 23792), (240, 23873), (250, 23918), (255, 23927), (257, 23930), (280, 24059), (282, 24068), (290, 24110), (296, 24137), (308, 24173), (312, 24200), (316, 24212), (340, 24368), (388, 24542), (390, 24548), (402, 24593), (418, 24644), (419, 24647), (431, 24683), (449, 24719),

Gene: Baehexic_32 Start: 23237, Stop: 25444, Start Num: 1
Candidate Starts for Baehexic_32:
(Start: 1 @23237 has 10 MA's), (5, 23351), (6, 23360), (7, 23366), (8, 23387), (13, 23423), (19, 23498), (34, 23588), (38, 23600), (80, 23777), (87, 23816), (103, 23912), (165, 24125), (173, 24173), (194, 24263), (201, 24293), (202, 24305), (258, 24545), (273, 24644), (279, 24665), (297, 24755), (299, 24761), (301, 24767), (310, 24806), (313, 24827), (319, 24863), (320, 24866), (329, 24932), (383, 25148), (399, 25196), (420, 25259), (445, 25319), (461, 25367), (472, 25421),

Gene: BangNhom_31 Start: 23274, Stop: 25130, Start Num: 26
Candidate Starts for BangNhom_31:
(Start: 26 @23274 has 162 MA's), (56, 23400), (Start: 62 @23424 has 1 MA's), (89, 23529), (90, 23535), (97, 23583), (110, 23634), (137, 23685), (163, 23790), (164, 23802), (184, 23880), (198, 23949), (224, 24117), (233, 24147), (240, 24177), (246, 24201), (247, 24204), (255, 24231), (257, 24234), (276, 24339), (280, 24360), (282, 24369), (316, 24513), (323, 24558), (354, 24720), (388, 24843), (402, 24894), (443, 25011), (449, 25020), (471, 25107),

Gene: Bartimeaus_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Bartimeaus_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Beauxregard13_33 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for Beauxregard13_33:
(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: Beemo_33 Start: 24411, Stop: 26177, Start Num: 27
Candidate Starts for Beemo_33:
(Start: 27 @24411 has 26 MA's), (32, 24423), (74, 24597), (94, 24687), (107, 24732), (109, 24741), (143, 24819), (161, 24843), (168, 24879), (194, 25008), (198, 25026), (244, 25251), (249, 25272), (258, 25290), (273, 25380), (286, 25437), (312, 25560), (333, 25683), (341, 25722), (355, 25779),

(378, 25860), (382, 25881), (383, 25884), (407, 25959), (411, 25974), (454, 26085), (472, 26160),

Gene: Bellris_29 Start: 22236, Stop: 23978, Start Num: 30
Candidate Starts for Bellris_29:
(Start: 30 @22236 has 12 MA's), (32, 22242), (58, 22359), (67, 22392), (94, 22509), (99, 22539), (115, 22587), (118, 22596), (119, 22599), (157, 22686), (170, 22731), (181, 22758), (197, 22833), (210, 22911), (220, 22977), (248, 23103), (333, 23535), (343, 23580), (376, 23712), (416, 23853), (419, 23865), (433, 23904), (457, 23967),

Gene: BellusTerra_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for BellusTerra_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (320, 24223), (323, 24241), (336, 24340), (388, 24526), (402, 24577), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: BiancaTri92_33 Start: 24557, Stop: 26335, Start Num: 26
Candidate Starts for BiancaTri92_33:
(Start: 26 @24557 has 162 MA's), (56, 24668), (58, 24677), (75, 24737), (83, 24764), (90, 24800), (143, 24980), (160, 25001), (163, 25013), (190, 25148), (194, 25169), (198, 25187), (202, 25211), (221, 25319), (237, 25385), (258, 25451), (268, 25508), (273, 25541), (286, 25598), (329, 25829), (336, 25868), (341, 25883), (378, 26018), (383, 26042), (386, 26048), (407, 26117), (411, 26132), (425, 26171), (441, 26213), (472, 26318),

Gene: Bigflo_33 Start: 23276, Stop: 25033, Start Num: 24
Candidate Starts for Bigflo_33:
(Start: 24 @23276 has 83 MA's), (56, 23411), (74, 23477), (84, 23522), (92, 23558), (132, 23690), (143, 23726), (163, 23747), (179, 23804), (192, 23864), (206, 23918), (214, 23978), (241, 24098), (243, 24101), (264, 24170), (267, 24194), (286, 24287), (289, 24308), (301, 24353), (370, 24683), (389, 24752), (408, 24815), (464, 24986),

Gene: Blackmoor_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Blackmoor_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: BlueBird_32 Start: 22838, Stop: 24697, Start Num: 23
Candidate Starts for BlueBird_32:
(Start: 23 @22838 has 32 MA's), (58, 22982), (Start: 62 @22997 has 1 MA's), (74, 23039), (99, 23162), (112, 23210), (133, 23252), (137, 23258), (141, 23279), (194, 23519), (201, 23549), (209, 23597), (234, 23723), (244, 23762), (258, 23801), (268, 23858), (273, 23891), (310, 24053), (311, 24056), (320, 24113), (329, 24179), (333, 24194), (383, 24395), (425, 24521), (426, 24524), (458, 24605), (461, 24617), (465, 24644), (472, 24674),

Gene: BobSwaget_34 Start: 24339, Stop: 26123, Start Num: 30
Candidate Starts for BobSwaget_34:
(Start: 30 @24339 has 12 MA's), (39, 24363), (56, 24453), (58, 24462), (74, 24519), (173, 24867), (175, 24870), (194, 24957), (198, 24975), (202, 24999), (221, 25107), (244, 25200), (258, 25239),

(273, 25329), (287, 25389), (297, 25440), (310, 25491), (313, 25512), (336, 25656), (341, 25671), (346, 25689), (382, 25827), (390, 25848), (411, 25920), (417, 25938), (425, 25959), (431, 25980), (441, 26001), (461, 26061), (472, 26106),

Gene: BogosyJay_32 Start: 23933, Stop: 25699, Start Num: 27
Candidate Starts for BogosyJay_32:
(Start: 27 @23933 has 26 MA's), (68, 24098), (74, 24119), (90, 24185), (92, 24197), (94, 24209), (107, 24254), (109, 24263), (112, 24272), (141, 24332), (143, 24341), (161, 24365), (168, 24401), (186, 24494), (194, 24530), (198, 24548), (244, 24773), (249, 24794), (258, 24812), (273, 24902), (286, 24959), (293, 24995), (312, 25082), (333, 25205), (336, 25229), (341, 25244), (355, 25301), (382, 25403), (383, 25406), (411, 25496), (454, 25607), (472, 25682),

Gene: Bombshell_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Bombshell_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Bowtie_31 Start: 23397, Stop: 25388, Start Num: 16
Candidate Starts for Bowtie_31:
(Start: 16 @23397 has 11 MA's), (Start: 29 @23508 has 1 MA's), (33, 23517), (47, 23574), (48, 23589), (50, 23607), (52, 23619), (63, 23667), (69, 23685), (70, 23688), (96, 23808), (136, 23922), (139, 23943), (145, 23961), (156, 23994), (188, 24177), (195, 24207), (196, 24210), (229, 24384), (231, 24390), (238, 24414), (239, 24420), (261, 24495), (272, 24558), (283, 24600), (284, 24606), (309, 24729), (318, 24777), (320, 24786), (337, 24903), (339, 24906), (351, 24948), (359, 24990), (369, 25026), (383, 25080), (398, 25131), (400, 25137), (403, 25143), (416, 25185), (451, 25275), (463, 25332), (472, 25371), (476, 25380),

Gene: Bradman_30 Start: 21646, Stop: 23397, Start Num: 31
Candidate Starts for Bradman_30:
(Start: 31 @21646 has 37 MA's), (39, 21667), (58, 21766), (Start: 62 @21781 has 1 MA's), (83, 21856), (94, 21916), (123, 22027), (138, 22060), (145, 22084), (146, 22090), (161, 22162), (173, 22237), (183, 22270), (188, 22300), (251, 22588), (277, 22708), (290, 22777), (332, 23008), (350, 23083), (353, 23095), (354, 23104), (363, 23143), (426, 23338), (435, 23365), (436, 23368), (442, 23380),

Gene: BreSam8_33 Start: 23270, Stop: 25027, Start Num: 24
Candidate Starts for BreSam8_33:
(Start: 24 @23270 has 83 MA's), (56, 23405), (74, 23471), (84, 23516), (92, 23552), (132, 23684), (143, 23720), (163, 23741), (179, 23798), (192, 23858), (206, 23912), (214, 23972), (241, 24092), (243, 24095), (264, 24164), (267, 24188), (286, 24281), (289, 24302), (301, 24347), (370, 24677), (389, 24746), (408, 24809), (464, 24980),

Gene: Broseidon_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Broseidon_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (311, 24172), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Bruiser_30 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Bruiser_30:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: BubbleTrouble_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for BubbleTrouble_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Bugatti_31 Start: 22838, Stop: 24697, Start Num: 23
Candidate Starts for Bugatti_31:
(Start: 23 @22838 has 32 MA's), (58, 22982), (Start: 62 @22997 has 1 MA's), (74, 23039), (99, 23162), (112, 23210), (133, 23252), (137, 23258), (141, 23279), (194, 23519), (201, 23549), (209, 23597), (234, 23723), (244, 23762), (258, 23801), (268, 23858), (273, 23891), (310, 24053), (311, 24056), (320, 24113), (329, 24179), (333, 24194), (383, 24395), (425, 24521), (426, 24524), (458, 24605), (461, 24617), (465, 24644), (472, 24674),

Gene: Bugsy_33 Start: 23267, Stop: 25489, Start Num: 1
Candidate Starts for Bugsy_33:
(Start: 1 @23267 has 10 MA's), (5, 23381), (6, 23390), (7, 23396), (15, 23480), (34, 23618), (42, 23642), (51, 23696), (87, 23846), (103, 23942), (114, 23978), (116, 23987), (194, 24293), (202, 24335), (258, 24575), (273, 24674), (279, 24695), (289, 24752), (299, 24791), (301, 24797), (319, 24893), (320, 24896), (329, 24962), (350, 25046), (368, 25118), (399, 25238), (437, 25349), (458, 25400), (461, 25412),

Gene: Bumblebee11_31 Start: 22972, Stop: 24831, Start Num: 26
Candidate Starts for Bumblebee11_31:
(18, 22912), (Start: 26 @22972 has 162 MA's), (44, 23038), (53, 23083), (55, 23089), (Start: 62 @23122 has 1 MA's), (67, 23140), (79, 23185), (82, 23191), (83, 23197), (100, 23290), (104, 23305), (132, 23377), (152, 23437), (163, 23488), (164, 23500), (184, 23578), (198, 23647), (216, 23770), (222, 23794), (240, 23875), (250, 23920), (255, 23929), (257, 23932), (280, 24061), (282, 24070), (290, 24112), (296, 24139), (308, 24175), (312, 24202), (316, 24214), (340, 24370), (388, 24544), (390, 24550), (402, 24595), (418, 24646), (419, 24649), (431, 24685), (449, 24721),

Gene: Burger_30 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Burger_30:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: BuzzBuzz_32 Start: 23364, Stop: 25115, Start Num: 24
Candidate Starts for BuzzBuzz_32:
(Start: 24 @23364 has 83 MA's), (56, 23499), (74, 23565), (84, 23610), (92, 23646), (120, 23757), (132, 23778), (143, 23814), (163, 23835), (192, 23952), (219, 24090), (241, 24186), (243, 24189), (264, 24258), (267, 24282), (275, 24327), (286, 24375), (301, 24441), (330, 24612), (332, 24618), (343, 24669), (355, 24714), (364, 24744), (378, 24792), (389, 24834), (393, 24849), (394, 24852), (402, 24876), (434, 24978), (435, 24981), (449, 25005),

Gene: Bxz2_32 Start: 23371, Stop: 25122, Start Num: 24
Candidate Starts for Bxz2_32:
(Start: 24 @23371 has 83 MA's), (56, 23506), (74, 23572), (84, 23617), (92, 23653), (120, 23764), (132, 23785), (143, 23821), (163, 23842), (192, 23959), (219, 24097), (241, 24193), (243, 24196), (264, 24265), (267, 24289), (275, 24334), (286, 24382), (301, 24448), (330, 24619), (332, 24625), (343, 24676), (355, 24721), (364, 24751), (378, 24799), (389, 24841), (393, 24856), (394, 24859), (402, 24883), (434, 24985), (435, 24988), (449, 25012),

Gene: C3_29 Start: 22703, Stop: 24556, Start Num: 31
Candidate Starts for C3_29:
(Start: 28 @22697 has 5 MA's), (Start: 31 @22703 has 37 MA's), (58, 22823), (83, 22913), (94, 22973), (97, 22997), (105, 23024), (138, 23117), (145, 23141), (146, 23147), (166, 23249), (251, 23654), (267, 23723), (302, 23891), (318, 23978), (332, 24074), (367, 24221), (403, 24335), (425, 24404), (432, 24428), (448, 24458), (453, 24473),

Gene: Caelakin_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Caelakin_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Calvinny_34 Start: 23361, Stop: 25169, Start Num: 24
Candidate Starts for Calvinny_34:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (112, 23733), (121, 23757), (141, 23802), (160, 23832), (194, 24000), (198, 24018), (202, 24042), (234, 24204), (244, 24243), (258, 24282), (273, 24372), (310, 24534), (313, 24555), (327, 24642), (336, 24699), (341, 24714), (357, 24777), (378, 24852), (382, 24873), (411, 24966), (425, 25005), (441, 25047), (471, 25146),

Gene: Camperdownii_30 Start: 22579, Stop: 24435, Start Num: 26
Candidate Starts for Camperdownii_30:
(Start: 26 @22579 has 162 MA's), (56, 22705), (Start: 62 @22729 has 1 MA's), (89, 22834), (90, 22840), (97, 22888), (110, 22939), (137, 22990), (163, 23095), (164, 23107), (184, 23185), (198, 23254), (224, 23422), (233, 23452), (240, 23482), (247, 23509), (255, 23536), (257, 23539), (276, 23644), (280, 23665), (282, 23674), (308, 23779), (316, 23818), (320, 23845), (323, 23863), (324, 23866), (340, 23974), (355, 24031), (388, 24148), (390, 24154), (443, 24316), (449, 24325),

Gene: Caraxes_30 Start: 21397, Stop: 22950, Start Num: 31
Candidate Starts for Caraxes_30:
(Start: 28 @21391 has 5 MA's), (Start: 31 @21397 has 37 MA's), (58, 21517), (67, 21550), (68, 21553), (75, 21580), (95, 21667), (138, 21754), (164, 21856), (277, 22384), (278, 22390), (284, 22420), (290, 22453), (293, 22465), (312, 22558), (318, 22588), (332, 22684), (350, 22756), (366, 22822), (370,

22834), (385, 22879),

Gene: Catalina_34 Start: 24377, Stop: 26143, Start Num: 27
Candidate Starts for Catalina_34:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (411, 25940), (454, 26051), (472, 26126),

Gene: Caviar_32 Start: 23373, Stop: 25232, Start Num: 23
Candidate Starts for Caviar_32:
(Start: 23 @23373 has 32 MA's), (58, 23517), (63, 23535), (74, 23574), (79, 23595), (89, 23637), (92, 23655), (141, 23814), (149, 23841), (171, 23946), (175, 23967), (194, 24054), (202, 24096), (258, 24336), (273, 24426), (286, 24483), (320, 24648), (328, 24702), (329, 24714), (333, 24729), (365, 24858), (368, 24870), (383, 24930), (388, 24942), (403, 24987), (408, 25005), (461, 25152), (465, 25179), (472, 25209),

Gene: Celestialunch_31 Start: 22321, Stop: 24066, Start Num: 30
Candidate Starts for Celestialunch_31:
(Start: 30 @22321 has 12 MA's), (67, 22477), (88, 22558), (99, 22624), (115, 22672), (124, 22696), (144, 22741), (157, 22771), (189, 22885), (220, 23062), (271, 23293), (279, 23332), (305, 23446), (329, 23605), (333, 23620), (379, 23806), (387, 23836), (409, 23917), (419, 23950), (450, 24022), (457, 24052), (459, 24055),

Gene: Centaur_33 Start: 23215, Stop: 25422, Start Num: 1
Candidate Starts for Centaur_33:
(Start: 1 @23215 has 10 MA's), (5, 23329), (6, 23338), (7, 23344), (8, 23365), (13, 23401), (19, 23476), (34, 23566), (38, 23578), (80, 23755), (87, 23794), (103, 23890), (165, 24103), (173, 24151), (194, 24241), (201, 24271), (202, 24283), (258, 24523), (273, 24622), (279, 24643), (297, 24733), (299, 24739), (301, 24745), (310, 24784), (313, 24805), (319, 24841), (320, 24844), (329, 24910), (383, 25126), (399, 25174), (420, 25237), (445, 25297), (461, 25345), (472, 25399),

Gene: CentreCat_31 Start: 22961, Stop: 24817, Start Num: 26
Candidate Starts for CentreCat_31:
(Start: 26 @22961 has 162 MA's), (56, 23087), (Start: 62 @23111 has 1 MA's), (89, 23216), (90, 23222), (97, 23270), (100, 23279), (110, 23321), (132, 23366), (137, 23372), (163, 23477), (164, 23489), (184, 23567), (198, 23636), (240, 23864), (246, 23888), (247, 23891), (255, 23918), (257, 23921), (276, 24026), (282, 24056), (285, 24071), (308, 24161), (316, 24200), (323, 24245), (355, 24413), (388, 24530), (390, 24536), (402, 24581), (418, 24632), (419, 24635), (443, 24698), (449, 24707), (471, 24794),

Gene: Cerulean_32 Start: 23275, Stop: 25131, Start Num: 26
Candidate Starts for Cerulean_32:
(Start: 26 @23275 has 162 MA's), (56, 23401), (Start: 62 @23425 has 1 MA's), (89, 23530), (90, 23536), (97, 23584), (110, 23635), (137, 23686), (163, 23791), (164, 23803), (184, 23881), (198, 23950), (224, 24118), (233, 24148), (240, 24178), (246, 24202), (247, 24205), (255, 24232), (257, 24235), (276, 24340), (280, 24361), (282, 24370), (316, 24514), (323, 24559), (354, 24721), (388, 24844), (402, 24895), (443, 25012), (449, 25021), (471, 25108),

Gene: ChampagnePapi_32 Start: 23274, Stop: 25130, Start Num: 26
Candidate Starts for ChampagnePapi_32:
(Start: 26 @23274 has 162 MA's), (56, 23400), (Start: 62 @23424 has 1 MA's), (89, 23529), (90, 23535), (97, 23583), (110, 23634), (137, 23685), (163, 23790), (164, 23802), (184, 23880), (198,

23949), (240, 24177), (246, 24201), (247, 24204), (255, 24231), (257, 24234), (276, 24339), (282, 24369), (285, 24384), (308, 24474), (316, 24513), (323, 24558), (355, 24726), (388, 24843), (402, 24894), (443, 25011), (449, 25020), (471, 25107),

Gene: Changeling_34 Start: 25115, Stop: 26890, Start Num: 31
Candidate Starts for Changeling_34:
(17, 25016), (Start: 31 @25115 has 37 MA's), (56, 25226), (58, 25235), (83, 25319), (90, 25355), (92, 25367), (94, 25379), (121, 25481), (137, 25505), (160, 25556), (163, 25568), (190, 25703), (194, 25724), (198, 25742), (202, 25766), (244, 25967), (258, 26006), (268, 26063), (273, 26096), (286, 26153), (297, 26207), (312, 26276), (329, 26384), (333, 26399), (341, 26438), (382, 26594), (411, 26687), (441, 26768), (461, 26828), (472, 26873),

Gene: Chaph_31 Start: 22969, Stop: 24825, Start Num: 26
Candidate Starts for Chaph_31:
(Start: 26 @22969 has 162 MA's), (56, 23095), (Start: 62 @23119 has 1 MA's), (89, 23224), (90, 23230), (97, 23278), (100, 23287), (110, 23329), (132, 23374), (137, 23380), (163, 23485), (164, 23497), (184, 23575), (198, 23644), (240, 23872), (246, 23896), (247, 23899), (255, 23926), (257, 23929), (276, 24034), (282, 24064), (285, 24079), (308, 24169), (316, 24208), (323, 24253), (355, 24421), (388, 24538), (390, 24544), (402, 24589), (418, 24640), (419, 24643), (443, 24706), (449, 24715), (471, 24802),

Gene: Chargerpower_32 Start: 22051, Stop: 23787, Start Num: 64
Candidate Starts for Chargerpower_32:
(Start: 64 @22051 has 1 MA's), (102, 22222), (108, 22243), (113, 22255), (147, 22333), (177, 22432), (199, 22492), (228, 22666), (248, 22750), (279, 22894), (294, 22978), (329, 23167), (395, 23404), (422, 23494), (427, 23509), (468, 23647), (470, 23656), (475, 23671), (477, 23704),

Gene: Charm_31 Start: 22329, Stop: 24071, Start Num: 30
Candidate Starts for Charm_31:
(Start: 30 @22329 has 12 MA's), (32, 22335), (67, 22485), (75, 22515), (88, 22566), (99, 22632), (115, 22680), (124, 22704), (157, 22779), (189, 22893), (210, 23004), (220, 23070), (245, 23184), (257, 23220), (271, 23301), (279, 23340), (305, 23454), (307, 23466), (329, 23613), (333, 23628), (343, 23673), (409, 23925), (419, 23958), (421, 23961), (433, 23997), (457, 24060),

Gene: Che12_33 Start: 21672, Stop: 23324, Start Num: 31
Candidate Starts for Che12_33:
(Start: 31 @21672 has 37 MA's), (56, 21783), (66, 21819), (90, 21918), (94, 21942), (145, 22110), (146, 22116), (254, 22626), (277, 22737), (293, 22818), (312, 22911), (318, 22941), (332, 23037), (350, 23109), (371, 23196), (378, 23208),

Gene: Chiqui_30 Start: 23109, Stop: 24977, Start Num: 23
Candidate Starts for Chiqui_30:
(Start: 23 @23109 has 32 MA's), (58, 23253), (74, 23310), (137, 23538), (140, 23556), (141, 23559), (149, 23586), (164, 23655), (165, 23661), (194, 23799), (198, 23817), (202, 23841), (258, 24081), (273, 24171), (312, 24351), (320, 24393), (329, 24459), (333, 24474), (375, 24645), (383, 24675), (426, 24804), (461, 24897), (465, 24924), (471, 24948), (472, 24954),

Gene: Chupacabra_32 Start: 23269, Stop: 25104, Start Num: 26
Candidate Starts for Chupacabra_32:
(Start: 26 @23269 has 162 MA's), (36, 23302), (41, 23317), (112, 23629), (121, 23653), (125, 23671), (126, 23674), (127, 23677), (128, 23698), (130, 23725), (194, 23938), (198, 23956), (202, 23980), (225, 24115), (228, 24124), (258, 24220), (268, 24277), (273, 24310), (297, 24421), (312, 24490), (329, 24598), (333, 24613), (341, 24652), (343, 24658), (360, 24724), (378, 24787), (382, 24808),

(383, 24811), (386, 24817), (390, 24829), (407, 24886), (411, 24901), (414, 24910), (441, 24982), (461, 25042), (472, 25087), (473, 25090),

Gene: Cici_31 Start: 22966, Stop: 24825, Start Num: 26
Candidate Starts for Cici_31:
(18, 22906), (Start: 26 @22966 has 162 MA's), (44, 23032), (53, 23077), (55, 23083), (Start: 62 @23116 has 1 MA's), (67, 23134), (79, 23179), (82, 23185), (83, 23191), (100, 23284), (104, 23299), (132, 23371), (152, 23431), (163, 23482), (164, 23494), (184, 23572), (198, 23641), (216, 23764), (222, 23788), (240, 23869), (250, 23914), (255, 23923), (257, 23926), (280, 24055), (282, 24064), (290, 24106), (296, 24133), (308, 24169), (312, 24196), (316, 24208), (340, 24364), (388, 24538), (390, 24544), (402, 24589), (418, 24640), (419, 24643), (431, 24679), (449, 24715),

Gene: Cindaradix_30 Start: 22690, Stop: 24546, Start Num: 26
Candidate Starts for Cindaradix_30:
(Start: 26 @22690 has 162 MA's), (Start: 62 @22840 has 1 MA's), (67, 22858), (71, 22870), (79, 22903), (83, 22915), (90, 22951), (100, 23008), (104, 23023), (152, 23155), (163, 23206), (164, 23218), (184, 23296), (187, 23317), (198, 23365), (240, 23593), (255, 23647), (257, 23650), (276, 23755), (280, 23776), (282, 23785), (308, 23890), (340, 24085), (355, 24142), (388, 24259), (390, 24265), (449, 24436),

Gene: Cintron_31 Start: 23005, Stop: 24864, Start Num: 26
Candidate Starts for Cintron_31:
(Start: 26 @23005 has 162 MA's), (56, 23131), (Start: 62 @23155 has 1 MA's), (89, 23260), (90, 23266), (97, 23314), (100, 23323), (110, 23365), (132, 23410), (137, 23416), (163, 23521), (164, 23533), (184, 23611), (198, 23680), (224, 23848), (240, 23908), (246, 23932), (247, 23935), (255, 23962), (257, 23965), (276, 24070), (282, 24100), (285, 24115), (308, 24205), (316, 24244), (320, 24271), (323, 24289), (390, 24580), (411, 24658), (415, 24670), (418, 24676), (431, 24715), (443, 24742), (447, 24748), (471, 24841),

Gene: Citius_31 Start: 22975, Stop: 24831, Start Num: 26
Candidate Starts for Citius_31:
(Start: 26 @22975 has 162 MA's), (56, 23101), (Start: 62 @23125 has 1 MA's), (89, 23230), (90, 23236), (97, 23284), (110, 23335), (132, 23380), (137, 23386), (163, 23491), (164, 23503), (184, 23581), (198, 23650), (240, 23878), (246, 23902), (247, 23905), (255, 23932), (257, 23935), (276, 24040), (282, 24070), (285, 24085), (308, 24175), (316, 24214), (323, 24259), (355, 24427), (388, 24544), (390, 24550), (402, 24595), (418, 24646), (419, 24649), (443, 24712), (449, 24721), (471, 24808),

Gene: Clammy_31 Start: 22838, Stop: 24697, Start Num: 23
Candidate Starts for Clammy_31:
(Start: 23 @22838 has 32 MA's), (58, 22982), (Start: 62 @22997 has 1 MA's), (74, 23039), (99, 23162), (112, 23210), (133, 23252), (137, 23258), (141, 23279), (194, 23519), (201, 23549), (209, 23597), (234, 23723), (244, 23762), (258, 23801), (268, 23858), (273, 23891), (310, 24053), (311, 24056), (320, 24113), (329, 24179), (333, 24194), (383, 24395), (425, 24521), (426, 24524), (458, 24605), (461, 24617), (465, 24644), (472, 24674),

Gene: Clarenza_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Clarenza_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449,

24703), (471, 24790),

Gene: ClownCar_34 Start: 23353, Stop: 25161, Start Num: 24
Candidate Starts for ClownCar_34:
(Start: 24 @23353 has 83 MA's), (56, 23488), (74, 23554), (84, 23599), (92, 23635), (112, 23725), (121, 23749), (141, 23794), (160, 23824), (194, 23992), (198, 24010), (202, 24034), (234, 24196), (244, 24235), (258, 24274), (273, 24364), (310, 24526), (313, 24547), (327, 24634), (336, 24691), (341, 24706), (357, 24769), (378, 24844), (382, 24865), (411, 24958), (425, 24997), (441, 25039), (471, 25138),

Gene: Cocoaberry_31 Start: 22964, Stop: 24820, Start Num: 26
Candidate Starts for Cocoaberry_31:
(Start: 26 @22964 has 162 MA's), (56, 23090), (Start: 62 @23114 has 1 MA's), (89, 23219), (90, 23225), (97, 23273), (100, 23282), (110, 23324), (132, 23369), (137, 23375), (163, 23480), (164, 23492), (184, 23570), (198, 23639), (240, 23867), (246, 23891), (247, 23894), (255, 23921), (257, 23924), (276, 24029), (280, 24050), (282, 24059), (308, 24164), (316, 24203), (323, 24248), (354, 24410), (355, 24416), (388, 24533), (390, 24539), (402, 24584), (418, 24635), (419, 24638), (443, 24701), (449, 24710), (471, 24797),

Gene: CogOmlette_29 Start: 22236, Stop: 23978, Start Num: 30
Candidate Starts for CogOmlette_29:
(Start: 30 @22236 has 12 MA's), (32, 22242), (58, 22359), (67, 22392), (94, 22509), (99, 22539), (115, 22587), (118, 22596), (119, 22599), (157, 22686), (170, 22731), (181, 22758), (197, 22833), (210, 22911), (220, 22977), (248, 23103), (333, 23535), (343, 23580), (376, 23712), (416, 23853), (419, 23865), (433, 23904), (457, 23967),

Gene: Colbster_33 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for Colbster_33:
(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: Colin_35 Start: 24479, Stop: 26257, Start Num: 28
Candidate Starts for Colin_35:
(Start: 28 @24479 has 5 MA's), (56, 24593), (58, 24602), (92, 24734), (173, 25001), (194, 25091), (198, 25109), (202, 25133), (244, 25334), (258, 25373), (273, 25463), (286, 25520), (297, 25574), (312, 25643), (332, 25760), (341, 25805), (346, 25823), (378, 25940), (382, 25961), (390, 25982), (411, 26054), (441, 26135), (454, 26165), (461, 26195), (472, 26240),

Gene: Commander_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Commander_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Connomayer_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Connomayer_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164,

23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Conquerage_33 Start: 24407, Stop: 26173, Start Num: 27
Candidate Starts for Conquerage_33:
(Start: 27 @24407 has 26 MA's), (74, 24593), (94, 24683), (107, 24728), (109, 24737), (143, 24815), (161, 24839), (168, 24875), (194, 25004), (198, 25022), (244, 25247), (249, 25268), (258, 25286), (273, 25376), (286, 25433), (312, 25556), (333, 25679), (341, 25718), (355, 25775), (378, 25856), (382, 25877), (383, 25880), (411, 25970), (454, 26081), (472, 26156),

Gene: Croquant_34 Start: 23275, Stop: 25032, Start Num: 24
Candidate Starts for Croquant_34:
(Start: 24 @23275 has 83 MA's), (56, 23410), (74, 23476), (84, 23521), (92, 23557), (132, 23689), (143, 23725), (163, 23746), (179, 23803), (192, 23863), (206, 23917), (214, 23977), (241, 24097), (243, 24100), (264, 24169), (267, 24193), (286, 24286), (289, 24307), (301, 24352), (370, 24682), (389, 24751), (408, 24814), (464, 24985),

Gene: Cullens_33 Start: 23276, Stop: 25033, Start Num: 24
Candidate Starts for Cullens_33:
(Start: 24 @23276 has 83 MA's), (56, 23411), (74, 23477), (84, 23522), (92, 23558), (132, 23690), (143, 23726), (163, 23747), (179, 23804), (192, 23864), (206, 23918), (214, 23978), (241, 24098), (243, 24101), (264, 24170), (267, 24194), (286, 24287), (289, 24308), (301, 24353), (370, 24683), (389, 24752), (408, 24815), (464, 24986),

Gene: D29_31 Start: 22559, Stop: 24412, Start Num: 31
Candidate Starts for D29_31:
(Start: 28 @22553 has 5 MA's), (Start: 31 @22559 has 37 MA's), (58, 22679), (83, 22769), (94, 22829), (105, 22880), (138, 22973), (145, 22997), (146, 23003), (251, 23510), (267, 23579), (284, 23666), (302, 23747), (403, 24191), (407, 24206), (425, 24260), (432, 24284), (436, 24293), (453, 24329),

Gene: D32_34 Start: 22559, Stop: 24412, Start Num: 31
Candidate Starts for D32_34:
(Start: 28 @22553 has 5 MA's), (Start: 31 @22559 has 37 MA's), (58, 22679), (83, 22769), (94, 22829), (105, 22880), (138, 22973), (145, 22997), (146, 23003), (251, 23510), (267, 23579), (284, 23666), (302, 23747), (403, 24191), (407, 24206), (425, 24260), (432, 24284), (436, 24293), (453, 24329),

Gene: DBQu4n_34 Start: 22559, Stop: 24412, Start Num: 31
Candidate Starts for DBQu4n_34:
(Start: 28 @22553 has 5 MA's), (Start: 31 @22559 has 37 MA's), (58, 22679), (83, 22769), (94, 22829), (105, 22880), (138, 22973), (145, 22997), (146, 23003), (251, 23510), (267, 23579), (284, 23666), (302, 23747), (315, 23813), (332, 23930), (390, 24149), (393, 24161), (403, 24191), (425, 24260), (432, 24284), (436, 24293), (453, 24329),

Gene: DaHudson_33 Start: 23269, Stop: 25026, Start Num: 24
Candidate Starts for DaHudson_33:
(Start: 24 @23269 has 83 MA's), (56, 23404), (74, 23470), (84, 23515), (92, 23551), (132, 23683), (143, 23719), (163, 23740), (179, 23797), (192, 23857), (206, 23911), (214, 23971), (241, 24091), (243, 24094), (264, 24163), (267, 24187), (286, 24280), (289, 24301), (301, 24346), (370, 24676), (389, 24745), (408, 24808), (464, 24979),

Gene: Daishi_32 Start: 22205, Stop: 23956, Start Num: 24

Candidate Starts for Daishi_32:
(Start: 24 @22205 has 83 MA's), (56, 22340), (74, 22406), (84, 22451), (92, 22487), (120, 22598), (132, 22619), (143, 22655), (163, 22676), (192, 22793), (219, 22931), (241, 23027), (243, 23030), (264, 23099), (267, 23123), (275, 23168), (286, 23216), (301, 23282), (330, 23453), (332, 23459), (343, 23510), (355, 23555), (364, 23585), (378, 23633), (389, 23675), (393, 23690), (394, 23693), (402, 23717), (434, 23819), (435, 23822), (449, 23846),

Gene: Darrell_33 Start: 24371, Stop: 26137, Start Num: 27
Candidate Starts for Darrell_33:
(Start: 27 @24371 has 26 MA's), (74, 24557), (90, 24623), (94, 24647), (107, 24692), (109, 24701), (141, 24770), (143, 24779), (168, 24839), (175, 24881), (187, 24935), (194, 24968), (198, 24986), (202, 25010), (203, 25016), (237, 25184), (244, 25211), (258, 25250), (273, 25340), (286, 25397), (312, 25520), (319, 25559), (333, 25643), (341, 25682), (378, 25820), (382, 25841), (383, 25844), (388, 25856), (402, 25901), (441, 26015), (454, 26045), (472, 26120),

Gene: Datway_31 Start: 22981, Stop: 24840, Start Num: 26
Candidate Starts for Datway_31:
(18, 22921), (Start: 26 @22981 has 162 MA's), (44, 23047), (53, 23092), (55, 23098), (Start: 62 @23131 has 1 MA's), (67, 23149), (79, 23194), (82, 23200), (83, 23206), (100, 23299), (104, 23314), (132, 23386), (152, 23446), (163, 23497), (164, 23509), (184, 23587), (198, 23656), (216, 23779), (222, 23803), (240, 23884), (250, 23929), (255, 23938), (257, 23941), (280, 24070), (282, 24079), (290, 24121), (296, 24148), (308, 24184), (312, 24211), (316, 24223), (340, 24379), (388, 24553), (390, 24559), (402, 24604), (418, 24655), (419, 24658), (431, 24694), (449, 24730),

Gene: Deano_31 Start: 22968, Stop: 24824, Start Num: 26
Candidate Starts for Deano_31:
(Start: 26 @22968 has 162 MA's), (56, 23094), (Start: 62 @23118 has 1 MA's), (89, 23223), (90, 23229), (97, 23277), (100, 23286), (110, 23328), (132, 23373), (137, 23379), (163, 23484), (164, 23496), (184, 23574), (198, 23643), (240, 23871), (246, 23895), (247, 23898), (255, 23925), (257, 23928), (276, 24033), (282, 24063), (285, 24078), (308, 24168), (316, 24207), (323, 24252), (355, 24420), (388, 24537), (390, 24543), (402, 24588), (418, 24639), (419, 24642), (443, 24705), (449, 24714), (471, 24801),

Gene: Dhanush_31 Start: 22963, Stop: 24819, Start Num: 26
Candidate Starts for Dhanush_31:
(Start: 26 @22963 has 162 MA's), (56, 23089), (Start: 62 @23113 has 1 MA's), (89, 23218), (90, 23224), (97, 23272), (100, 23281), (110, 23323), (132, 23368), (137, 23374), (163, 23479), (164, 23491), (184, 23569), (198, 23638), (240, 23866), (246, 23890), (247, 23893), (255, 23920), (257, 23923), (276, 24028), (282, 24058), (285, 24073), (308, 24163), (316, 24202), (323, 24247), (355, 24415), (388, 24532), (390, 24538), (402, 24583), (418, 24634), (419, 24637), (443, 24700), (449, 24709), (471, 24796),

Gene: Dieselweasel_33 Start: 23278, Stop: 25035, Start Num: 24
Candidate Starts for Dieselweasel_33:
(Start: 24 @23278 has 83 MA's), (56, 23413), (74, 23479), (84, 23524), (92, 23560), (132, 23692), (143, 23728), (163, 23749), (179, 23806), (192, 23866), (206, 23920), (214, 23980), (241, 24100), (243, 24103), (264, 24172), (267, 24196), (286, 24289), (289, 24310), (301, 24355), (370, 24685), (389, 24754), (408, 24817), (464, 24988),

Gene: DirtyDunning_31 Start: 22953, Stop: 24809, Start Num: 26
Candidate Starts for DirtyDunning_31:
(Start: 26 @22953 has 162 MA's), (56, 23079), (Start: 62 @23103 has 1 MA's), (89, 23208), (90, 23214), (97, 23262), (100, 23271), (110, 23313), (132, 23358), (137, 23364), (163, 23469), (164,

23481), (180, 23544), (184, 23559), (198, 23628), (224, 23796), (240, 23856), (247, 23883), (255, 23910), (257, 23913), (276, 24018), (280, 24039), (282, 24048), (308, 24153), (323, 24237), (336, 24336), (388, 24522), (390, 24528), (402, 24573), (418, 24624), (419, 24627), (443, 24690), (449, 24699), (471, 24786),

Gene: DontArgue_31 Start: 21656, Stop: 23866, Start Num: 26
Candidate Starts for DontArgue_31:
(Start: 26 @21656 has 162 MA's), (36, 21689), (73, 21839), (100, 21971), (121, 22040), (127, 22064), (128, 22085), (129, 22094), (131, 22118), (134, 22178), (135, 22241), (142, 22331), (158, 22466), (165, 22562), (171, 22592), (194, 22700), (197, 22709), (202, 22742), (205, 22751), (244, 22943), (249, 22964), (258, 22982), (268, 23039), (273, 23072), (286, 23129), (299, 23189), (310, 23234), (313, 23255), (314, 23258), (318, 23282), (328, 23348), (329, 23360), (336, 23399), (360, 23486), (383, 23573), (402, 23630), (407, 23648), (411, 23663), (425, 23702),

Gene: DreamTeam1_31 Start: 22328, Stop: 23986, Start Num: 30
Candidate Starts for DreamTeam1_31:
(Start: 30 @22328 has 12 MA's), (32, 22334), (67, 22484), (75, 22514), (88, 22565), (99, 22631), (115, 22679), (124, 22703), (157, 22778), (189, 22892), (245, 23183), (257, 23219), (279, 23339), (305, 23453), (329, 23612), (333, 23627), (345, 23681), (419, 23870),

Gene: DropBear_31 Start: 22899, Stop: 24758, Start Num: 23
Candidate Starts for DropBear_31:
(Start: 23 @22899 has 32 MA's), (55, 23025), (56, 23034), (74, 23100), (79, 23121), (89, 23163), (137, 23319), (149, 23367), (164, 23436), (165, 23442), (171, 23472), (194, 23580), (198, 23598), (202, 23622), (258, 23862), (273, 23952), (299, 24069), (320, 24174), (329, 24240), (333, 24255), (375, 24426), (408, 24531), (426, 24585), (441, 24624), (461, 24678), (465, 24705), (471, 24729),

Gene: Druantia_31 Start: 22961, Stop: 24817, Start Num: 26
Candidate Starts for Druantia_31:
(Start: 26 @22961 has 162 MA's), (56, 23087), (Start: 62 @23111 has 1 MA's), (89, 23216), (90, 23222), (97, 23270), (100, 23279), (110, 23321), (132, 23366), (137, 23372), (163, 23477), (164, 23489), (184, 23567), (198, 23636), (240, 23864), (246, 23888), (247, 23891), (255, 23918), (257, 23921), (276, 24026), (282, 24056), (285, 24071), (308, 24161), (316, 24200), (323, 24245), (355, 24413), (388, 24530), (390, 24536), (402, 24581), (418, 24632), (419, 24635), (443, 24698), (449, 24707), (471, 24794),

Gene: Duplo_34 Start: 22597, Stop: 24450, Start Num: 31
Candidate Starts for Duplo_34:
(Start: 28 @22591 has 5 MA's), (Start: 31 @22597 has 37 MA's), (58, 22717), (83, 22807), (94, 22867), (105, 22918), (138, 23011), (145, 23035), (146, 23041), (251, 23548), (267, 23617), (284, 23704), (302, 23785), (332, 23968), (390, 24187), (393, 24199), (403, 24229), (425, 24298), (432, 24322), (436, 24331), (453, 24367),

Gene: DustyMartin_37 Start: 23534, Stop: 25366, Start Num: 26
Candidate Starts for DustyMartin_37:
(Start: 26 @23534 has 162 MA's), (36, 23567), (73, 23717), (79, 23744), (121, 23918), (126, 23939), (127, 23942), (194, 24203), (198, 24221), (258, 24482), (268, 24539), (273, 24572), (297, 24683), (312, 24752), (328, 24848), (329, 24860), (333, 24875), (336, 24899), (341, 24914), (343, 24920), (350, 24944), (360, 24986), (373, 25031), (378, 25049), (383, 25073), (407, 25148), (411, 25163), (414, 25172), (425, 25202), (441, 25244), (472, 25349), (473, 25352),

Gene: EZMoney23_35 Start: 24766, Stop: 26544, Start Num: 31
Candidate Starts for EZMoney23_35:

(Start: 31 @24766 has 37 MA's), (39, 24787), (56, 24877), (58, 24886), (83, 24970), (94, 25030), (143, 25186), (173, 25285), (194, 25375), (198, 25393), (202, 25417), (244, 25618), (258, 25657), (273, 25747), (286, 25804), (333, 26050), (341, 26089), (355, 26146), (378, 26227), (382, 26248), (411, 26341), (441, 26422),

Gene: Eagle_30 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Eagle_30:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (224, 23803), (233, 23833), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (316, 24199), (323, 24244), (354, 24406), (388, 24529), (402, 24580), (443, 24697), (449, 24706), (471, 24793),

Gene: Eaglepride_34 Start: 23450, Stop: 25285, Start Num: 26
Candidate Starts for Eaglepride_34:
(Start: 26 @23450 has 162 MA's), (36, 23483), (37, 23486), (79, 23660), (92, 23720), (127, 23858), (128, 23879), (130, 23906), (165, 23981), (167, 23987), (175, 24032), (191, 24104), (194, 24119), (198, 24137), (249, 24383), (258, 24401), (268, 24458), (273, 24491), (279, 24512), (286, 24548), (297, 24602), (310, 24653), (313, 24674), (328, 24767), (333, 24794), (336, 24818), (341, 24833), (343, 24839), (378, 24968), (382, 24989), (383, 24992), (407, 25067), (411, 25082), (414, 25091), (425, 25121), (441, 25163), (454, 25193), (461, 25223), (472, 25268),

Gene: Eapen_31 Start: 22959, Stop: 24815, Start Num: 26
Candidate Starts for Eapen_31:
(Start: 26 @22959 has 162 MA's), (56, 23085), (Start: 62 @23109 has 1 MA's), (89, 23214), (90, 23220), (97, 23268), (110, 23319), (132, 23364), (137, 23370), (163, 23475), (164, 23487), (184, 23565), (198, 23634), (240, 23862), (246, 23886), (247, 23889), (255, 23916), (257, 23919), (276, 24024), (282, 24054), (285, 24069), (308, 24159), (316, 24198), (323, 24243), (355, 24411), (388, 24528), (390, 24534), (402, 24579), (418, 24630), (419, 24633), (443, 24696), (449, 24705), (471, 24792),

Gene: Edison31_33 Start: 23483, Stop: 25318, Start Num: 26
Candidate Starts for Edison31_33:
(Start: 26 @23483 has 162 MA's), (36, 23516), (79, 23693), (125, 23885), (127, 23891), (128, 23912), (130, 23939), (187, 24119), (194, 24152), (198, 24170), (202, 24194), (221, 24302), (237, 24368), (258, 24434), (268, 24491), (273, 24524), (286, 24581), (297, 24635), (303, 24650), (312, 24704), (329, 24812), (333, 24827), (336, 24851), (341, 24866), (373, 24983), (378, 25001), (382, 25022), (383, 25025), (407, 25100), (411, 25115), (441, 25196), (454, 25226), (461, 25256), (472, 25301), (473, 25304),

Gene: EdogawaKiddo_31 Start: 24389, Stop: 26143, Start Num: 32
Candidate Starts for EdogawaKiddo_31:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (219, 25115), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (407, 25925), (411, 25940), (454, 26051), (472, 26126),

Gene: Eidsmoe_33 Start: 24443, Stop: 26209, Start Num: 27
Candidate Starts for Eidsmoe_33:
(Start: 27 @24443 has 26 MA's), (74, 24629), (94, 24719), (107, 24764), (109, 24773), (143, 24851), (161, 24875), (168, 24911), (194, 25040), (198, 25058), (244, 25283), (249, 25304), (258, 25322), (273, 25412), (286, 25469), (312, 25592), (333, 25715), (341, 25754), (355, 25811), (378, 25892),

(382, 25913), (383, 25916), (411, 26006), (454, 26117), (472, 26192),

Gene: Elephantoon_32 Start: 23816, Stop: 25582, Start Num: 27
Candidate Starts for Elephantoon_32:
(Start: 27 @23816 has 26 MA's), (74, 24002), (94, 24092), (107, 24137), (109, 24146), (141, 24215), (143, 24224), (161, 24248), (168, 24284), (175, 24326), (187, 24380), (194, 24413), (198, 24431), (202, 24455), (203, 24461), (237, 24629), (244, 24656), (258, 24695), (273, 24785), (286, 24842), (301, 24908), (312, 24965), (319, 25004), (333, 25088), (341, 25127), (378, 25265), (382, 25286), (383, 25289), (411, 25379), (441, 25460), (472, 25565),

Gene: EmyBug_33 Start: 24443, Stop: 26209, Start Num: 27
Candidate Starts for EmyBug_33:
(Start: 27 @24443 has 26 MA's), (74, 24629), (94, 24719), (107, 24764), (109, 24773), (143, 24851), (161, 24875), (168, 24911), (194, 25040), (198, 25058), (244, 25283), (249, 25304), (258, 25322), (273, 25412), (286, 25469), (312, 25592), (333, 25715), (341, 25754), (355, 25811), (378, 25892), (382, 25913), (383, 25916), (411, 26006), (454, 26117), (472, 26192),

Gene: EpicPhail_33 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for EpicPhail_33:
(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: Equemioh13_33 Start: 23218, Stop: 25425, Start Num: 1
Candidate Starts for Equemioh13_33:
(Start: 1 @23218 has 10 MA's), (5, 23332), (6, 23341), (7, 23347), (8, 23368), (19, 23479), (34, 23569), (38, 23581), (80, 23758), (87, 23797), (103, 23893), (173, 24154), (194, 24244), (201, 24274), (202, 24286), (243, 24484), (273, 24625), (279, 24646), (297, 24736), (299, 24742), (301, 24748), (310, 24787), (313, 24808), (319, 24844), (320, 24847), (329, 24913), (333, 24928), (334, 24931), (336, 24952), (346, 24985), (383, 25129), (399, 25177), (420, 25240), (445, 25300), (461, 25348), (472, 25402),

Gene: Eris_30 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Eris_30:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Eros_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Eros_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: EtoileNova_32 Start: 23377, Stop: 25236, Start Num: 23
Candidate Starts for EtoileNova_32:

(Start: 23 @23377 has 32 MA's), (58, 23521), (63, 23539), (74, 23578), (79, 23599), (89, 23641), (92, 23659), (141, 23818), (149, 23845), (171, 23950), (175, 23971), (194, 24058), (202, 24100), (258, 24340), (273, 24430), (286, 24487), (320, 24652), (328, 24706), (329, 24718), (333, 24733), (365, 24862), (368, 24874), (383, 24934), (388, 24946), (403, 24991), (408, 25009), (461, 25156), (465, 25183), (472, 25213),

Gene: Eurydice_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Eurydice_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (320, 24223), (323, 24241), (336, 24340), (388, 24526), (402, 24577), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: ExplosioNervosa_33 Start: 24446, Stop: 26212, Start Num: 27
Candidate Starts for ExplosioNervosa_33:
(Start: 27 @24446 has 26 MA's), (74, 24632), (94, 24722), (107, 24767), (109, 24776), (143, 24854), (161, 24878), (168, 24914), (194, 25043), (198, 25061), (244, 25286), (249, 25307), (258, 25325), (273, 25415), (286, 25472), (312, 25595), (333, 25718), (341, 25757), (355, 25814), (378, 25895), (382, 25916), (383, 25919), (411, 26009), (454, 26120), (472, 26195),

Gene: Farber_33 Start: 23270, Stop: 25027, Start Num: 24
Candidate Starts for Farber_33:
(Start: 24 @23270 has 83 MA's), (56, 23405), (74, 23471), (84, 23516), (92, 23552), (132, 23684), (143, 23720), (163, 23741), (179, 23798), (192, 23858), (206, 23912), (214, 23972), (241, 24092), (243, 24095), (264, 24164), (267, 24188), (286, 24281), (289, 24302), (301, 24347), (370, 24677), (389, 24746), (408, 24809), (464, 24980),

Gene: Fayely_33 Start: 24410, Stop: 26176, Start Num: 27
Candidate Starts for Fayely_33:
(Start: 27 @24410 has 26 MA's), (32, 24422), (74, 24596), (94, 24686), (107, 24731), (109, 24740), (143, 24818), (161, 24842), (168, 24878), (194, 25007), (198, 25025), (244, 25250), (249, 25271), (258, 25289), (273, 25379), (286, 25436), (312, 25559), (333, 25682), (341, 25721), (355, 25778), (378, 25859), (382, 25880), (383, 25883), (411, 25973), (454, 26084), (472, 26159),

Gene: Fernando_33 Start: 23276, Stop: 25033, Start Num: 24
Candidate Starts for Fernando_33:
(Start: 24 @23276 has 83 MA's), (56, 23411), (74, 23477), (84, 23522), (92, 23558), (132, 23690), (143, 23726), (163, 23747), (179, 23804), (192, 23864), (206, 23918), (214, 23978), (241, 24098), (243, 24101), (264, 24170), (267, 24194), (286, 24287), (289, 24308), (301, 24353), (370, 24683), (389, 24752), (408, 24815), (464, 24986),

Gene: Flare16_31 Start: 22776, Stop: 24998, Start Num: 1
Candidate Starts for Flare16_31:
(Start: 1 @22776 has 10 MA's), (5, 22890), (7, 22905), (19, 23037), (42, 23151), (45, 23172), (51, 23205), (80, 23316), (87, 23355), (103, 23451), (138, 23553), (194, 23802), (201, 23832), (202, 23844), (236, 24015), (258, 24084), (273, 24183), (297, 24294), (299, 24300), (301, 24306), (310, 24345), (319, 24402), (320, 24405), (329, 24471), (350, 24555), (368, 24627), (399, 24747), (437, 24858), (458, 24909), (461, 24921),

Gene: Flaverint_31 Start: 23391, Stop: 25382, Start Num: 16
Candidate Starts for Flaverint_31:

(Start: 16 @23391 has 11 MA's), (Start: 29 @23502 has 1 MA's), (33, 23511), (47, 23568), (48, 23583), (50, 23601), (52, 23613), (63, 23661), (69, 23679), (70, 23682), (96, 23802), (136, 23916), (139, 23937), (145, 23955), (156, 23988), (188, 24171), (195, 24201), (196, 24204), (229, 24378), (231, 24384), (238, 24408), (239, 24414), (261, 24489), (272, 24552), (283, 24594), (284, 24600), (309, 24723), (318, 24771), (320, 24780), (337, 24897), (339, 24900), (351, 24942), (359, 24984), (369, 25020), (383, 25074), (398, 25125), (400, 25131), (403, 25137), (416, 25179), (451, 25269), (463, 25326), (472, 25365), (476, 25374),

Gene: Florean_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Florean_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Flux_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Flux_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: ForesterFrank_33 Start: 24779, Stop: 26557, Start Num: 31
Candidate Starts for ForesterFrank_33:
(Start: 31 @24779 has 37 MA's), (56, 24890), (58, 24899), (83, 24986), (92, 25034), (94, 25046), (121, 25148), (143, 25202), (160, 25223), (163, 25235), (173, 25301), (194, 25391), (198, 25409), (202, 25433), (221, 25541), (225, 25568), (228, 25577), (258, 25673), (268, 25730), (297, 25874), (312, 25943), (333, 26066), (341, 26105), (378, 26240), (382, 26261), (390, 26282), (411, 26354), (441, 26435), (461, 26495), (469, 26525), (472, 26540),

Gene: Fred313_31 Start: 22584, Stop: 24443, Start Num: 23
Candidate Starts for Fred313_31:
(Start: 23 @22584 has 32 MA's), (55, 22710), (56, 22719), (74, 22785), (79, 22806), (89, 22848), (137, 23004), (149, 23052), (164, 23121), (165, 23127), (171, 23157), (194, 23265), (198, 23283), (202, 23307), (258, 23547), (273, 23637), (299, 23754), (320, 23859), (329, 23925), (333, 23940), (375, 24111), (408, 24216), (426, 24270), (441, 24309), (461, 24363), (465, 24390), (471, 24414),

Gene: Funston_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Funston_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Gadost_31 Start: 22964, Stop: 24820, Start Num: 26
Candidate Starts for Gadost_31:

(Start: 26 @22964 has 162 MA's), (56, 23090), (Start: 62 @23114 has 1 MA's), (89, 23219), (90, 23225), (97, 23273), (100, 23282), (110, 23324), (132, 23369), (137, 23375), (163, 23480), (164, 23492), (184, 23570), (198, 23639), (240, 23867), (246, 23891), (247, 23894), (255, 23921), (257, 23924), (276, 24029), (280, 24050), (282, 24059), (308, 24164), (316, 24203), (323, 24248), (354, 24410), (355, 24416), (388, 24533), (390, 24539), (402, 24584), (418, 24635), (419, 24638), (443, 24701), (449, 24710), (471, 24797),

Gene: GaugeLDP_33 Start: 24026, Stop: 25807, Start Num: 31
Candidate Starts for GaugeLDP_33:
(Start: 31 @24026 has 37 MA's), (39, 24047), (56, 24137), (58, 24146), (60, 24152), (92, 24284), (94, 24296), (106, 24353), (110, 24371), (163, 24485), (173, 24551), (194, 24641), (198, 24659), (202, 24683), (244, 24884), (258, 24923), (273, 25013), (279, 25034), (297, 25124), (310, 25175), (313, 25196), (336, 25340), (341, 25355), (350, 25385), (378, 25490), (382, 25511), (411, 25604), (425, 25643), (441, 25685), (454, 25715), (472, 25790),

Gene: Gemma_33 Start: 23357, Stop: 25165, Start Num: 24
Candidate Starts for Gemma_33:
(Start: 24 @23357 has 83 MA's), (56, 23492), (74, 23558), (84, 23603), (92, 23639), (112, 23729), (121, 23753), (141, 23798), (160, 23828), (194, 23996), (198, 24014), (202, 24038), (234, 24200), (244, 24239), (258, 24278), (273, 24368), (310, 24530), (313, 24551), (327, 24638), (336, 24695), (341, 24710), (357, 24773), (378, 24848), (382, 24869), (411, 24962), (425, 25001), (441, 25043), (471, 25142),

Gene: Gilberta_31 Start: 23388, Stop: 25379, Start Num: 16
Candidate Starts for Gilberta_31:
(Start: 16 @23388 has 11 MA's), (Start: 29 @23499 has 1 MA's), (33, 23508), (47, 23565), (48, 23580), (50, 23598), (52, 23610), (63, 23658), (69, 23676), (70, 23679), (96, 23799), (136, 23913), (139, 23934), (145, 23952), (156, 23985), (188, 24168), (195, 24198), (196, 24201), (229, 24375), (231, 24381), (238, 24405), (239, 24411), (261, 24486), (272, 24549), (283, 24591), (284, 24597), (309, 24720), (318, 24768), (320, 24777), (337, 24894), (339, 24897), (351, 24939), (359, 24981), (369, 25017), (383, 25071), (398, 25122), (400, 25128), (403, 25134), (416, 25176), (451, 25266), (463, 25323), (472, 25362), (476, 25371),

Gene: GingkoMaracino_33 Start: 23163, Stop: 24920, Start Num: 24
Candidate Starts for GingkoMaracino_33:
(Start: 24 @23163 has 83 MA's), (56, 23298), (74, 23364), (84, 23409), (92, 23445), (132, 23577), (143, 23613), (163, 23634), (179, 23691), (192, 23751), (206, 23805), (214, 23865), (241, 23985), (243, 23988), (264, 24057), (267, 24081), (286, 24174), (289, 24195), (301, 24240), (370, 24570), (389, 24639), (408, 24702), (464, 24873),

Gene: Giroux_32 Start: 22838, Stop: 24697, Start Num: 23
Candidate Starts for Giroux_32:
(Start: 23 @22838 has 32 MA's), (58, 22982), (Start: 62 @22997 has 1 MA's), (74, 23039), (99, 23162), (112, 23210), (133, 23252), (137, 23258), (141, 23279), (194, 23519), (201, 23549), (209, 23597), (234, 23723), (244, 23762), (258, 23801), (268, 23858), (273, 23891), (310, 24053), (311, 24056), (320, 24113), (329, 24179), (333, 24194), (383, 24395), (425, 24521), (426, 24524), (458, 24605), (461, 24617), (465, 24644), (472, 24674),

Gene: Goose_32 Start: 23270, Stop: 25105, Start Num: 26
Candidate Starts for Goose_32:
(Start: 26 @23270 has 162 MA's), (36, 23303), (41, 23318), (112, 23630), (121, 23654), (125, 23672), (126, 23675), (127, 23678), (128, 23699), (130, 23726), (194, 23939), (198, 23957), (202, 23981), (225, 24116), (228, 24125), (258, 24221), (268, 24278), (273, 24311), (297, 24422), (312, 24491),

(329, 24599), (333, 24614), (341, 24653), (343, 24659), (360, 24725), (378, 24788), (382, 24809), (383, 24812), (386, 24818), (390, 24830), (407, 24887), (411, 24902), (414, 24911), (419, 24926), (441, 24983), (461, 25043), (472, 25088), (473, 25091),

Gene: Gratitude_32 Start: 23218, Stop: 25425, Start Num: 1
Candidate Starts for Gratitude_32:
(Start: 1 @23218 has 10 MA's), (5, 23332), (6, 23341), (7, 23347), (8, 23368), (19, 23479), (34, 23569), (38, 23581), (80, 23758), (87, 23797), (103, 23893), (173, 24154), (194, 24244), (201, 24274), (202, 24286), (243, 24484), (273, 24625), (279, 24646), (297, 24736), (299, 24742), (301, 24748), (310, 24787), (313, 24808), (319, 24844), (320, 24847), (329, 24913), (333, 24928), (334, 24931), (336, 24952), (346, 24985), (383, 25129), (399, 25177), (420, 25240), (445, 25300), (461, 25348), (472, 25402),

Gene: Grif_33 Start: 23360, Stop: 25111, Start Num: 24
Candidate Starts for Grif_33:
(Start: 24 @23360 has 83 MA's), (56, 23495), (74, 23561), (84, 23606), (92, 23642), (107, 23714), (112, 23732), (143, 23810), (163, 23831), (192, 23948), (219, 24086), (241, 24182), (243, 24185), (264, 24254), (267, 24278), (275, 24323), (286, 24371), (301, 24437), (330, 24608), (332, 24614), (343, 24665), (355, 24710), (378, 24788), (389, 24830), (402, 24872), (434, 24974), (435, 24977), (449, 25001),

Gene: Groupthink_34 Start: 23361, Stop: 25169, Start Num: 24
Candidate Starts for Groupthink_34:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (112, 23733), (121, 23757), (141, 23802), (160, 23832), (194, 24000), (198, 24018), (202, 24042), (234, 24204), (244, 24243), (258, 24282), (273, 24372), (310, 24534), (313, 24555), (327, 24642), (336, 24699), (341, 24714), (357, 24777), (378, 24852), (382, 24873), (411, 24966), (425, 25005), (441, 25047), (471, 25146),

Gene: Grub_33 Start: 23269, Stop: 25026, Start Num: 24
Candidate Starts for Grub_33:
(Start: 24 @23269 has 83 MA's), (56, 23404), (74, 23470), (84, 23515), (92, 23551), (132, 23683), (143, 23719), (163, 23740), (179, 23797), (192, 23857), (206, 23911), (214, 23971), (241, 24091), (243, 24094), (264, 24163), (267, 24187), (286, 24280), (289, 24301), (301, 24346), (370, 24676), (389, 24745), (408, 24808), (464, 24979),

Gene: Grum1_33 Start: 23276, Stop: 25033, Start Num: 24
Candidate Starts for Grum1_33:
(Start: 24 @23276 has 83 MA's), (56, 23411), (74, 23477), (84, 23522), (92, 23558), (132, 23690), (143, 23726), (163, 23747), (179, 23804), (192, 23864), (206, 23918), (214, 23978), (241, 24098), (243, 24101), (264, 24170), (267, 24194), (286, 24287), (289, 24308), (301, 24353), (370, 24683), (389, 24752), (408, 24815), (464, 24986),

Gene: GtownJaz_33 Start: 23278, Stop: 25035, Start Num: 24
Candidate Starts for GtownJaz_33:
(Start: 24 @23278 has 83 MA's), (56, 23413), (74, 23479), (84, 23524), (92, 23560), (132, 23692), (143, 23728), (163, 23749), (179, 23806), (192, 23866), (206, 23920), (214, 23980), (241, 24100), (243, 24103), (264, 24172), (267, 24196), (286, 24289), (289, 24310), (301, 24355), (370, 24685), (389, 24754), (408, 24817), (464, 24988),

Gene: Gwennie_32 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for Gwennie_32:

(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: HamSlice_30 Start: 22958, Stop: 24814, Start Num: 26
Candidate Starts for HamSlice_30:
(Start: 26 @22958 has 162 MA's), (56, 23084), (Start: 62 @23108 has 1 MA's), (89, 23213), (90, 23219), (97, 23267), (110, 23318), (132, 23363), (137, 23369), (163, 23474), (164, 23486), (184, 23564), (198, 23633), (240, 23861), (246, 23885), (247, 23888), (255, 23915), (257, 23918), (276, 24023), (282, 24053), (285, 24068), (308, 24158), (316, 24197), (323, 24242), (355, 24410), (388, 24527), (390, 24533), (402, 24578), (418, 24629), (419, 24632), (443, 24695), (449, 24704), (471, 24791),

Gene: Hanray_32 Start: 24381, Stop: 26147, Start Num: 27
Candidate Starts for Hanray_32:
(Start: 27 @24381 has 26 MA's), (32, 24393), (74, 24567), (94, 24657), (107, 24702), (109, 24711), (143, 24789), (161, 24813), (168, 24849), (194, 24978), (198, 24996), (244, 25221), (249, 25242), (258, 25260), (273, 25350), (286, 25407), (312, 25530), (333, 25653), (341, 25692), (355, 25749), (378, 25830), (382, 25851), (383, 25854), (407, 25929), (411, 25944), (454, 26055), (472, 26130),

Gene: Happiness_31 Start: 22966, Stop: 24822, Start Num: 26
Candidate Starts for Happiness_31:
(Start: 26 @22966 has 162 MA's), (56, 23092), (Start: 62 @23116 has 1 MA's), (83, 23191), (89, 23221), (97, 23275), (100, 23284), (110, 23326), (137, 23377), (163, 23482), (164, 23494), (184, 23572), (198, 23641), (224, 23809), (233, 23839), (240, 23869), (246, 23893), (247, 23896), (255, 23923), (257, 23926), (276, 24031), (280, 24052), (282, 24061), (308, 24166), (316, 24205), (323, 24250), (354, 24412), (388, 24535), (402, 24586), (418, 24637), (419, 24640), (443, 24703), (449, 24712), (471, 24799),

Gene: HashRod_34 Start: 23364, Stop: 25115, Start Num: 24
Candidate Starts for HashRod_34:
(Start: 24 @23364 has 83 MA's), (56, 23499), (74, 23565), (84, 23610), (92, 23646), (120, 23757), (132, 23778), (143, 23814), (163, 23835), (192, 23952), (219, 24090), (241, 24186), (243, 24189), (264, 24258), (267, 24282), (275, 24327), (286, 24375), (301, 24441), (330, 24612), (332, 24618), (343, 24669), (355, 24714), (364, 24744), (378, 24792), (389, 24834), (393, 24849), (394, 24852), (402, 24876), (434, 24978), (435, 24981), (449, 25005),

Gene: HaveUMetTed_34 Start: 23354, Stop: 25162, Start Num: 24
Candidate Starts for HaveUMetTed_34:
(Start: 24 @23354 has 83 MA's), (56, 23489), (74, 23555), (84, 23600), (85, 23603), (121, 23750), (141, 23795), (160, 23825), (194, 23993), (198, 24011), (202, 24035), (234, 24197), (244, 24236), (258, 24275), (273, 24365), (310, 24527), (313, 24548), (327, 24635), (336, 24692), (341, 24707), (357, 24770), (378, 24845), (382, 24866), (411, 24959), (425, 24998), (441, 25040), (471, 25139),

Gene: Heathen_31 Start: 22640, Stop: 24499, Start Num: 23
Candidate Starts for Heathen_31:
(Start: 23 @22640 has 32 MA's), (55, 22766), (56, 22775), (74, 22841), (79, 22862), (89, 22904), (137, 23060), (149, 23108), (164, 23177), (165, 23183), (171, 23213), (194, 23321), (198, 23339), (202, 23363), (258, 23603), (273, 23693), (299, 23810), (320, 23915), (329, 23981), (333, 23996), (375, 24167), (408, 24272), (426, 24326), (441, 24365), (461, 24419), (465, 24446), (471, 24470),

Gene: Heffalump_33 Start: 24558, Stop: 26342, Start Num: 31

Candidate Starts for Heffalump_33:
(Start: 31 @24558 has 37 MA's), (39, 24579), (58, 24678), (67, 24711), (83, 24768), (90, 24804), (173, 25083), (175, 25086), (194, 25173), (198, 25191), (202, 25215), (219, 25314), (234, 25377), (244, 25416), (258, 25455), (273, 25545), (280, 25575), (287, 25605), (291, 25629), (310, 25707), (313, 25728), (336, 25872), (341, 25887), (378, 26025), (382, 26046), (411, 26139), (425, 26178), (428, 26187), (441, 26220), (454, 26250), (461, 26280), (471, 26319),

Gene: HelDan_31 Start: 22892, Stop: 24751, Start Num: 23
Candidate Starts for HelDan_31:
(Start: 23 @22892 has 32 MA's), (55, 23018), (56, 23027), (74, 23093), (79, 23114), (89, 23156), (137, 23312), (149, 23360), (164, 23429), (165, 23435), (171, 23465), (194, 23573), (198, 23591), (202, 23615), (258, 23855), (273, 23945), (299, 24062), (320, 24167), (329, 24233), (333, 24248), (375, 24419), (408, 24524), (426, 24578), (441, 24617), (461, 24671), (465, 24698), (471, 24722),

Gene: Heliosoles_33 Start: 23361, Stop: 25169, Start Num: 24
Candidate Starts for Heliosoles_33:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (112, 23733), (121, 23757), (141, 23802), (160, 23832), (194, 24000), (198, 24018), (202, 24042), (234, 24204), (244, 24243), (258, 24282), (273, 24372), (310, 24534), (313, 24555), (327, 24642), (336, 24699), (341, 24714), (357, 24777), (378, 24852), (382, 24873), (411, 24966), (425, 25005), (441, 25047), (471, 25146),

Gene: Hercules11_33 Start: 23284, Stop: 25041, Start Num: 24
Candidate Starts for Hercules11_33:
(Start: 24 @23284 has 83 MA's), (56, 23419), (74, 23485), (84, 23530), (92, 23566), (132, 23698), (143, 23734), (163, 23755), (179, 23812), (192, 23872), (206, 23926), (214, 23986), (241, 24106), (243, 24109), (264, 24178), (267, 24202), (286, 24295), (289, 24316), (301, 24361), (370, 24691), (389, 24760), (408, 24823), (464, 24994),

Gene: HippoHollow_32 Start: 24484, Stop: 26271, Start Num: 30
Candidate Starts for HippoHollow_32:
(Start: 30 @24484 has 12 MA's), (39, 24508), (56, 24598), (58, 24607), (67, 24640), (83, 24697), (100, 24790), (190, 25081), (194, 25102), (198, 25120), (202, 25144), (244, 25345), (258, 25384), (273, 25474), (286, 25531), (313, 25657), (329, 25762), (341, 25816), (378, 25954), (383, 25978), (411, 26068), (425, 26107), (432, 26131), (441, 26149), (472, 26254),

Gene: Holex_32 Start: 24381, Stop: 26147, Start Num: 27
Candidate Starts for Holex_32:
(Start: 27 @24381 has 26 MA's), (32, 24393), (74, 24567), (94, 24657), (107, 24702), (109, 24711), (143, 24789), (161, 24813), (168, 24849), (194, 24978), (198, 24996), (244, 25221), (249, 25242), (258, 25260), (273, 25350), (286, 25407), (312, 25530), (333, 25653), (341, 25692), (355, 25749), (378, 25830), (382, 25851), (383, 25854), (411, 25944), (454, 26055), (472, 26130),

Gene: Holli_31 Start: 22750, Stop: 24606, Start Num: 26
Candidate Starts for Holli_31:
(Start: 26 @22750 has 162 MA's), (56, 22876), (Start: 62 @22900 has 1 MA's), (89, 23005), (90, 23011), (97, 23059), (100, 23068), (110, 23110), (132, 23155), (137, 23161), (163, 23266), (164, 23278), (184, 23356), (198, 23425), (240, 23653), (246, 23677), (247, 23680), (255, 23707), (257, 23710), (276, 23815), (282, 23845), (285, 23860), (308, 23950), (316, 23989), (323, 24034), (355, 24202), (388, 24319), (390, 24325), (402, 24370), (418, 24421), (419, 24424), (443, 24487), (449, 24496), (471, 24583),

Gene: Hookmount_32 Start: 23374, Stop: 25233, Start Num: 23

Candidate Starts for Hookmount_32:
(Start: 23 @23374 has 32 MA's), (58, 23518), (63, 23536), (74, 23575), (79, 23596), (89, 23638), (92, 23656), (141, 23815), (149, 23842), (171, 23947), (175, 23968), (194, 24055), (202, 24097), (258, 24337), (273, 24427), (286, 24484), (320, 24649), (328, 24703), (329, 24715), (333, 24730), (365, 24859), (368, 24871), (383, 24931), (388, 24943), (403, 24988), (408, 25006), (461, 25153), (465, 25180), (472, 25210),

Gene: HortumSL17_33 Start: 24377, Stop: 26143, Start Num: 27
Candidate Starts for HortumSL17_33:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (411, 25940), (454, 26051), (472, 26126),

Gene: Houdini22_31 Start: 22964, Stop: 24820, Start Num: 26
Candidate Starts for Houdini22_31:
(Start: 26 @22964 has 162 MA's), (56, 23090), (Start: 62 @23114 has 1 MA's), (89, 23219), (90, 23225), (97, 23273), (100, 23282), (110, 23324), (132, 23369), (137, 23375), (163, 23480), (164, 23492), (184, 23570), (198, 23639), (240, 23867), (246, 23891), (247, 23894), (255, 23921), (257, 23924), (276, 24029), (280, 24050), (282, 24059), (308, 24164), (316, 24203), (323, 24248), (354, 24410), (355, 24416), (388, 24533), (390, 24539), (402, 24584), (418, 24635), (419, 24638), (443, 24701), (449, 24710), (471, 24797),

Gene: Huxley_31 Start: 23021, Stop: 24877, Start Num: 26
Candidate Starts for Huxley_31:
(Start: 26 @23021 has 162 MA's), (56, 23147), (Start: 62 @23171 has 1 MA's), (89, 23276), (90, 23282), (97, 23330), (110, 23381), (132, 23426), (137, 23432), (163, 23537), (164, 23549), (180, 23612), (184, 23627), (198, 23696), (240, 23924), (246, 23948), (247, 23951), (255, 23978), (257, 23981), (276, 24086), (280, 24107), (282, 24116), (308, 24221), (316, 24260), (323, 24305), (388, 24590), (390, 24596), (402, 24641), (418, 24692), (419, 24695), (443, 24758), (449, 24767), (471, 24854),

Gene: ICleared_31 Start: 22958, Stop: 24814, Start Num: 26
Candidate Starts for ICleared_31:
(Start: 26 @22958 has 162 MA's), (56, 23084), (Start: 62 @23108 has 1 MA's), (89, 23213), (90, 23219), (97, 23267), (110, 23318), (132, 23363), (137, 23369), (163, 23474), (164, 23486), (184, 23564), (198, 23633), (240, 23861), (246, 23885), (247, 23888), (255, 23915), (257, 23918), (276, 24023), (280, 24044), (282, 24053), (308, 24158), (316, 24197), (323, 24242), (354, 24404), (355, 24410), (388, 24527), (390, 24533), (402, 24578), (418, 24629), (419, 24632), (443, 24695), (449, 24704), (471, 24791),

Gene: Iceman_32 Start: 23249, Stop: 25105, Start Num: 26
Candidate Starts for Iceman_32:
(Start: 26 @23249 has 162 MA's), (56, 23375), (Start: 62 @23399 has 1 MA's), (89, 23504), (90, 23510), (97, 23558), (110, 23609), (132, 23654), (137, 23660), (163, 23765), (164, 23777), (184, 23855), (198, 23924), (240, 24152), (246, 24176), (247, 24179), (255, 24206), (257, 24209), (276, 24314), (282, 24344), (285, 24359), (308, 24449), (316, 24488), (323, 24533), (355, 24701), (386, 24812), (388, 24818), (390, 24824), (402, 24869), (418, 24920), (419, 24923), (443, 24986), (449, 24995), (471, 25082),

Gene: Idleandcovert_31 Start: 22838, Stop: 24697, Start Num: 23
Candidate Starts for Idleandcovert_31:

(Start: 23 @22838 has 32 MA's), (58, 22982), (Start: 62 @22997 has 1 MA's), (74, 23039), (99, 23162), (112, 23210), (133, 23252), (137, 23258), (141, 23279), (194, 23519), (201, 23549), (209, 23597), (234, 23723), (244, 23762), (258, 23801), (268, 23858), (273, 23891), (310, 24053), (311, 24056), (320, 24113), (329, 24179), (333, 24194), (383, 24395), (425, 24521), (426, 24524), (458, 24605), (461, 24617), (465, 24644), (472, 24674),

Gene: Insomnia_31 Start: 23449, Stop: 25440, Start Num: 16
Candidate Starts for Insomnia_31:
(Start: 16 @23449 has 11 MA's), (Start: 29 @23560 has 1 MA's), (33, 23569), (47, 23626), (48, 23641), (50, 23659), (52, 23671), (63, 23719), (69, 23737), (70, 23740), (96, 23860), (136, 23974), (139, 23995), (145, 24013), (156, 24046), (188, 24229), (195, 24259), (196, 24262), (229, 24436), (231, 24442), (238, 24466), (239, 24472), (261, 24547), (272, 24610), (283, 24652), (284, 24658), (309, 24781), (318, 24829), (320, 24838), (337, 24955), (339, 24958), (351, 25000), (359, 25042), (369, 25078), (383, 25132), (398, 25183), (400, 25189), (403, 25195), (416, 25237), (463, 25384), (472, 25423), (476, 25432),

Gene: Iracema64_32 Start: 23268, Stop: 25124, Start Num: 26
Candidate Starts for Iracema64_32:
(Start: 26 @23268 has 162 MA's), (56, 23394), (Start: 62 @23418 has 1 MA's), (89, 23523), (90, 23529), (97, 23577), (100, 23586), (110, 23628), (132, 23673), (137, 23679), (163, 23784), (164, 23796), (180, 23859), (184, 23874), (198, 23943), (224, 24111), (240, 24171), (247, 24198), (255, 24225), (257, 24228), (276, 24333), (280, 24354), (282, 24363), (308, 24468), (323, 24552), (336, 24651), (388, 24837), (390, 24843), (402, 24888), (418, 24939), (419, 24942), (443, 25005), (449, 25014), (471, 25101),

Gene: IronMan_34 Start: 24846, Stop: 26621, Start Num: 31
Candidate Starts for IronMan_34:
(17, 24744), (Start: 31 @24846 has 37 MA's), (39, 24867), (56, 24957), (58, 24966), (75, 25023), (83, 25050), (85, 25065), (100, 25143), (137, 25236), (141, 25257), (160, 25287), (163, 25299), (187, 25422), (194, 25455), (198, 25473), (202, 25497), (223, 25611), (244, 25698), (258, 25737), (268, 25794), (310, 25989), (313, 26010), (336, 26154), (341, 26169), (378, 26304), (383, 26328), (411, 26418), (441, 26499), (472, 26604),

Gene: Isca_31 Start: 22776, Stop: 24635, Start Num: 23
Candidate Starts for Isca_31:
(Start: 23 @22776 has 32 MA's), (55, 22902), (58, 22920), (Start: 62 @22935 has 1 MA's), (74, 22977), (137, 23196), (141, 23217), (149, 23244), (165, 23319), (171, 23349), (194, 23457), (198, 23475), (202, 23499), (258, 23739), (268, 23796), (273, 23829), (293, 23922), (299, 23946), (320, 24051), (329, 24117), (333, 24132), (375, 24303), (408, 24408), (425, 24459), (426, 24462), (441, 24501), (461, 24555), (465, 24582), (471, 24606),

Gene: JF2_31 Start: 22527, Stop: 24386, Start Num: 23
Candidate Starts for JF2_31:
(Start: 23 @22527 has 32 MA's), (55, 22653), (58, 22671), (Start: 62 @22686 has 1 MA's), (74, 22728), (89, 22791), (136, 22944), (137, 22947), (141, 22968), (149, 22995), (165, 23070), (175, 23121), (194, 23208), (202, 23250), (258, 23490), (268, 23547), (273, 23580), (293, 23673), (299, 23697), (320, 23802), (329, 23868), (333, 23883), (375, 24054), (408, 24159), (426, 24213), (441, 24252), (460, 24300), (461, 24306), (465, 24333), (471, 24357),

Gene: JF4_31 Start: 22527, Stop: 24386, Start Num: 23
Candidate Starts for JF4_31:
(Start: 23 @22527 has 32 MA's), (55, 22653), (58, 22671), (Start: 62 @22686 has 1 MA's), (74, 22728), (89, 22791), (136, 22944), (137, 22947), (141, 22968), (149, 22995), (165, 23070), (175, 23121), (194,

23208), (202, 23250), (258, 23490), (268, 23547), (273, 23580), (293, 23673), (299, 23697), (320, 23802), (329, 23868), (333, 23883), (375, 24054), (408, 24159), (426, 24213), (441, 24252), (460, 24300), (461, 24306), (465, 24333), (471, 24357),

Gene: JHC117_33 Start: 23275, Stop: 25032, Start Num: 24
Candidate Starts for JHC117_33:
(Start: 24 @23275 has 83 MA's), (56, 23410), (74, 23476), (84, 23521), (92, 23557), (132, 23689), (143, 23725), (163, 23746), (179, 23803), (192, 23863), (206, 23917), (214, 23977), (241, 24097), (243, 24100), (264, 24169), (267, 24193), (286, 24286), (289, 24307), (301, 24352), (370, 24682), (389, 24751), (408, 24814), (464, 24985),

Gene: Jaan_35 Start: 25218, Stop: 26993, Start Num: 26
Candidate Starts for Jaan_35:
(21, 25179), (Start: 26 @25218 has 162 MA's), (56, 25329), (58, 25338), (75, 25395), (83, 25422), (100, 25515), (137, 25608), (141, 25629), (160, 25659), (163, 25671), (187, 25794), (194, 25827), (198, 25845), (202, 25869), (223, 25983), (226, 26007), (244, 26070), (258, 26109), (260, 26121), (268, 26166), (310, 26361), (313, 26382), (341, 26541), (343, 26547), (360, 26613), (378, 26676), (382, 26697), (411, 26790), (441, 26871), (454, 26901), (461, 26931), (472, 26976),

Gene: Jabith_31 Start: 23449, Stop: 25440, Start Num: 16
Candidate Starts for Jabith_31:
(Start: 16 @23449 has 11 MA's), (Start: 29 @23560 has 1 MA's), (33, 23569), (47, 23626), (48, 23641), (50, 23659), (52, 23671), (63, 23719), (69, 23737), (70, 23740), (96, 23860), (136, 23974), (139, 23995), (145, 24013), (156, 24046), (188, 24229), (195, 24259), (196, 24262), (229, 24436), (231, 24442), (238, 24466), (239, 24472), (261, 24547), (272, 24610), (283, 24652), (284, 24658), (309, 24781), (318, 24829), (320, 24838), (337, 24955), (339, 24958), (351, 25000), (359, 25042), (369, 25078), (383, 25132), (398, 25183), (400, 25189), (403, 25195), (416, 25237), (451, 25327), (463, 25384), (472, 25423), (476, 25432),

Gene: Jaykayelowell_31 Start: 22956, Stop: 24812, Start Num: 26
Candidate Starts for Jaykayelowell_31:
(Start: 26 @22956 has 162 MA's), (56, 23082), (Start: 62 @23106 has 1 MA's), (89, 23211), (90, 23217), (97, 23265), (110, 23316), (132, 23361), (137, 23367), (163, 23472), (164, 23484), (184, 23562), (198, 23631), (240, 23859), (247, 23886), (255, 23913), (257, 23916), (276, 24021), (282, 24051), (285, 24066), (308, 24156), (316, 24195), (323, 24240), (355, 24408), (388, 24525), (390, 24531), (402, 24576), (418, 24627), (419, 24630), (443, 24693), (449, 24702), (471, 24789),

Gene: Jeeves_31 Start: 21978, Stop: 23861, Start Num: 9
Candidate Starts for Jeeves_31:
(Start: 9 @21978 has 1 MA's), (11, 21984), (43, 22194), (49, 22227), (54, 22251), (59, 22272), (81, 22347), (96, 22437), (138, 22551), (174, 22692), (197, 22746), (217, 22881), (228, 22935), (248, 23019), (270, 23118), (279, 23163), (294, 23247), (317, 23346), (322, 23370), (329, 23436), (333, 23451), (361, 23571), (377, 23598), (402, 23688), (411, 23724), (419, 23748), (430, 23781), (452, 23823), (457, 23850), (459, 23853),

Gene: JenCasNa_33 Start: 23276, Stop: 25033, Start Num: 24
Candidate Starts for JenCasNa_33:
(Start: 24 @23276 has 83 MA's), (56, 23411), (74, 23477), (84, 23522), (92, 23558), (132, 23690), (143, 23726), (163, 23747), (179, 23804), (192, 23864), (206, 23918), (214, 23978), (241, 24098), (243, 24101), (264, 24170), (267, 24194), (286, 24287), (289, 24308), (301, 24353), (370, 24683), (389, 24752), (408, 24815), (464, 24986),

Gene: JeppNRM_34 Start: 23360, Stop: 25168, Start Num: 24

Candidate Starts for JeppNRM_34:
(Start: 24 @23360 has 83 MA's), (56, 23495), (74, 23561), (84, 23606), (85, 23609), (107, 23714), (121, 23756), (141, 23801), (160, 23831), (188, 23972), (194, 23999), (198, 24017), (202, 24041), (234, 24203), (244, 24242), (258, 24281), (273, 24371), (310, 24533), (313, 24554), (327, 24641), (336, 24698), (341, 24713), (357, 24776), (378, 24851), (382, 24872), (411, 24965), (425, 25004), (441, 25046), (471, 25145),

Gene: JetBlade_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for JetBlade_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Jiawan_32 Start: 24413, Stop: 26179, Start Num: 27
Candidate Starts for Jiawan_32:
(Start: 27 @24413 has 26 MA's), (32, 24425), (74, 24599), (94, 24689), (107, 24734), (109, 24743), (143, 24821), (161, 24845), (168, 24881), (194, 25010), (198, 25028), (244, 25253), (249, 25274), (258, 25292), (273, 25382), (286, 25439), (312, 25562), (333, 25685), (341, 25724), (355, 25781), (378, 25862), (382, 25883), (383, 25886), (407, 25961), (411, 25976), (454, 26087), (472, 26162),

Gene: Jobu08_33 Start: 23349, Stop: 25154, Start Num: 24
Candidate Starts for Jobu08_33:
(Start: 24 @23349 has 83 MA's), (56, 23484), (74, 23550), (84, 23595), (107, 23703), (121, 23745), (141, 23790), (160, 23820), (194, 23988), (198, 24006), (202, 24030), (226, 24168), (234, 24192), (244, 24231), (258, 24270), (273, 24360), (310, 24522), (313, 24543), (327, 24630), (341, 24702), (350, 24732), (360, 24774), (378, 24837), (383, 24861), (407, 24936), (411, 24951), (425, 24990), (441, 25032), (472, 25137),

Gene: JoongJeon_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for JoongJeon_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Joselito_31 Start: 23397, Stop: 25388, Start Num: 16
Candidate Starts for Joselito_31:
(Start: 16 @23397 has 11 MA's), (Start: 29 @23508 has 1 MA's), (33, 23517), (47, 23574), (48, 23589), (50, 23607), (52, 23619), (63, 23667), (69, 23685), (70, 23688), (96, 23808), (136, 23922), (139, 23943), (145, 23961), (156, 23994), (188, 24177), (195, 24207), (196, 24210), (229, 24384), (231, 24390), (238, 24414), (239, 24420), (261, 24495), (272, 24558), (283, 24600), (284, 24606), (309, 24729), (318, 24777), (320, 24786), (337, 24903), (339, 24906), (351, 24948), (359, 24990), (369, 25026), (383, 25080), (398, 25131), (400, 25137), (403, 25143), (416, 25185), (451, 25275), (463, 25332), (472, 25371), (476, 25380),

Gene: Journey13_29 Start: 21908, Stop: 23737, Start Num: 31
Candidate Starts for Journey13_29:

(Start: 31 @21908 has 37 MA's), (61, 22037), (Start: 62 @22043 has 1 MA's), (90, 22154), (94, 22178), (137, 22313), (145, 22346), (146, 22352), (183, 22532), (251, 22850), (272, 22952), (277, 22973), (278, 22979), (281, 22994), (293, 23054), (298, 23081), (338, 23300), (412, 23564), (432, 23624), (466, 23726), (467, 23729),

Gene: Jsquared_30 Start: 21719, Stop: 23470, Start Num: 31
Candidate Starts for Jsquared_30:
(Start: 31 @21719 has 37 MA's), (39, 21740), (58, 21839), (Start: 62 @21854 has 1 MA's), (83, 21929), (90, 21965), (92, 21977), (94, 21989), (97, 22013), (99, 22019), (123, 22100), (138, 22133), (145, 22157), (146, 22163), (161, 22235), (183, 22343), (251, 22661), (277, 22781), (290, 22850), (332, 23081), (350, 23156), (353, 23168), (354, 23177), (363, 23216), (426, 23411), (435, 23438), (436, 23441), (442, 23453),

Gene: KADY_34 Start: 23364, Stop: 25115, Start Num: 24
Candidate Starts for KADY_34:
(Start: 24 @23364 has 83 MA's), (56, 23499), (74, 23565), (84, 23610), (92, 23646), (120, 23757), (132, 23778), (143, 23814), (163, 23835), (192, 23952), (219, 24090), (241, 24186), (243, 24189), (264, 24258), (267, 24282), (275, 24327), (286, 24375), (301, 24441), (330, 24612), (332, 24618), (343, 24669), (355, 24714), (364, 24744), (378, 24792), (389, 24834), (393, 24849), (394, 24852), (402, 24876), (434, 24978), (435, 24981), (449, 25005),

Gene: KFPoly_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for KFPoly_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (280, 24043), (282, 24052), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Kachowdy_31 Start: 22892, Stop: 24751, Start Num: 23
Candidate Starts for Kachowdy_31:
(Start: 23 @22892 has 32 MA's), (55, 23018), (56, 23027), (74, 23093), (79, 23114), (89, 23156), (137, 23312), (149, 23360), (164, 23429), (165, 23435), (171, 23465), (194, 23573), (198, 23591), (202, 23615), (258, 23855), (273, 23945), (299, 24062), (320, 24167), (329, 24233), (333, 24248), (375, 24419), (408, 24524), (426, 24578), (441, 24617), (461, 24671), (465, 24698), (471, 24722),

Gene: Kalb97_34 Start: 23360, Stop: 25168, Start Num: 24
Candidate Starts for Kalb97_34:
(Start: 24 @23360 has 83 MA's), (56, 23495), (74, 23561), (84, 23606), (92, 23642), (112, 23732), (121, 23756), (141, 23801), (160, 23831), (194, 23999), (198, 24017), (202, 24041), (234, 24203), (244, 24242), (258, 24281), (273, 24371), (310, 24533), (313, 24554), (327, 24641), (336, 24698), (341, 24713), (357, 24776), (378, 24851), (382, 24872), (411, 24965), (425, 25004), (428, 25013), (441, 25046), (471, 25145),

Gene: Kalnoky_34 Start: 23361, Stop: 25169, Start Num: 24
Candidate Starts for Kalnoky_34:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (85, 23610), (107, 23715), (121, 23757), (141, 23802), (160, 23832), (188, 23973), (194, 24000), (198, 24018), (202, 24042), (234, 24204), (244, 24243), (258, 24282), (273, 24372), (310, 24534), (313, 24555), (327, 24642), (336, 24699), (341, 24714), (357, 24777), (378, 24852), (382, 24873), (411, 24966), (425, 25005), (441, 25047), (471, 25146),

Gene: Kalpine_34 Start: 24570, Stop: 26348, Start Num: 28
Candidate Starts for Kalpine_34:
(Start: 28 @24570 has 5 MA's), (56, 24684), (58, 24693), (92, 24825), (173, 25092), (194, 25182), (198, 25200), (244, 25425), (258, 25464), (260, 25476), (273, 25554), (286, 25611), (297, 25665), (312, 25734), (332, 25851), (341, 25896), (356, 25953), (378, 26031), (382, 26052), (390, 26073), (411, 26145), (441, 26226), (454, 26256), (461, 26286), (472, 26331),

Gene: Kampy_31 Start: 22958, Stop: 24814, Start Num: 26
Candidate Starts for Kampy_31:
(Start: 26 @22958 has 162 MA's), (56, 23084), (Start: 62 @23108 has 1 MA's), (89, 23213), (90, 23219), (97, 23267), (100, 23276), (110, 23318), (132, 23363), (137, 23369), (163, 23474), (164, 23486), (184, 23564), (198, 23633), (240, 23861), (246, 23885), (247, 23888), (255, 23915), (257, 23918), (276, 24023), (282, 24053), (285, 24068), (308, 24158), (316, 24197), (320, 24224), (323, 24242), (336, 24341), (388, 24527), (402, 24578), (419, 24632), (443, 24695), (449, 24704), (471, 24791),

Gene: Katalie136_31 Start: 22972, Stop: 24831, Start Num: 26
Candidate Starts for Katalie136_31:
(18, 22912), (Start: 26 @22972 has 162 MA's), (44, 23038), (53, 23083), (55, 23089), (Start: 62 @23122 has 1 MA's), (67, 23140), (79, 23185), (82, 23191), (83, 23197), (100, 23290), (104, 23305), (132, 23377), (152, 23437), (163, 23488), (164, 23500), (184, 23578), (198, 23647), (216, 23770), (222, 23794), (240, 23875), (250, 23920), (255, 23929), (257, 23932), (280, 24061), (282, 24070), (290, 24112), (296, 24139), (308, 24175), (312, 24202), (316, 24214), (340, 24370), (388, 24544), (390, 24550), (402, 24595), (418, 24646), (419, 24649), (431, 24685), (449, 24721),

Gene: KekoraPapaka_30 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for KekoraPapaka_30:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Kerberos_34 Start: 22559, Stop: 24412, Start Num: 31
Candidate Starts for Kerberos_34:
(Start: 28 @22553 has 5 MA's), (Start: 31 @22559 has 37 MA's), (58, 22679), (83, 22769), (94, 22829), (105, 22880), (138, 22973), (145, 22997), (146, 23003), (251, 23510), (267, 23579), (284, 23666), (302, 23747), (332, 23930), (390, 24149), (393, 24161), (403, 24191), (425, 24260), (432, 24284), (436, 24293), (453, 24329),

Gene: Kimona_28 Start: 20738, Stop: 22444, Start Num: 26
Candidate Starts for Kimona_28:
(Start: 26 @20738 has 162 MA's), (36, 20771), (41, 20786), (74, 20936), (75, 20942), (97, 21053), (99, 21059), (138, 21116), (159, 21185), (164, 21218), (167, 21230), (201, 21389), (277, 21752), (335, 22079), (342, 22100), (345, 22112), (357, 22166), (363, 22190), (390, 22271), (423, 22379), (432, 22409), (446, 22436),

Gene: Kingmustik0402_31 Start: 22952, Stop: 24808, Start Num: 26
Candidate Starts for Kingmustik0402_31:
(Start: 26 @22952 has 162 MA's), (56, 23078), (Start: 62 @23102 has 1 MA's), (89, 23207), (90, 23213), (97, 23261), (100, 23270), (110, 23312), (132, 23357), (137, 23363), (163, 23468), (164, 23480), (184, 23558), (198, 23627), (240, 23855), (246, 23879), (247, 23882), (255, 23909), (257,

23912), (276, 24017), (282, 24047), (285, 24062), (308, 24152), (316, 24191), (323, 24236), (355, 24404), (388, 24521), (390, 24527), (402, 24572), (418, 24623), (419, 24626), (443, 24689), (449, 24698), (471, 24785),

Gene: Kinmap_32 Start: 22357, Stop: 24255, Start Num: 9
Candidate Starts for Kinmap_32:
(4, 22222), (Start: 9 @22357 has 1 MA's), (11, 22363), (25, 22507), (54, 22630), (71, 22696), (76, 22717), (138, 22936), (151, 22978), (174, 23077), (213, 23281), (228, 23362), (232, 23374), (248, 23446), (257, 23470), (268, 23536), (329, 23863), (333, 23878), (416, 24130), (424, 24154), (457, 24244), (459, 24247),

Gene: Klodlith_31 Start: 22328, Stop: 23986, Start Num: 30
Candidate Starts for Klodlith_31:
(Start: 30 @22328 has 12 MA's), (67, 22484), (75, 22514), (88, 22565), (99, 22631), (115, 22679), (124, 22703), (157, 22778), (189, 22892), (210, 23003), (245, 23183), (257, 23219), (279, 23339), (305, 23453), (307, 23465), (329, 23612), (333, 23627), (345, 23681), (409, 23837), (419, 23870),

Gene: Koan_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Koan_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Koduck_32 Start: 21936, Stop: 23582, Start Num: 31
Candidate Starts for Koduck_32:
(Start: 31 @21936 has 37 MA's), (58, 22056), (Start: 62 @22071 has 1 MA's), (83, 22146), (92, 22194), (94, 22206), (106, 22263), (145, 22374), (146, 22380), (161, 22452), (204, 22671), (230, 22785), (251, 22869), (253, 22875), (265, 22911), (277, 22995), (292, 23073), (312, 23169), (320, 23208), (332, 23295), (350, 23367), (367, 23442), (371, 23454), (377, 23463), (384, 23493), (408, 23562),

Gene: Koreni_30 Start: 22606, Stop: 24462, Start Num: 26
Candidate Starts for Koreni_30:
(Start: 26 @22606 has 162 MA's), (56, 22732), (Start: 62 @22756 has 1 MA's), (89, 22861), (90, 22867), (97, 22915), (100, 22924), (110, 22966), (132, 23011), (137, 23017), (163, 23122), (164, 23134), (184, 23212), (198, 23281), (240, 23509), (246, 23533), (247, 23536), (255, 23563), (257, 23566), (276, 23671), (280, 23692), (282, 23701), (308, 23806), (316, 23845), (323, 23890), (354, 24052), (355, 24058), (388, 24175), (390, 24181), (402, 24226), (418, 24277), (419, 24280), (443, 24343), (449, 24352), (471, 24439),

Gene: Kratark_31 Start: 22952, Stop: 24808, Start Num: 26
Candidate Starts for Kratark_31:
(Start: 26 @22952 has 162 MA's), (56, 23078), (Start: 62 @23102 has 1 MA's), (89, 23207), (90, 23213), (97, 23261), (110, 23312), (132, 23357), (137, 23363), (163, 23468), (164, 23480), (180, 23543), (184, 23558), (198, 23627), (240, 23855), (246, 23879), (247, 23882), (255, 23909), (257, 23912), (276, 24017), (280, 24038), (282, 24047), (308, 24152), (316, 24191), (323, 24236), (336, 24335), (388, 24521), (390, 24527), (402, 24572), (418, 24623), (419, 24626), (443, 24689), (449, 24698), (471, 24785),

Gene: Kremtemulon_31 Start: 23008, Stop: 24867, Start Num: 26
Candidate Starts for Kremtemulon_31:

(Start: 26 @23008 has 162 MA's), (56, 23134), (Start: 62 @23158 has 1 MA's), (89, 23263), (90, 23269), (97, 23317), (100, 23326), (110, 23368), (137, 23419), (163, 23524), (164, 23536), (184, 23614), (198, 23683), (240, 23911), (247, 23938), (255, 23965), (257, 23968), (276, 24073), (282, 24103), (285, 24118), (308, 24208), (316, 24247), (320, 24274), (323, 24292), (390, 24583), (411, 24661), (415, 24673), (418, 24679), (431, 24718), (443, 24745), (447, 24751), (471, 24844),

Gene: Kristoff_34 Start: 23647, Stop: 25482, Start Num: 26
Candidate Starts for Kristoff_34:
(Start: 26 @23647 has 162 MA's), (36, 23680), (79, 23857), (125, 24049), (127, 24055), (128, 24076), (130, 24103), (187, 24283), (194, 24316), (198, 24334), (202, 24358), (221, 24466), (258, 24598), (268, 24655), (273, 24688), (286, 24745), (297, 24799), (303, 24814), (312, 24868), (329, 24976), (333, 24991), (336, 25015), (341, 25030), (373, 25147), (378, 25165), (382, 25186), (383, 25189), (407, 25264), (411, 25279), (441, 25360), (454, 25390), (461, 25420), (472, 25465), (473, 25468),

Gene: Kyee_31 Start: 22958, Stop: 24814, Start Num: 26
Candidate Starts for Kyee_31:
(Start: 26 @22958 has 162 MA's), (56, 23084), (Start: 62 @23108 has 1 MA's), (89, 23213), (90, 23219), (97, 23267), (100, 23276), (110, 23318), (132, 23363), (137, 23369), (163, 23474), (164, 23486), (184, 23564), (198, 23633), (240, 23861), (246, 23885), (247, 23888), (255, 23915), (257, 23918), (276, 24023), (280, 24044), (282, 24053), (308, 24158), (316, 24197), (323, 24242), (355, 24410), (388, 24527), (390, 24533), (402, 24578), (418, 24629), (419, 24632), (443, 24695), (449, 24704), (471, 24791),

Gene: L5_31 Start: 21890, Stop: 23536, Start Num: 31
Candidate Starts for L5_31:
(Start: 31 @21890 has 37 MA's), (58, 22010), (Start: 62 @22025 has 1 MA's), (83, 22100), (92, 22148), (94, 22160), (123, 22271), (145, 22328), (146, 22334), (161, 22406), (204, 22625), (230, 22739), (251, 22823), (253, 22829), (265, 22865), (277, 22949), (292, 23027), (312, 23123), (320, 23162), (332, 23249), (371, 23408), (384, 23447),

Gene: LBerry_33 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for LBerry_33:
(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: LHTSCC_32 Start: 23274, Stop: 25130, Start Num: 26
Candidate Starts for LHTSCC_32:
(Start: 26 @23274 has 162 MA's), (56, 23400), (Start: 62 @23424 has 1 MA's), (89, 23529), (90, 23535), (97, 23583), (110, 23634), (137, 23685), (163, 23790), (164, 23802), (184, 23880), (198, 23949), (224, 24117), (233, 24147), (240, 24177), (246, 24201), (247, 24204), (255, 24231), (257, 24234), (276, 24339), (280, 24360), (282, 24369), (316, 24513), (323, 24558), (354, 24720), (388, 24843), (402, 24894), (443, 25011), (449, 25020), (471, 25107),

Gene: Lambert1_32 Start: 23373, Stop: 25232, Start Num: 23
Candidate Starts for Lambert1_32:
(Start: 23 @23373 has 32 MA's), (58, 23517), (63, 23535), (74, 23574), (79, 23595), (89, 23637), (92, 23655), (141, 23814), (149, 23841), (171, 23946), (175, 23967), (194, 24054), (202, 24096), (258, 24336), (273, 24426), (286, 24483), (320, 24648), (328, 24702), (329, 24714), (333, 24729), (365, 24858), (368, 24870), (383, 24930), (388, 24942), (403, 24987), (408, 25005), (461, 25152), (465, 25179), (472, 25209),

Gene: Landor_33 Start: 24870, Stop: 26645, Start Num: 26
Candidate Starts for Landor_33:
(21, 24831), (Start: 26 @24870 has 162 MA's), (56, 24981), (58, 24990), (75, 25047), (83, 25074), (100, 25167), (137, 25260), (141, 25281), (160, 25311), (163, 25323), (187, 25446), (194, 25479), (198, 25497), (202, 25521), (223, 25635), (234, 25683), (244, 25722), (258, 25761), (260, 25773), (268, 25818), (310, 26013), (313, 26034), (328, 26127), (341, 26193), (360, 26265), (378, 26328), (407, 26427), (411, 26442), (441, 26523), (461, 26583), (472, 26628),

Gene: LappelDuVide_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for LappelDuVide_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: LarryKay_33 Start: 23366, Stop: 25117, Start Num: 24
Candidate Starts for LarryKay_33:
(Start: 24 @23366 has 83 MA's), (56, 23501), (74, 23567), (84, 23612), (92, 23648), (120, 23759), (132, 23780), (143, 23816), (163, 23837), (192, 23954), (219, 24092), (241, 24188), (243, 24191), (264, 24260), (267, 24284), (275, 24329), (286, 24377), (301, 24443), (330, 24614), (332, 24620), (343, 24671), (355, 24716), (364, 24746), (378, 24794), (389, 24836), (393, 24851), (394, 24854), (402, 24878), (434, 24980), (435, 24983), (449, 25007),

Gene: Lemur_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Lemur_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: LeoAvram_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for LeoAvram_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (336, 24340), (388, 24526), (402, 24577), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Leogania_33 Start: 24913, Stop: 26691, Start Num: 26
Candidate Starts for Leogania_33:
(Start: 26 @24913 has 162 MA's), (56, 25024), (58, 25033), (83, 25120), (143, 25336), (160, 25357), (163, 25369), (190, 25504), (194, 25525), (198, 25543), (202, 25567), (221, 25675), (258, 25807), (268, 25864), (273, 25897), (286, 25954), (329, 26185), (336, 26224), (341, 26239), (378, 26374), (383, 26398), (386, 26404), (407, 26473), (411, 26488), (425, 26527), (428, 26536), (441, 26569), (472, 26674), (476, 26683),

Gene: Lilith_33 Start: 23270, Stop: 25027, Start Num: 24
Candidate Starts for Lilith_33:

(Start: 24 @23270 has 83 MA's), (56, 23405), (74, 23471), (84, 23516), (92, 23552), (132, 23684), (143, 23720), (163, 23741), (179, 23798), (192, 23858), (206, 23912), (214, 23972), (241, 24092), (243, 24095), (264, 24164), (267, 24188), (286, 24281), (289, 24302), (301, 24347), (370, 24677), (389, 24746), (408, 24809), (464, 24980),

Gene: Lilleskat_31 Start: 24377, Stop: 26143, Start Num: 27
Candidate Starts for Lilleskat_31:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (411, 25940), (454, 26051), (472, 26126),

Gene: LionsBait_32 Start: 24478, Stop: 26265, Start Num: 30
Candidate Starts for LionsBait_32:
(Start: 30 @24478 has 12 MA's), (39, 24502), (56, 24592), (58, 24601), (67, 24634), (83, 24691), (100, 24784), (190, 25075), (194, 25096), (198, 25114), (202, 25138), (244, 25339), (258, 25378), (273, 25468), (286, 25525), (313, 25651), (329, 25756), (341, 25810), (378, 25948), (383, 25972), (411, 26062), (425, 26101), (432, 26125), (441, 26143), (472, 26248),

Gene: LittleB_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for LittleB_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: LittleGuy_31 Start: 22903, Stop: 24762, Start Num: 26
Candidate Starts for LittleGuy_31:
(Start: 26 @22903 has 162 MA's), (56, 23029), (Start: 62 @23053 has 1 MA's), (89, 23158), (90, 23164), (97, 23212), (100, 23221), (110, 23263), (132, 23308), (137, 23314), (163, 23419), (164, 23431), (184, 23509), (198, 23578), (255, 23860), (257, 23863), (276, 23968), (282, 23998), (308, 24103), (316, 24142), (320, 24169), (323, 24187), (390, 24478), (411, 24556), (415, 24568), (418, 24574), (431, 24613), (443, 24640), (447, 24646), (449, 24649), (471, 24739),

Gene: LochMonster_31 Start: 22932, Stop: 24788, Start Num: 26
Candidate Starts for LochMonster_31:
(Start: 26 @22932 has 162 MA's), (56, 23058), (Start: 62 @23082 has 1 MA's), (89, 23187), (90, 23193), (97, 23241), (100, 23250), (110, 23292), (132, 23337), (137, 23343), (163, 23448), (164, 23460), (180, 23523), (184, 23538), (198, 23607), (224, 23775), (240, 23835), (247, 23862), (255, 23889), (257, 23892), (276, 23997), (280, 24018), (282, 24027), (308, 24132), (323, 24216), (336, 24315), (388, 24501), (390, 24507), (402, 24552), (418, 24603), (419, 24606), (443, 24669), (449, 24678), (471, 24765),

Gene: Lokk_34 Start: 24358, Stop: 26142, Start Num: 30
Candidate Starts for Lokk_34:
(Start: 30 @24358 has 12 MA's), (39, 24382), (56, 24472), (58, 24481), (74, 24538), (173, 24886), (175, 24889), (194, 24976), (198, 24994), (202, 25018), (221, 25126), (244, 25219), (258, 25258), (273, 25348), (287, 25408), (297, 25459), (310, 25510), (313, 25531), (321, 25576), (336, 25675), (341, 25690), (346, 25708), (382, 25846), (390, 25867), (411, 25939), (417, 25957), (425, 25978), (431, 25999), (441, 26020), (461, 26080), (472, 26125),

Gene: LoneWolf_32 Start: 23970, Stop: 25736, Start Num: 27
Candidate Starts for LoneWolf_32:
(Start: 27 @23970 has 26 MA's), (74, 24156), (86, 24204), (94, 24246), (107, 24291), (109, 24300), (121, 24324), (141, 24369), (143, 24378), (161, 24402), (168, 24438), (194, 24567), (198, 24585), (203, 24615), (207, 24624), (237, 24783), (244, 24810), (258, 24849), (273, 24939), (286, 24996), (301, 25062), (312, 25119), (333, 25242), (341, 25281), (378, 25419), (382, 25440), (383, 25443), (402, 25500), (411, 25533), (454, 25644), (472, 25719),

Gene: Lorenzo_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Lorenzo_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Loser_35 Start: 25033, Stop: 26811, Start Num: 31
Candidate Starts for Loser_35:
(Start: 31 @25033 has 37 MA's), (56, 25144), (58, 25153), (68, 25186), (83, 25240), (90, 25276), (92, 25288), (94, 25300), (141, 25447), (143, 25456), (160, 25477), (163, 25489), (173, 25555), (190, 25624), (194, 25645), (198, 25663), (202, 25687), (219, 25786), (221, 25795), (258, 25927), (268, 25984), (273, 26017), (286, 26074), (297, 26128), (312, 26197), (333, 26320), (341, 26359), (355, 26413), (378, 26494), (382, 26515), (390, 26536), (411, 26608), (441, 26689),

Gene: Louie6_33 Start: 23364, Stop: 25115, Start Num: 24
Candidate Starts for Louie6_33:
(Start: 24 @23364 has 83 MA's), (56, 23499), (74, 23565), (84, 23610), (92, 23646), (120, 23757), (132, 23778), (143, 23814), (163, 23835), (192, 23952), (219, 24090), (241, 24186), (243, 24189), (264, 24258), (267, 24282), (275, 24327), (286, 24375), (301, 24441), (330, 24612), (332, 24618), (343, 24669), (355, 24714), (364, 24744), (378, 24792), (389, 24834), (393, 24849), (394, 24852), (402, 24876), (434, 24978), (435, 24981), (449, 25005),

Gene: Lowa_33 Start: 23269, Stop: 25026, Start Num: 24
Candidate Starts for Lowa_33:
(Start: 24 @23269 has 83 MA's), (56, 23404), (74, 23470), (84, 23515), (92, 23551), (132, 23683), (143, 23719), (163, 23740), (179, 23797), (192, 23857), (206, 23911), (214, 23971), (241, 24091), (243, 24094), (264, 24163), (267, 24187), (286, 24280), (289, 24301), (301, 24346), (370, 24676), (389, 24745), (408, 24808), (464, 24979),

Gene: Lucivia_31 Start: 23446, Stop: 25437, Start Num: 16
Candidate Starts for Lucivia_31:
(Start: 16 @23446 has 11 MA's), (Start: 29 @23557 has 1 MA's), (33, 23566), (47, 23623), (48, 23638), (50, 23656), (52, 23668), (63, 23716), (69, 23734), (70, 23737), (96, 23857), (136, 23971), (139, 23992), (145, 24010), (156, 24043), (188, 24226), (195, 24256), (196, 24259), (229, 24433), (231, 24439), (238, 24463), (239, 24469), (261, 24544), (272, 24607), (283, 24649), (284, 24655), (309, 24778), (318, 24826), (320, 24835), (337, 24952), (339, 24955), (351, 24997), (359, 25039), (369, 25075), (383, 25129), (398, 25180), (400, 25186), (403, 25192), (416, 25234), (451, 25324), (463, 25381), (472, 25420), (476, 25429),

Gene: LugYA_35 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for LugYA_35:

(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: Lunsford_32 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Lunsford_32:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: MA5_31 Start: 22455, Stop: 24314, Start Num: 23
Candidate Starts for MA5_31:
(Start: 23 @22455 has 32 MA's), (46, 22533), (58, 22599), (74, 22656), (91, 22731), (137, 22875), (141, 22896), (149, 22923), (165, 22998), (175, 23049), (194, 23136), (198, 23154), (202, 23178), (258, 23418), (273, 23508), (312, 23688), (320, 23730), (329, 23796), (333, 23811), (336, 23835), (375, 23982), (383, 24012), (426, 24141), (461, 24234), (465, 24261), (471, 24285), (472, 24291),

Gene: MK4_31 Start: 22761, Stop: 24620, Start Num: 23
Candidate Starts for MK4_31:
(Start: 23 @22761 has 32 MA's), (55, 22887), (58, 22905), (Start: 62 @22920 has 1 MA's), (74, 22962), (89, 23025), (136, 23178), (137, 23181), (141, 23202), (149, 23229), (165, 23304), (175, 23355), (194, 23442), (198, 23460), (202, 23484), (226, 23622), (258, 23724), (268, 23781), (273, 23814), (293, 23907), (299, 23931), (320, 24036), (329, 24102), (333, 24117), (375, 24288), (408, 24393), (426, 24447), (441, 24486), (461, 24540), (465, 24567), (471, 24591),

Gene: MaCh_31 Start: 23388, Stop: 25376, Start Num: 16
Candidate Starts for MaCh_31:
(Start: 16 @23388 has 11 MA's), (Start: 29 @23499 has 1 MA's), (33, 23508), (47, 23565), (48, 23580), (50, 23598), (52, 23610), (63, 23658), (69, 23676), (70, 23679), (96, 23799), (136, 23913), (139, 23934), (145, 23952), (156, 23985), (188, 24168), (195, 24198), (196, 24201), (229, 24375), (231, 24381), (238, 24405), (239, 24411), (261, 24486), (272, 24549), (283, 24591), (284, 24597), (309, 24720), (318, 24768), (320, 24777), (337, 24894), (339, 24897), (351, 24939), (359, 24981), (369, 25017), (383, 25071), (451, 25263), (463, 25320), (472, 25359), (476, 25368),

Gene: MadMarie_33 Start: 23279, Stop: 25036, Start Num: 24
Candidate Starts for MadMarie_33:
(Start: 24 @23279 has 83 MA's), (56, 23414), (74, 23480), (84, 23525), (92, 23561), (132, 23693), (143, 23729), (163, 23750), (179, 23807), (192, 23867), (206, 23921), (214, 23981), (241, 24101), (243, 24104), (264, 24173), (267, 24197), (286, 24290), (289, 24311), (301, 24356), (370, 24686), (389, 24755), (408, 24818), (464, 24989),

Gene: Mainiac_33 Start: 23270, Stop: 25027, Start Num: 24
Candidate Starts for Mainiac_33:
(Start: 24 @23270 has 83 MA's), (56, 23405), (74, 23471), (84, 23516), (92, 23552), (132, 23684), (143, 23720), (163, 23741), (179, 23798), (192, 23858), (206, 23912), (214, 23972), (241, 24092), (243, 24095), (264, 24164), (267, 24188), (286, 24281), (289, 24302), (301, 24347), (370, 24677), (389, 24746), (408, 24809), (464, 24980),

Gene: MajorMajor_30 Start: 21646, Stop: 23397, Start Num: 31

Candidate Starts for MajorMajor_30:
(Start: 31 @21646 has 37 MA's), (39, 21667), (58, 21766), (Start: 62 @21781 has 1 MA's), (83, 21856), (94, 21916), (123, 22027), (138, 22060), (145, 22084), (146, 22090), (161, 22162), (173, 22237), (183, 22270), (188, 22300), (251, 22588), (277, 22708), (290, 22777), (332, 23008), (350, 23083), (353, 23095), (354, 23104), (363, 23143), (426, 23338), (435, 23365), (436, 23368), (442, 23380),

Gene: Malec_32 Start: 23029, Stop: 25110, Start Num: 30
Candidate Starts for Malec_32:
(Start: 30 @23029 has 12 MA's), (39, 23053), (56, 23143), (60, 23158), (85, 23257), (99, 23332), (113, 23380), (166, 23569), (172, 23608), (195, 23704), (246, 23953), (266, 24016), (272, 24061), (292, 24163), (318, 24301), (326, 24364), (330, 24394), (352, 24478), (374, 24568), (378, 24577), (381, 24592), (383, 24601), (444, 24775), (474, 24895), (478, 24934), (479, 24970), (480, 24994), (481, 25027), (482, 25096), (483, 25099),

Gene: Malinsilva_35 Start: 23269, Stop: 25026, Start Num: 24
Candidate Starts for Malinsilva_35:
(Start: 24 @23269 has 83 MA's), (56, 23404), (74, 23470), (84, 23515), (92, 23551), (132, 23683), (143, 23719), (163, 23740), (179, 23797), (192, 23857), (206, 23911), (214, 23971), (241, 24091), (243, 24094), (264, 24163), (267, 24187), (286, 24280), (289, 24301), (301, 24346), (370, 24676), (389, 24745), (408, 24808), (464, 24979),

Gene: Maminiaina_32 Start: 23915, Stop: 25681, Start Num: 27
Candidate Starts for Maminiaina_32:
(Start: 27 @23915 has 26 MA's), (68, 24080), (74, 24101), (90, 24167), (92, 24179), (94, 24191), (107, 24236), (109, 24245), (112, 24254), (141, 24314), (143, 24323), (161, 24347), (168, 24383), (186, 24476), (194, 24512), (198, 24530), (244, 24755), (249, 24776), (258, 24794), (273, 24884), (286, 24941), (293, 24977), (312, 25064), (333, 25187), (336, 25211), (341, 25226), (355, 25283), (382, 25385), (383, 25388), (411, 25478), (454, 25589), (472, 25664),

Gene: Manu_34 Start: 23361, Stop: 25169, Start Num: 24
Candidate Starts for Manu_34:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (112, 23733), (121, 23757), (141, 23802), (160, 23832), (194, 24000), (198, 24018), (202, 24042), (234, 24204), (244, 24243), (258, 24282), (273, 24372), (310, 24534), (313, 24555), (327, 24642), (336, 24699), (341, 24714), (357, 24777), (378, 24852), (382, 24873), (411, 24966), (425, 25005), (441, 25047), (471, 25146),

Gene: MarQuardt_33 Start: 23278, Stop: 25035, Start Num: 24
Candidate Starts for MarQuardt_33:
(Start: 24 @23278 has 83 MA's), (56, 23413), (74, 23479), (84, 23524), (92, 23560), (132, 23692), (143, 23728), (163, 23749), (179, 23806), (192, 23866), (206, 23920), (214, 23980), (241, 24100), (243, 24103), (264, 24172), (267, 24196), (286, 24289), (289, 24310), (301, 24355), (370, 24685), (389, 24754), (408, 24817), (464, 24988),

Gene: Marchesa_31 Start: 22890, Stop: 24749, Start Num: 23
Candidate Starts for Marchesa_31:
(Start: 23 @22890 has 32 MA's), (55, 23016), (56, 23025), (74, 23091), (79, 23112), (89, 23154), (137, 23310), (149, 23358), (164, 23427), (165, 23433), (171, 23463), (194, 23571), (198, 23589), (202, 23613), (258, 23853), (273, 23943), (299, 24060), (320, 24165), (329, 24231), (333, 24246), (375, 24417), (408, 24522), (426, 24576), (441, 24615), (461, 24669), (465, 24696), (471, 24720),

Gene: Margo_32 Start: 23399, Stop: 25258, Start Num: 23
Candidate Starts for Margo_32:

(Start: 23 @23399 has 32 MA's), (58, 23543), (74, 23600), (79, 23621), (89, 23663), (92, 23681), (141, 23840), (149, 23867), (171, 23972), (175, 23993), (194, 24080), (202, 24122), (258, 24362), (273, 24452), (286, 24509), (320, 24674), (328, 24728), (329, 24740), (333, 24755), (365, 24884), (368, 24896), (383, 24956), (388, 24968), (403, 25013), (408, 25031), (461, 25178), (465, 25205), (472, 25235),

Gene: Marie_33 Start: 23276, Stop: 25033, Start Num: 24
Candidate Starts for Marie_33:
(Start: 24 @23276 has 83 MA's), (56, 23411), (74, 23477), (84, 23522), (92, 23558), (132, 23690), (143, 23726), (163, 23747), (179, 23804), (192, 23864), (206, 23918), (214, 23978), (241, 24098), (243, 24101), (264, 24170), (267, 24194), (286, 24287), (289, 24308), (301, 24353), (370, 24683), (389, 24752), (408, 24815), (464, 24986),

Gene: Marius_34 Start: 23361, Stop: 25169, Start Num: 24
Candidate Starts for Marius_34:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (112, 23733), (121, 23757), (141, 23802), (160, 23832), (194, 24000), (198, 24018), (202, 24042), (234, 24204), (244, 24243), (258, 24282), (273, 24372), (310, 24534), (313, 24555), (327, 24642), (336, 24699), (341, 24714), (357, 24777), (378, 24852), (382, 24873), (411, 24966), (425, 25005), (441, 25047), (471, 25146),

Gene: Maverick_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Maverick_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Maxo_31 Start: 22958, Stop: 24814, Start Num: 26
Candidate Starts for Maxo_31:
(Start: 26 @22958 has 162 MA's), (56, 23084), (Start: 62 @23108 has 1 MA's), (89, 23213), (90, 23219), (97, 23267), (100, 23276), (110, 23318), (132, 23363), (137, 23369), (163, 23474), (164, 23486), (184, 23564), (198, 23633), (240, 23861), (246, 23885), (247, 23888), (255, 23915), (257, 23918), (276, 24023), (282, 24053), (285, 24068), (308, 24158), (316, 24197), (320, 24224), (323, 24242), (336, 24341), (388, 24527), (402, 24578), (419, 24632), (443, 24695), (449, 24704), (471, 24791),

Gene: Mayonnaise_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Mayonnaise_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Mazhar510_31 Start: 22961, Stop: 24817, Start Num: 26
Candidate Starts for Mazhar510_31:
(Start: 26 @22961 has 162 MA's), (56, 23087), (Start: 62 @23111 has 1 MA's), (89, 23216), (90, 23222), (97, 23270), (110, 23321), (132, 23366), (137, 23372), (163, 23477), (164, 23489), (184, 23567), (198, 23636), (240, 23864), (246, 23888), (247, 23891), (255, 23918), (257, 23921), (276,

24026), (280, 24047), (282, 24056), (308, 24161), (316, 24200), (323, 24245), (354, 24407), (355, 24413), (388, 24530), (390, 24536), (402, 24581), (418, 24632), (419, 24635), (443, 24698), (449, 24707), (471, 24794),

Gene: Medusa_31 Start: 22961, Stop: 24817, Start Num: 26
Candidate Starts for Medusa_31:
(Start: 26 @22961 has 162 MA's), (56, 23087), (Start: 62 @23111 has 1 MA's), (89, 23216), (90, 23222), (97, 23270), (100, 23279), (110, 23321), (132, 23366), (137, 23372), (163, 23477), (164, 23489), (184, 23567), (198, 23636), (240, 23864), (246, 23888), (247, 23891), (255, 23918), (257, 23921), (276, 24026), (282, 24056), (285, 24071), (308, 24161), (316, 24200), (323, 24245), (355, 24413), (388, 24530), (390, 24536), (402, 24581), (418, 24632), (419, 24635), (443, 24698), (449, 24707), (471, 24794),

Gene: MeeZee_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for MeeZee_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: MegTheThird_31 Start: 22321, Stop: 24066, Start Num: 30
Candidate Starts for MegTheThird_31:
(Start: 30 @22321 has 12 MA's), (67, 22477), (88, 22558), (99, 22624), (115, 22672), (124, 22696), (144, 22741), (157, 22771), (189, 22885), (220, 23062), (271, 23293), (279, 23332), (305, 23446), (329, 23605), (333, 23620), (379, 23806), (387, 23836), (409, 23917), (419, 23950), (450, 24022), (457, 24052), (459, 24055),

Gene: Melvin_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Melvin_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Methuselah_32 Start: 23360, Stop: 25111, Start Num: 24
Candidate Starts for Methuselah_32:
(Start: 24 @23360 has 83 MA's), (56, 23495), (72, 23552), (74, 23561), (84, 23606), (92, 23642), (120, 23753), (132, 23774), (143, 23810), (163, 23831), (192, 23948), (219, 24086), (241, 24182), (243, 24185), (264, 24254), (267, 24278), (275, 24323), (286, 24371), (301, 24437), (330, 24608), (332, 24614), (343, 24665), (355, 24710), (364, 24740), (378, 24788), (389, 24830), (393, 24845), (394, 24848), (402, 24872), (434, 24974), (435, 24977), (449, 25001),

Gene: Microwolf_33 Start: 23278, Stop: 25035, Start Num: 24
Candidate Starts for Microwolf_33:
(Start: 24 @23278 has 83 MA's), (56, 23413), (74, 23479), (84, 23524), (92, 23560), (132, 23692), (143, 23728), (163, 23749), (179, 23806), (192, 23866), (206, 23920), (214, 23980), (241, 24100), (243, 24103), (264, 24172), (267, 24196), (286, 24289), (289, 24310), (301, 24355), (370, 24685), (389, 24754), (408, 24817), (464, 24988),

Gene: MiculUcigas_31 Start: 22775, Stop: 24997, Start Num: 1
Candidate Starts for MiculUcigas_31:
(Start: 1 @22775 has 10 MA's), (5, 22889), (7, 22904), (42, 23150), (51, 23204), (80, 23315), (87, 23354), (103, 23450), (138, 23552), (194, 23801), (201, 23831), (202, 23843), (236, 24014), (258, 24083), (273, 24182), (297, 24293), (299, 24299), (301, 24305), (310, 24344), (319, 24401), (320, 24404), (329, 24470), (350, 24554), (368, 24626), (399, 24746), (437, 24857), (458, 24908), (461, 24920),

Gene: Miko_34 Start: 24326, Stop: 26263, Start Num: 30
Candidate Starts for Miko_34:
(Start: 30 @24326 has 12 MA's), (39, 24350), (56, 24440), (58, 24449), (74, 24506), (173, 25007), (194, 25097), (198, 25115), (202, 25139), (221, 25247), (244, 25340), (258, 25379), (273, 25469), (287, 25529), (310, 25631), (313, 25652), (336, 25796), (341, 25811), (382, 25967), (390, 25988), (411, 26060), (417, 26078), (431, 26120), (441, 26141), (461, 26201), (472, 26246),

Gene: Millski_30 Start: 22963, Stop: 24819, Start Num: 26
Candidate Starts for Millski_30:
(Start: 26 @22963 has 162 MA's), (56, 23089), (Start: 62 @23113 has 1 MA's), (89, 23218), (90, 23224), (97, 23272), (100, 23281), (110, 23323), (132, 23368), (137, 23374), (163, 23479), (164, 23491), (184, 23569), (198, 23638), (240, 23866), (246, 23890), (247, 23893), (255, 23920), (257, 23923), (276, 24028), (282, 24058), (285, 24073), (308, 24163), (316, 24202), (323, 24247), (355, 24415), (388, 24532), (390, 24538), (402, 24583), (418, 24634), (419, 24637), (443, 24700), (449, 24709), (471, 24796),

Gene: Minispark_29 Start: 22236, Stop: 23978, Start Num: 30
Candidate Starts for Minispark_29:
(Start: 30 @22236 has 12 MA's), (32, 22242), (58, 22359), (67, 22392), (94, 22509), (99, 22539), (115, 22587), (118, 22596), (119, 22599), (157, 22686), (170, 22731), (181, 22758), (197, 22833), (210, 22911), (220, 22977), (248, 23103), (333, 23535), (343, 23580), (376, 23712), (416, 23853), (419, 23865), (433, 23904), (457, 23967),

Gene: Miramae_31 Start: 22903, Stop: 24762, Start Num: 26
Candidate Starts for Miramae_31:
(Start: 26 @22903 has 162 MA's), (44, 22969), (Start: 62 @23053 has 1 MA's), (67, 23071), (79, 23116), (90, 23164), (100, 23221), (110, 23263), (137, 23314), (141, 23335), (152, 23368), (163, 23419), (164, 23431), (178, 23485), (184, 23509), (198, 23578), (240, 23806), (247, 23833), (255, 23860), (257, 23863), (276, 23971), (280, 23992), (282, 24001), (296, 24070), (308, 24106), (316, 24145), (325, 24214), (354, 24352), (388, 24475), (390, 24481), (443, 24643), (449, 24652),

Gene: Misomonster_35 Start: 23363, Stop: 25114, Start Num: 24
Candidate Starts for Misomonster_35:
(Start: 24 @23363 has 83 MA's), (56, 23498), (74, 23564), (84, 23609), (92, 23645), (120, 23756), (132, 23777), (143, 23813), (163, 23834), (192, 23951), (219, 24089), (241, 24185), (243, 24188), (264, 24257), (267, 24281), (275, 24326), (286, 24374), (301, 24440), (330, 24611), (332, 24617), (343, 24668), (355, 24713), (364, 24743), (378, 24791), (389, 24833), (393, 24848), (394, 24851), (402, 24875), (434, 24977), (435, 24980), (449, 25004),

Gene: MissWhite_31 Start: 21856, Stop: 23703, Start Num: 31
Candidate Starts for MissWhite_31:
(Start: 31 @21856 has 37 MA's), (39, 21877), (61, 21985), (90, 22102), (94, 22126), (148, 22306), (166, 22402), (182, 22474), (230, 22711), (251, 22795), (256, 22807), (262, 22828), (269, 22876), (277, 22921), (278, 22927), (281, 22942), (284, 22957), (290, 22990), (293, 23002), (306, 23053), (332, 23221), (343, 23266), (349, 23284), (412, 23512), (425, 23548), (436, 23581),

Gene: MoneyMay_33 Start: 23276, Stop: 25033, Start Num: 24
Candidate Starts for MoneyMay_33:
(Start: 24 @23276 has 83 MA's), (56, 23411), (74, 23477), (84, 23522), (92, 23558), (132, 23690), (143, 23726), (163, 23747), (179, 23804), (192, 23864), (206, 23918), (214, 23978), (241, 24098), (243, 24101), (264, 24170), (267, 24194), (286, 24287), (289, 24308), (301, 24353), (370, 24683), (389, 24752), (408, 24815), (464, 24986),

Gene: Montavir_32 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for Montavir_32:
(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: Morpher26_31 Start: 22972, Stop: 24831, Start Num: 26
Candidate Starts for Morpher26_31:
(18, 22912), (Start: 26 @22972 has 162 MA's), (44, 23038), (53, 23083), (55, 23089), (Start: 62 @23122 has 1 MA's), (67, 23140), (79, 23185), (82, 23191), (83, 23197), (100, 23290), (104, 23305), (132, 23377), (152, 23437), (163, 23488), (164, 23500), (184, 23578), (198, 23647), (216, 23770), (222, 23794), (240, 23875), (250, 23920), (255, 23929), (257, 23932), (280, 24061), (282, 24070), (290, 24112), (296, 24139), (308, 24175), (312, 24202), (316, 24214), (340, 24370), (388, 24544), (390, 24550), (402, 24595), (418, 24646), (419, 24649), (431, 24685), (449, 24721),

Gene: Morrow_31 Start: 22963, Stop: 24819, Start Num: 26
Candidate Starts for Morrow_31:
(Start: 26 @22963 has 162 MA's), (56, 23089), (Start: 62 @23113 has 1 MA's), (89, 23218), (90, 23224), (97, 23272), (100, 23281), (110, 23323), (132, 23368), (137, 23374), (164, 23491), (184, 23569), (198, 23638), (240, 23866), (246, 23890), (247, 23893), (257, 23923), (276, 24028), (282, 24058), (285, 24073), (308, 24163), (316, 24202), (320, 24229), (323, 24247), (336, 24346), (388, 24532), (402, 24583), (419, 24637), (443, 24700), (449, 24709), (471, 24796),

Gene: MuchMore_35 Start: 23269, Stop: 25026, Start Num: 24
Candidate Starts for MuchMore_35:
(Start: 24 @23269 has 83 MA's), (56, 23404), (74, 23470), (84, 23515), (92, 23551), (132, 23683), (143, 23719), (163, 23740), (179, 23797), (192, 23857), (206, 23911), (214, 23971), (241, 24091), (243, 24094), (264, 24163), (267, 24187), (286, 24280), (289, 24301), (301, 24346), (370, 24676), (389, 24745), (408, 24808), (464, 24979),

Gene: Munch_31 Start: 23397, Stop: 25388, Start Num: 16
Candidate Starts for Munch_31:
(Start: 16 @23397 has 11 MA's), (Start: 29 @23508 has 1 MA's), (33, 23517), (47, 23574), (48, 23589), (50, 23607), (52, 23619), (63, 23667), (69, 23685), (70, 23688), (96, 23808), (136, 23922), (139, 23943), (145, 23961), (156, 23994), (188, 24177), (195, 24207), (196, 24210), (229, 24384), (231, 24390), (238, 24414), (239, 24420), (261, 24495), (272, 24558), (283, 24600), (284, 24606), (309, 24729), (318, 24777), (320, 24786), (337, 24903), (339, 24906), (351, 24948), (359, 24990), (369, 25026), (383, 25080), (398, 25131), (400, 25137), (403, 25143), (416, 25185), (451, 25275), (463, 25332), (472, 25371), (476, 25380),

Gene: Mundrea_31 Start: 22930, Stop: 24786, Start Num: 26
Candidate Starts for Mundrea_31:
(Start: 26 @22930 has 162 MA's), (Start: 62 @23080 has 1 MA's), (67, 23098), (71, 23110), (79, 23143), (83, 23155), (100, 23248), (104, 23263), (152, 23395), (163, 23446), (164, 23458), (184,

23536), (198, 23605), (240, 23833), (255, 23887), (257, 23890), (276, 23995), (280, 24016), (282, 24025), (308, 24130), (340, 24325), (355, 24382), (388, 24499), (390, 24505), (449, 24676),

Gene: MyraDee_29 Start: 20768, Stop: 22630, Start Num: 26
Candidate Starts for MyraDee_29:
(Start: 26 @20768 has 162 MA's), (34, 20789), (40, 20810), (57, 20894), (65, 20924), (92, 21038), (105, 21101), (106, 21107), (121, 21152), (184, 21344), (193, 21392), (198, 21413), (216, 21536), (221, 21557), (224, 21581), (255, 21695), (257, 21698), (276, 21806), (280, 21827), (282, 21836), (296, 21905), (308, 21941), (318, 21998), (329, 22085), (331, 22091), (368, 22250), (380, 22289), (382, 22304), (386, 22313), (388, 22319), (405, 22382), (429, 22457), (433, 22472), (438, 22487), (475, 22607),

Gene: Myxus_33 Start: 24377, Stop: 26143, Start Num: 27
Candidate Starts for Myxus_33:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (411, 25940), (454, 26051), (472, 26126),

Gene: NaSiaTalie_31 Start: 22773, Stop: 24995, Start Num: 1
Candidate Starts for NaSiaTalie_31:
(Start: 1 @22773 has 10 MA's), (5, 22887), (6, 22896), (7, 22902), (8, 22923), (13, 22959), (19, 23034), (34, 23124), (38, 23136), (80, 23313), (87, 23352), (103, 23448), (194, 23799), (201, 23829), (202, 23841), (236, 24012), (258, 24081), (273, 24180), (297, 24291), (299, 24297), (301, 24303), (310, 24342), (319, 24399), (320, 24402), (329, 24468), (350, 24552), (368, 24624), (402, 24750), (403, 24753), (437, 24855), (445, 24870), (461, 24918),

Gene: Naji_34 Start: 22559, Stop: 24412, Start Num: 31
Candidate Starts for Naji_34:
(Start: 28 @22553 has 5 MA's), (Start: 31 @22559 has 37 MA's), (58, 22679), (83, 22769), (94, 22829), (105, 22880), (138, 22973), (145, 22997), (146, 23003), (251, 23510), (267, 23579), (284, 23666), (302, 23747), (403, 24191), (407, 24206), (425, 24260), (432, 24284), (436, 24293), (453, 24329),

Gene: Nebs_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Nebs_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (320, 24223), (323, 24241), (336, 24340), (388, 24526), (402, 24577), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Nemo27_31 Start: 22959, Stop: 24815, Start Num: 26
Candidate Starts for Nemo27_31:
(Start: 26 @22959 has 162 MA's), (56, 23085), (Start: 62 @23109 has 1 MA's), (89, 23214), (90, 23220), (97, 23268), (100, 23277), (110, 23319), (132, 23364), (137, 23370), (163, 23475), (164, 23487), (184, 23565), (198, 23634), (240, 23862), (246, 23886), (247, 23889), (255, 23916), (257, 23919), (276, 24024), (280, 24045), (282, 24054), (308, 24159), (316, 24198), (323, 24243), (354, 24405), (355, 24411), (388, 24528), (390, 24534), (402, 24579), (418, 24630), (419, 24633), (443, 24696), (449, 24705), (471, 24792),

Gene: Nergal_25 Start: 20708, Stop: 22390, Start Num: 62
Candidate Starts for Nergal_25:

(Start: 62 @20708 has 1 MA's), (82, 20774), (162, 21074), (227, 21374), (259, 21488), (269, 21542), (272, 21566), (274, 21578), (283, 21617), (295, 21686), (300, 21701), (310, 21749), (332, 21893), (337, 21923), (344, 21944), (348, 21956), (351, 21968), (395, 22127), (402, 22151), (403, 22154), (404, 22157), (418, 22196), (439, 22250), (460, 22310), (469, 22358),

Gene: NicoleTera_35 Start: 24630, Stop: 26411, Start Num: 30
Candidate Starts for NicoleTera_35:
(Start: 30 @24630 has 12 MA's), (56, 24744), (58, 24753), (83, 24840), (169, 25128), (194, 25245), (198, 25263), (202, 25287), (244, 25488), (258, 25527), (310, 25779), (312, 25797), (329, 25905), (336, 25944), (341, 25959), (350, 25989), (382, 26115), (390, 26136), (411, 26208), (431, 26268), (441, 26289), (472, 26394),

Gene: Noella_32 Start: 23374, Stop: 25233, Start Num: 23
Candidate Starts for Noella_32:
(Start: 23 @23374 has 32 MA's), (58, 23518), (63, 23536), (74, 23575), (79, 23596), (89, 23638), (92, 23656), (141, 23815), (149, 23842), (171, 23947), (175, 23968), (194, 24055), (202, 24097), (258, 24337), (273, 24427), (286, 24484), (320, 24649), (328, 24703), (329, 24715), (333, 24730), (365, 24859), (368, 24871), (383, 24931), (388, 24943), (403, 24988), (408, 25006), (461, 25153), (465, 25180), (472, 25210),

Gene: Noelle_31 Start: 23041, Stop: 24900, Start Num: 26
Candidate Starts for Noelle_31:
(Start: 26 @23041 has 162 MA's), (63, 23194), (73, 23227), (74, 23233), (79, 23254), (83, 23266), (98, 23353), (104, 23374), (141, 23473), (163, 23557), (164, 23569), (181, 23635), (184, 23647), (198, 23716), (240, 23944), (250, 23989), (255, 23998), (257, 24001), (280, 24130), (282, 24139), (290, 24181), (296, 24208), (308, 24244), (312, 24271), (316, 24283), (320, 24310), (340, 24439), (355, 24496), (356, 24499), (388, 24613), (390, 24619), (408, 24685), (418, 24715), (445, 24784), (449, 24790),

Gene: Norbert_31 Start: 23373, Stop: 25232, Start Num: 23
Candidate Starts for Norbert_31:
(Start: 23 @23373 has 32 MA's), (58, 23517), (63, 23535), (74, 23574), (79, 23595), (89, 23637), (92, 23655), (141, 23814), (149, 23841), (171, 23946), (175, 23967), (194, 24054), (202, 24096), (258, 24336), (273, 24426), (286, 24483), (320, 24648), (328, 24702), (329, 24714), (333, 24729), (365, 24858), (368, 24870), (383, 24930), (388, 24942), (403, 24987), (408, 25005), (461, 25152), (465, 25179), (472, 25209),

Gene: NorthStar_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for NorthStar_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (178, 23542), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: NotAPhaseMom_31 Start: 22964, Stop: 24820, Start Num: 26
Candidate Starts for NotAPhaseMom_31:
(Start: 26 @22964 has 162 MA's), (56, 23090), (Start: 62 @23114 has 1 MA's), (89, 23219), (90, 23225), (97, 23273), (100, 23282), (110, 23324), (132, 23369), (137, 23375), (163, 23480), (164, 23492), (184, 23570), (198, 23639), (240, 23867), (246, 23891), (247, 23894), (255, 23921), (257, 23924), (276, 24029), (280, 24050), (282, 24059), (308, 24164), (316, 24203), (323, 24248), (354, 24410), (355, 24416), (388, 24533), (390, 24539), (402, 24584), (418, 24635), (443, 24701), (449,

24710), (471, 24797),

Gene: NothingSpecial_33 Start: 24784, Stop: 26571, Start Num: 31
Candidate Starts for NothingSpecial_33:
(Start: 31 @24784 has 37 MA's), (39, 24805), (54, 24883), (56, 24895), (57, 24898), (58, 24904), (60, 24910), (78, 24979), (94, 25057), (163, 25246), (194, 25402), (198, 25420), (202, 25444), (244, 25645), (273, 25774), (279, 25795), (286, 25831), (301, 25897), (313, 25957), (341, 26116), (343, 26122), (357, 26179), (360, 26191), (382, 26275), (411, 26368), (425, 26407), (441, 26449), (460, 26503), (469, 26539),

Gene: Nyxis_31 Start: 22903, Stop: 24762, Start Num: 26
Candidate Starts for Nyxis_31:
(Start: 26 @22903 has 162 MA's), (56, 23029), (Start: 62 @23053 has 1 MA's), (89, 23158), (90, 23164), (97, 23212), (100, 23221), (110, 23263), (132, 23308), (137, 23314), (164, 23431), (184, 23509), (198, 23578), (255, 23860), (257, 23863), (276, 23968), (282, 23998), (308, 24103), (316, 24142), (320, 24169), (323, 24187), (390, 24478), (411, 24556), (415, 24568), (418, 24574), (431, 24613), (443, 24640), (447, 24646), (449, 24649), (471, 24739),

Gene: OKCentral2016_32 Start: 22976, Stop: 24811, Start Num: 26
Candidate Starts for OKCentral2016_32:
(Start: 26 @22976 has 162 MA's), (36, 23009), (41, 23024), (112, 23336), (121, 23360), (125, 23378), (126, 23381), (127, 23384), (128, 23405), (130, 23432), (194, 23645), (198, 23663), (202, 23687), (225, 23822), (228, 23831), (258, 23927), (268, 23984), (273, 24017), (297, 24128), (312, 24197), (329, 24305), (333, 24320), (341, 24359), (343, 24365), (360, 24431), (378, 24494), (382, 24515), (383, 24518), (386, 24524), (390, 24536), (407, 24593), (411, 24608), (414, 24617), (432, 24671), (441, 24689), (461, 24749), (472, 24794), (473, 24797),

Gene: OKaNui_32 Start: 23013, Stop: 24869, Start Num: 26
Candidate Starts for OKaNui_32:
(Start: 26 @23013 has 162 MA's), (56, 23139), (Start: 62 @23163 has 1 MA's), (89, 23268), (90, 23274), (97, 23322), (100, 23331), (110, 23373), (132, 23418), (137, 23424), (163, 23529), (164, 23541), (178, 23595), (184, 23619), (198, 23688), (224, 23856), (240, 23916), (246, 23940), (247, 23943), (250, 23961), (255, 23970), (257, 23973), (276, 24078), (282, 24108), (285, 24123), (308, 24213), (316, 24252), (323, 24297), (355, 24465), (388, 24582), (390, 24588), (402, 24633), (418, 24684), (419, 24687), (443, 24750), (449, 24759), (471, 24846),

Gene: Obama12_32 Start: 23276, Stop: 25132, Start Num: 26
Candidate Starts for Obama12_32:
(Start: 26 @23276 has 162 MA's), (56, 23402), (Start: 62 @23426 has 1 MA's), (89, 23531), (90, 23537), (97, 23585), (110, 23636), (137, 23687), (163, 23792), (164, 23804), (184, 23882), (198, 23951), (224, 24119), (233, 24149), (240, 24179), (246, 24203), (247, 24206), (255, 24233), (257, 24236), (276, 24341), (280, 24362), (282, 24371), (316, 24515), (323, 24560), (354, 24722), (388, 24845), (402, 24896), (443, 25013), (449, 25022), (471, 25109),

Gene: Odin_30 Start: 21523, Stop: 23199, Start Num: 31
Candidate Starts for Odin_30:
(Start: 28 @21517 has 5 MA's), (Start: 31 @21523 has 37 MA's), (58, 21643), (67, 21676), (68, 21679), (75, 21706), (95, 21793), (138, 21880), (164, 21982), (210, 22204), (251, 22390), (277, 22510), (332, 22810), (350, 22885), (354, 22906), (363, 22945), (392, 23035), (426, 23140), (435, 23167), (436, 23170), (442, 23182),

Gene: Ohfah_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Ohfah_31:

(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (320, 24223), (323, 24241), (336, 24340), (388, 24526), (402, 24577), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: OlanP_33 Start: 23541, Stop: 25349, Start Num: 24
Candidate Starts for OlanP_33:
(Start: 24 @23541 has 83 MA's), (56, 23676), (74, 23742), (84, 23787), (92, 23823), (112, 23913), (121, 23937), (141, 23982), (160, 24012), (194, 24180), (198, 24198), (202, 24222), (234, 24384), (244, 24423), (258, 24462), (268, 24519), (273, 24552), (310, 24714), (313, 24735), (327, 24822), (336, 24879), (341, 24894), (357, 24957), (378, 25032), (382, 25053), (411, 25146), (425, 25185), (441, 25227), (471, 25326),

Gene: Ollie_33 Start: 23147, Stop: 24904, Start Num: 24
Candidate Starts for Ollie_33:
(Start: 24 @23147 has 83 MA's), (56, 23282), (74, 23348), (84, 23393), (92, 23429), (132, 23561), (143, 23597), (163, 23618), (179, 23675), (192, 23735), (206, 23789), (214, 23849), (241, 23969), (243, 23972), (264, 24041), (267, 24065), (286, 24158), (289, 24179), (301, 24224), (370, 24554), (389, 24623), (408, 24686), (464, 24857),

Gene: Onglai_32 Start: 22711, Stop: 24477, Start Num: 27
Candidate Starts for Onglai_32:
(Start: 27 @22711 has 26 MA's), (32, 22723), (74, 22897), (94, 22987), (107, 23032), (109, 23041), (143, 23119), (161, 23143), (168, 23179), (194, 23308), (198, 23326), (244, 23551), (249, 23572), (258, 23590), (273, 23680), (286, 23737), (312, 23860), (333, 23983), (341, 24022), (355, 24079), (378, 24160), (382, 24181), (383, 24184), (407, 24259), (411, 24274), (454, 24385), (472, 24460),

Gene: P28Green_33 Start: 23278, Stop: 25035, Start Num: 24
Candidate Starts for P28Green_33:
(Start: 24 @23278 has 83 MA's), (56, 23413), (74, 23479), (84, 23524), (92, 23560), (132, 23692), (143, 23728), (163, 23749), (179, 23806), (192, 23866), (206, 23920), (214, 23980), (241, 24100), (243, 24103), (264, 24172), (267, 24196), (286, 24289), (289, 24310), (301, 24355), (370, 24685), (389, 24754), (408, 24817), (464, 24988),

Gene: PGHhamlin_35 Start: 23269, Stop: 25026, Start Num: 24
Candidate Starts for PGHhamlin_35:
(Start: 24 @23269 has 83 MA's), (56, 23404), (74, 23470), (84, 23515), (92, 23551), (132, 23683), (143, 23719), (163, 23740), (179, 23797), (192, 23857), (206, 23911), (214, 23971), (241, 24091), (243, 24094), (264, 24163), (267, 24187), (286, 24280), (289, 24301), (301, 24346), (370, 24676), (389, 24745), (408, 24808), (464, 24979),

Gene: PackMan_33 Start: 24377, Stop: 26143, Start Num: 27
Candidate Starts for PackMan_33:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (411, 25940), (454, 26051), (472, 26126),

Gene: Palestino_30 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Palestino_30:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (117, 23335), (132, 23365), (137, 23371), (163,

23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Panamaxus_31 Start: 23373, Stop: 25232, Start Num: 23
Candidate Starts for Panamaxus_31:
(Start: 23 @23373 has 32 MA's), (58, 23517), (63, 23535), (74, 23574), (79, 23595), (89, 23637), (92, 23655), (141, 23814), (149, 23841), (171, 23946), (175, 23967), (194, 24054), (202, 24096), (258, 24336), (273, 24426), (286, 24483), (320, 24648), (328, 24702), (329, 24714), (333, 24729), (365, 24858), (368, 24870), (383, 24930), (388, 24942), (403, 24987), (408, 25005), (461, 25152), (465, 25179), (472, 25209),

Gene: Pawn_33 Start: 23361, Stop: 25169, Start Num: 24
Candidate Starts for Pawn_33:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (112, 23733), (121, 23757), (141, 23802), (160, 23832), (194, 24000), (198, 24018), (202, 24042), (234, 24204), (244, 24243), (258, 24282), (273, 24372), (310, 24534), (313, 24555), (327, 24642), (336, 24699), (341, 24714), (357, 24777), (378, 24852), (382, 24873), (411, 24966), (425, 25005), (441, 25047), (471, 25146),

Gene: Peaches_31 Start: 22959, Stop: 24815, Start Num: 26
Candidate Starts for Peaches_31:
(Start: 26 @22959 has 162 MA's), (56, 23085), (Start: 62 @23109 has 1 MA's), (89, 23214), (90, 23220), (97, 23268), (100, 23277), (110, 23319), (132, 23364), (137, 23370), (163, 23475), (164, 23487), (184, 23565), (198, 23634), (240, 23862), (246, 23886), (247, 23889), (255, 23916), (257, 23919), (276, 24024), (282, 24054), (285, 24069), (308, 24159), (316, 24198), (323, 24243), (355, 24411), (388, 24528), (390, 24534), (402, 24579), (418, 24630), (419, 24633), (443, 24696), (449, 24705), (471, 24792),

Gene: Pembroke_33 Start: 23278, Stop: 25035, Start Num: 24
Candidate Starts for Pembroke_33:
(Start: 24 @23278 has 83 MA's), (56, 23413), (74, 23479), (84, 23524), (92, 23560), (132, 23692), (143, 23728), (163, 23749), (179, 23806), (192, 23866), (206, 23920), (214, 23980), (241, 24100), (243, 24103), (264, 24172), (267, 24196), (286, 24289), (289, 24310), (301, 24355), (370, 24685), (389, 24754), (408, 24817), (464, 24988),

Gene: Penny1_33 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for Penny1_33:
(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: Perplexer_31 Start: 22969, Stop: 24828, Start Num: 26
Candidate Starts for Perplexer_31:
(18, 22909), (Start: 26 @22969 has 162 MA's), (44, 23035), (53, 23080), (55, 23086), (Start: 62 @23119 has 1 MA's), (67, 23137), (79, 23182), (82, 23188), (83, 23194), (100, 23287), (104, 23302), (132, 23374), (152, 23434), (163, 23485), (164, 23497), (184, 23575), (198, 23644), (216, 23767), (222, 23791), (240, 23872), (250, 23917), (255, 23926), (257, 23929), (280, 24058), (282, 24067), (290, 24109), (296, 24136), (308, 24172), (312, 24199), (316, 24211), (340, 24367), (388, 24541), (390, 24547), (402, 24592), (418, 24643), (419, 24646), (431, 24682), (449, 24718),

Gene: PeterPeter_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for PeterPeter_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: PetiteSangsue_31 Start: 22972, Stop: 24831, Start Num: 26
Candidate Starts for PetiteSangsue_31:
(18, 22912), (Start: 26 @22972 has 162 MA's), (44, 23038), (53, 23083), (55, 23089), (Start: 62 @23122 has 1 MA's), (67, 23140), (79, 23185), (82, 23191), (83, 23197), (100, 23290), (104, 23305), (132, 23377), (152, 23437), (163, 23488), (164, 23500), (184, 23578), (198, 23647), (216, 23770), (222, 23794), (240, 23875), (250, 23920), (255, 23929), (257, 23932), (280, 24061), (282, 24070), (290, 24112), (296, 24139), (308, 24175), (312, 24202), (316, 24214), (340, 24370), (388, 24544), (390, 24550), (402, 24595), (418, 24646), (419, 24649), (431, 24685), (449, 24721),

Gene: Ph8s_32 Start: 21442, Stop: 23091, Start Num: 31
Candidate Starts for Ph8s_32:
(Start: 31 @21442 has 37 MA's), (56, 21553), (66, 21589), (90, 21688), (94, 21712), (145, 21880), (146, 21886), (277, 22504), (282, 22531), (293, 22585), (312, 22678), (318, 22708), (332, 22804), (350, 22876), (371, 22963), (377, 22972), (392, 23020),

Gene: Phacado_31 Start: 22959, Stop: 24815, Start Num: 26
Candidate Starts for Phacado_31:
(Start: 26 @22959 has 162 MA's), (56, 23085), (Start: 62 @23109 has 1 MA's), (89, 23214), (90, 23220), (97, 23268), (100, 23277), (110, 23319), (132, 23364), (137, 23370), (163, 23475), (164, 23487), (184, 23565), (198, 23634), (240, 23862), (246, 23886), (247, 23889), (255, 23916), (257, 23919), (276, 24024), (280, 24045), (282, 24054), (308, 24159), (316, 24198), (323, 24243), (354, 24405), (355, 24411), (388, 24528), (390, 24534), (402, 24579), (418, 24630), (419, 24633), (443, 24696), (449, 24705), (471, 24792),

Gene: Phaded_35 Start: 25217, Stop: 26992, Start Num: 26
Candidate Starts for Phaded_35:
(21, 25178), (Start: 26 @25217 has 162 MA's), (56, 25328), (58, 25337), (75, 25394), (83, 25421), (100, 25514), (137, 25607), (141, 25628), (143, 25637), (160, 25658), (163, 25670), (187, 25793), (194, 25826), (198, 25844), (202, 25868), (223, 25982), (244, 26069), (258, 26108), (260, 26120), (268, 26165), (310, 26360), (313, 26381), (341, 26540), (343, 26546), (360, 26612), (378, 26675), (382, 26696), (411, 26789), (441, 26870), (454, 26900), (461, 26930), (472, 26975),

Gene: Phaeder_33 Start: 24377, Stop: 26143, Start Num: 27
Candidate Starts for Phaeder_33:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (411, 25940), (454, 26051), (472, 26126),

Gene: Phantastic_31 Start: 22796, Stop: 24658, Start Num: 22
Candidate Starts for Phantastic_31:
(Start: 22 @22796 has 1 MA's), (74, 23000), (83, 23033), (112, 23171), (121, 23195), (133, 23213), (171, 23372), (194, 23480), (200, 23501), (202, 23522), (258, 23762), (268, 23819), (273, 23852), (312, 24032), (320, 24074), (329, 24140), (333, 24155), (375, 24326), (388, 24368), (408, 24431),

(426, 24485), (427, 24488), (441, 24524), (461, 24578), (465, 24605), (471, 24629),

Gene: Phelipe_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Phelipe_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Phighter1804_31 Start: 22935, Stop: 24791, Start Num: 26
Candidate Starts for Phighter1804_31:
(Start: 26 @22935 has 162 MA's), (56, 23061), (Start: 62 @23085 has 1 MA's), (89, 23190), (90, 23196), (97, 23244), (100, 23253), (110, 23295), (132, 23340), (137, 23346), (163, 23451), (164, 23463), (180, 23526), (184, 23541), (198, 23610), (224, 23778), (240, 23838), (247, 23865), (255, 23892), (257, 23895), (276, 24000), (280, 24021), (282, 24030), (308, 24135), (323, 24219), (336, 24318), (388, 24504), (390, 24510), (402, 24555), (418, 24606), (419, 24609), (443, 24672), (449, 24681), (471, 24768),

Gene: PhishRPhriends_32 Start: 22545, Stop: 24353, Start Num: 24
Candidate Starts for PhishRPhriends_32:
(Start: 24 @22545 has 83 MA's), (56, 22680), (74, 22746), (84, 22791), (92, 22827), (112, 22917), (121, 22941), (141, 22986), (160, 23016), (194, 23184), (198, 23202), (202, 23226), (234, 23388), (244, 23427), (258, 23466), (273, 23556), (310, 23718), (313, 23739), (327, 23826), (341, 23898), (357, 23961), (378, 24036), (382, 24057), (411, 24150), (425, 24189), (441, 24231), (471, 24330),

Gene: Phoebe_33 Start: 23275, Stop: 25032, Start Num: 24
Candidate Starts for Phoebe_33:
(Start: 24 @23275 has 83 MA's), (56, 23410), (74, 23476), (84, 23521), (92, 23557), (132, 23689), (143, 23725), (163, 23746), (179, 23803), (192, 23863), (206, 23917), (214, 23977), (241, 24097), (243, 24100), (264, 24169), (267, 24193), (286, 24286), (289, 24307), (301, 24352), (370, 24682), (389, 24751), (408, 24814), (464, 24985),

Gene: Phonnegut_33 Start: 24410, Stop: 26176, Start Num: 27
Candidate Starts for Phonnegut_33:
(Start: 27 @24410 has 26 MA's), (32, 24422), (74, 24596), (94, 24686), (107, 24731), (109, 24740), (143, 24818), (161, 24842), (168, 24878), (194, 25007), (198, 25025), (244, 25250), (249, 25271), (258, 25289), (273, 25379), (286, 25436), (312, 25559), (333, 25682), (341, 25721), (355, 25778), (378, 25859), (382, 25880), (383, 25883), (407, 25958), (411, 25973), (454, 26084), (472, 26159),

Gene: Phontbonne_31 Start: 22904, Stop: 24763, Start Num: 26
Candidate Starts for Phontbonne_31:
(Start: 26 @22904 has 162 MA's), (56, 23030), (Start: 62 @23054 has 1 MA's), (89, 23159), (90, 23165), (97, 23213), (100, 23222), (110, 23264), (132, 23309), (137, 23315), (164, 23432), (184, 23510), (198, 23579), (255, 23861), (257, 23864), (276, 23969), (282, 23999), (308, 24104), (316, 24143), (320, 24170), (323, 24188), (390, 24479), (411, 24557), (415, 24569), (418, 24575), (431, 24614), (443, 24641), (447, 24647), (471, 24740),

Gene: Phoxy_33 Start: 23361, Stop: 25112, Start Num: 24
Candidate Starts for Phoxy_33:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (120, 23754), (132, 23775), (143, 23811), (163, 23832), (192, 23949), (219, 24087), (241, 24183), (243, 24186),

(264, 24255), (267, 24279), (275, 24324), (286, 24372), (301, 24438), (330, 24609), (332, 24615), (343, 24666), (355, 24711), (364, 24741), (378, 24789), (389, 24831), (393, 24846), (394, 24849), (402, 24873), (434, 24975), (435, 24978), (449, 25002),

Gene: Phranny_34 Start: 23353, Stop: 25161, Start Num: 24
Candidate Starts for Phranny_34:
(Start: 24 @23353 has 83 MA's), (56, 23488), (74, 23554), (84, 23599), (85, 23602), (121, 23749), (141, 23794), (160, 23824), (194, 23992), (198, 24010), (202, 24034), (234, 24196), (244, 24235), (258, 24274), (273, 24364), (310, 24526), (313, 24547), (327, 24634), (341, 24706), (357, 24769), (378, 24844), (382, 24865), (411, 24958), (425, 24997), (441, 25039), (471, 25138),

Gene: Pioneer_33 Start: 24410, Stop: 26176, Start Num: 27
Candidate Starts for Pioneer_33:
(Start: 27 @24410 has 26 MA's), (32, 24422), (74, 24596), (94, 24686), (107, 24731), (109, 24740), (143, 24818), (161, 24842), (168, 24878), (194, 25007), (198, 25025), (244, 25250), (249, 25271), (258, 25289), (273, 25379), (286, 25436), (312, 25559), (333, 25682), (341, 25721), (355, 25778), (378, 25859), (382, 25880), (383, 25883), (407, 25958), (411, 25973), (454, 26084), (472, 26159),

Gene: Pipcraft_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Pipcraft_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Pistachio_32 Start: 22385, Stop: 24244, Start Num: 23
Candidate Starts for Pistachio_32:
(Start: 23 @22385 has 32 MA's), (58, 22529), (Start: 62 @22544 has 1 MA's), (74, 22586), (99, 22709), (112, 22757), (133, 22799), (137, 22805), (141, 22826), (194, 23066), (201, 23096), (209, 23144), (234, 23270), (244, 23309), (258, 23348), (268, 23405), (273, 23438), (310, 23600), (311, 23603), (320, 23660), (329, 23726), (333, 23741), (383, 23942), (425, 24068), (426, 24071), (458, 24152), (461, 24164), (465, 24191), (472, 24221),

Gene: Pocahontas_32 Start: 23370, Stop: 25229, Start Num: 23
Candidate Starts for Pocahontas_32:
(Start: 23 @23370 has 32 MA's), (58, 23514), (63, 23532), (74, 23571), (79, 23592), (89, 23634), (92, 23652), (141, 23811), (149, 23838), (171, 23943), (175, 23964), (194, 24051), (202, 24093), (258, 24333), (273, 24423), (286, 24480), (320, 24645), (328, 24699), (329, 24711), (333, 24726), (365, 24855), (368, 24867), (383, 24927), (388, 24939), (403, 24984), (408, 25002), (461, 25149), (465, 25176), (472, 25206),

Gene: Polymorphads_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Polymorphads_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (320, 24223), (323, 24241), (336, 24340), (388, 24526), (402, 24577), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Pomar16_34 Start: 22600, Stop: 24453, Start Num: 31
Candidate Starts for Pomar16_34:

(Start: 28 @22594 has 5 MA's), (Start: 31 @22600 has 37 MA's), (58, 22720), (83, 22810), (94, 22870), (97, 22894), (105, 22921), (138, 23014), (145, 23038), (146, 23044), (251, 23551), (267, 23620), (302, 23788), (332, 23971), (403, 24232), (407, 24247), (425, 24301), (428, 24310), (432, 24325), (436, 24334), (453, 24370),

Gene: Popcicle_32 Start: 23370, Stop: 25229, Start Num: 23
Candidate Starts for Popcicle_32:
(Start: 23 @23370 has 32 MA's), (58, 23514), (63, 23532), (74, 23571), (79, 23592), (89, 23634), (92, 23652), (141, 23811), (149, 23838), (171, 23943), (175, 23964), (194, 24051), (202, 24093), (258, 24333), (273, 24423), (286, 24480), (320, 24645), (328, 24699), (329, 24711), (333, 24726), (365, 24855), (368, 24867), (383, 24927), (388, 24939), (403, 24984), (408, 25002), (461, 25149), (465, 25176), (472, 25206),

Gene: PotatoSplit_34 Start: 23277, Stop: 25034, Start Num: 24
Candidate Starts for PotatoSplit_34:
(Start: 24 @23277 has 83 MA's), (56, 23412), (74, 23478), (84, 23523), (92, 23559), (132, 23691), (143, 23727), (163, 23748), (179, 23805), (192, 23865), (206, 23919), (214, 23979), (241, 24099), (243, 24102), (264, 24171), (267, 24195), (286, 24288), (289, 24309), (301, 24354), (370, 24684), (389, 24753), (408, 24816), (464, 24987),

Gene: Priya_33 Start: 24444, Stop: 26210, Start Num: 27
Candidate Starts for Priya_33:
(Start: 27 @24444 has 26 MA's), (74, 24630), (94, 24720), (107, 24765), (109, 24774), (143, 24852), (161, 24876), (168, 24912), (194, 25041), (198, 25059), (244, 25284), (249, 25305), (258, 25323), (273, 25413), (286, 25470), (312, 25593), (333, 25716), (341, 25755), (355, 25812), (378, 25893), (382, 25914), (383, 25917), (411, 26007), (454, 26118), (472, 26193),

Gene: Prudy_34 Start: 25130, Stop: 26905, Start Num: 31
Candidate Starts for Prudy_34:
(17, 25031), (Start: 31 @25130 has 37 MA's), (56, 25241), (58, 25250), (90, 25370), (92, 25382), (94, 25394), (121, 25496), (163, 25583), (185, 25688), (187, 25706), (194, 25739), (198, 25757), (202, 25781), (244, 25982), (258, 26021), (268, 26078), (273, 26111), (280, 26141), (312, 26291), (329, 26399), (333, 26414), (341, 26453), (382, 26609), (390, 26630), (411, 26702), (441, 26783), (461, 26843), (472, 26888),

Gene: Pukovnik_33 Start: 24251, Stop: 26089, Start Num: 31
Candidate Starts for Pukovnik_33:
(Start: 31 @24251 has 37 MA's), (39, 24272), (56, 24362), (58, 24371), (75, 24428), (83, 24455), (100, 24548), (112, 24593), (149, 24689), (198, 24905), (216, 25028), (218, 25037), (240, 25133), (255, 25187), (257, 25190), (276, 25298), (282, 25328), (296, 25397), (308, 25433), (311, 25445), (316, 25472), (388, 25802), (402, 25853), (411, 25886), (418, 25904), (419, 25907), (443, 25970),

Gene: Pumbaa_31 Start: 22935, Stop: 24791, Start Num: 26
Candidate Starts for Pumbaa_31:
(Start: 26 @22935 has 162 MA's), (56, 23061), (Start: 62 @23085 has 1 MA's), (90, 23196), (97, 23244), (99, 23250), (100, 23253), (110, 23295), (137, 23346), (163, 23451), (164, 23463), (184, 23541), (198, 23610), (224, 23778), (233, 23808), (240, 23838), (247, 23865), (255, 23892), (257, 23895), (276, 24000), (280, 24021), (282, 24030), (308, 24135), (316, 24174), (320, 24201), (323, 24219), (324, 24222), (340, 24330), (355, 24387), (388, 24504), (390, 24510), (443, 24672), (449, 24681),

Gene: Puppy_32 Start: 22455, Stop: 24314, Start Num: 23
Candidate Starts for Puppy_32:

(Start: 23 @22455 has 32 MA's), (58, 22599), (Start: 62 @22614 has 1 MA's), (74, 22656), (99, 22779), (112, 22827), (133, 22869), (137, 22875), (141, 22896), (194, 23136), (201, 23166), (209, 23214), (234, 23340), (244, 23379), (258, 23418), (268, 23475), (273, 23508), (310, 23670), (311, 23673), (320, 23730), (329, 23796), (333, 23811), (383, 24012), (425, 24138), (426, 24141), (458, 24222), (461, 24234), (465, 24261), (472, 24291),

Gene: PurpleHaze_33 Start: 23360, Stop: 25168, Start Num: 24
Candidate Starts for PurpleHaze_33:
(Start: 24 @23360 has 83 MA's), (56, 23495), (74, 23561), (84, 23606), (92, 23642), (112, 23732), (121, 23756), (141, 23801), (160, 23831), (194, 23999), (198, 24017), (202, 24041), (234, 24203), (244, 24242), (258, 24281), (273, 24371), (310, 24533), (313, 24554), (327, 24641), (336, 24698), (341, 24713), (357, 24776), (378, 24851), (382, 24872), (411, 24965), (425, 25004), (441, 25046), (471, 25145),

Gene: Qobbit_33 Start: 24407, Stop: 26173, Start Num: 27
Candidate Starts for Qobbit_33:
(Start: 27 @24407 has 26 MA's), (74, 24593), (94, 24683), (107, 24728), (109, 24737), (143, 24815), (161, 24839), (168, 24875), (194, 25004), (198, 25022), (244, 25247), (249, 25268), (258, 25286), (273, 25376), (286, 25433), (312, 25556), (333, 25679), (341, 25718), (355, 25775), (378, 25856), (382, 25877), (383, 25880), (411, 25970), (454, 26081), (472, 26156),

Gene: QuinnKiro_31 Start: 23373, Stop: 25232, Start Num: 23
Candidate Starts for QuinnKiro_31:
(Start: 23 @23373 has 32 MA's), (58, 23517), (63, 23535), (74, 23574), (79, 23595), (89, 23637), (92, 23655), (141, 23814), (149, 23841), (171, 23946), (175, 23967), (194, 24054), (202, 24096), (249, 24318), (258, 24336), (273, 24426), (286, 24483), (320, 24648), (328, 24702), (329, 24714), (333, 24729), (365, 24858), (368, 24870), (383, 24930), (388, 24942), (403, 24987), (408, 25005), (461, 25152), (465, 25179), (472, 25209),

Gene: Quokka_29 Start: 21646, Stop: 23397, Start Num: 31
Candidate Starts for Quokka_29:
(Start: 31 @21646 has 37 MA's), (39, 21667), (58, 21766), (Start: 62 @21781 has 1 MA's), (83, 21856), (94, 21916), (123, 22027), (138, 22060), (145, 22084), (146, 22090), (161, 22162), (173, 22237), (183, 22270), (188, 22300), (251, 22588), (277, 22708), (290, 22777), (332, 23008), (350, 23083), (353, 23095), (354, 23104), (363, 23143), (426, 23338), (435, 23365), (436, 23368), (442, 23380),

Gene: Rachaly_34 Start: 24354, Stop: 26138, Start Num: 30
Candidate Starts for Rachaly_34:
(Start: 30 @24354 has 12 MA's), (39, 24378), (56, 24468), (58, 24477), (74, 24534), (173, 24882), (175, 24885), (194, 24972), (198, 24990), (202, 25014), (221, 25122), (244, 25215), (249, 25236), (258, 25254), (260, 25266), (273, 25344), (287, 25404), (310, 25506), (313, 25527), (336, 25671), (341, 25686), (382, 25842), (390, 25863), (411, 25935), (417, 25953), (431, 25995), (441, 26016), (461, 26076), (472, 26121),

Gene: Rahalelujah_30 Start: 22236, Stop: 23978, Start Num: 30
Candidate Starts for Rahalelujah_30:
(Start: 30 @22236 has 12 MA's), (32, 22242), (58, 22359), (67, 22392), (94, 22509), (99, 22539), (115, 22587), (118, 22596), (119, 22599), (157, 22686), (170, 22731), (181, 22758), (197, 22833), (210, 22911), (220, 22977), (248, 23103), (333, 23535), (343, 23580), (376, 23712), (416, 23853), (419, 23865), (433, 23904), (457, 23967),

Gene: Reba_34 Start: 23026, Stop: 24834, Start Num: 24
Candidate Starts for Reba_34:

(Start: 24 @23026 has 83 MA's), (56, 23161), (74, 23227), (84, 23272), (85, 23275), (121, 23422), (141, 23467), (160, 23497), (194, 23665), (198, 23683), (202, 23707), (234, 23869), (244, 23908), (258, 23947), (273, 24037), (310, 24199), (313, 24220), (327, 24307), (341, 24379), (357, 24442), (378, 24517), (382, 24538), (411, 24631), (425, 24670), (441, 24712), (471, 24811),

Gene: Rebeuca_34 Start: 23648, Stop: 25483, Start Num: 26
Candidate Starts for Rebeuca_34:
(Start: 26 @23648 has 162 MA's), (36, 23681), (79, 23858), (125, 24050), (127, 24056), (128, 24077), (130, 24104), (187, 24284), (194, 24317), (198, 24335), (202, 24359), (221, 24467), (258, 24599), (268, 24656), (273, 24689), (286, 24746), (297, 24800), (312, 24869), (329, 24977), (333, 24992), (336, 25016), (341, 25031), (373, 25148), (378, 25166), (382, 25187), (383, 25190), (407, 25265), (411, 25280), (441, 25361), (454, 25391), (461, 25421), (472, 25466), (473, 25469),

Gene: RedRock_35 Start: 25191, Stop: 26969, Start Num: 31
Candidate Starts for RedRock_35:
(Start: 31 @25191 has 37 MA's), (56, 25302), (58, 25311), (68, 25344), (83, 25398), (90, 25434), (92, 25446), (94, 25458), (141, 25605), (143, 25614), (160, 25635), (163, 25647), (173, 25713), (190, 25782), (194, 25803), (198, 25821), (202, 25845), (219, 25944), (221, 25953), (258, 26085), (268, 26142), (273, 26175), (286, 26232), (297, 26286), (312, 26355), (341, 26517), (355, 26571), (378, 26652), (382, 26673), (390, 26694), (411, 26766), (441, 26847),

Gene: Relief_31 Start: 22958, Stop: 24814, Start Num: 26
Candidate Starts for Relief_31:
(Start: 26 @22958 has 162 MA's), (56, 23084), (Start: 62 @23108 has 1 MA's), (89, 23213), (90, 23219), (97, 23267), (110, 23318), (132, 23363), (137, 23369), (163, 23474), (164, 23486), (184, 23564), (198, 23633), (240, 23861), (246, 23885), (247, 23888), (255, 23915), (257, 23918), (276, 24023), (282, 24053), (285, 24068), (308, 24158), (316, 24197), (323, 24242), (355, 24410), (388, 24527), (390, 24533), (402, 24578), (418, 24629), (419, 24632), (443, 24695), (449, 24704), (471, 24791),

Gene: ResDef_32 Start: 23373, Stop: 25232, Start Num: 23
Candidate Starts for ResDef_32:
(Start: 23 @23373 has 32 MA's), (58, 23517), (63, 23535), (74, 23574), (79, 23595), (89, 23637), (92, 23655), (141, 23814), (149, 23841), (175, 23967), (194, 24054), (202, 24096), (258, 24336), (273, 24426), (286, 24483), (320, 24648), (328, 24702), (329, 24714), (333, 24729), (365, 24858), (368, 24870), (383, 24930), (388, 24942), (403, 24987), (408, 25005), (461, 25152), (465, 25179), (472, 25209),

Gene: RhynO_34 Start: 23623, Stop: 25455, Start Num: 26
Candidate Starts for RhynO_34:
(Start: 26 @23623 has 162 MA's), (36, 23656), (73, 23806), (79, 23833), (106, 23962), (121, 24007), (126, 24028), (127, 24031), (194, 24292), (198, 24310), (258, 24571), (268, 24628), (273, 24661), (297, 24772), (312, 24841), (328, 24937), (329, 24949), (333, 24964), (336, 24988), (341, 25003), (343, 25009), (350, 25033), (360, 25075), (373, 25120), (378, 25138), (383, 25162), (407, 25237), (411, 25252), (414, 25261), (425, 25291), (441, 25333), (472, 25438), (473, 25441),

Gene: RockieBear_30 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for RockieBear_30:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449,

24706), (471, 24793),

Gene: Rockstar_31 Start: 22769, Stop: 24628, Start Num: 23
Candidate Starts for Rockstar_31:
(Start: 23 @22769 has 32 MA's), (55, 22895), (58, 22913), (Start: 62 @22928 has 1 MA's), (74, 22970), (89, 23033), (137, 23189), (141, 23210), (149, 23237), (165, 23312), (175, 23363), (194, 23450), (198, 23468), (202, 23492), (258, 23732), (268, 23789), (273, 23822), (293, 23915), (299, 23939), (320, 24044), (329, 24110), (333, 24125), (375, 24296), (408, 24401), (426, 24455), (441, 24494), (461, 24548), (465, 24575), (471, 24599),

Gene: Roimos_31 Start: 22808, Stop: 24667, Start Num: 23
Candidate Starts for Roimos_31:
(Start: 23 @22808 has 32 MA's), (55, 22934), (56, 22943), (74, 23009), (79, 23030), (89, 23072), (137, 23228), (149, 23276), (164, 23345), (165, 23351), (171, 23381), (194, 23489), (198, 23507), (202, 23531), (258, 23771), (273, 23861), (299, 23978), (320, 24083), (329, 24149), (333, 24164), (375, 24335), (408, 24440), (426, 24494), (441, 24533), (461, 24587), (465, 24614), (471, 24638),

Gene: Romney_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Romney_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Roosevelt_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Roosevelt_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Rosa24_30 Start: 22935, Stop: 24791, Start Num: 26
Candidate Starts for Rosa24_30:
(Start: 26 @22935 has 162 MA's), (56, 23061), (Start: 62 @23085 has 1 MA's), (97, 23244), (100, 23253), (110, 23295), (132, 23340), (137, 23346), (163, 23451), (164, 23463), (184, 23541), (198, 23610), (224, 23778), (233, 23808), (240, 23838), (247, 23865), (255, 23892), (257, 23895), (276, 24000), (280, 24021), (282, 24030), (308, 24135), (316, 24174), (323, 24219), (354, 24381), (388, 24504), (390, 24510), (443, 24672), (449, 24681),

Gene: Rowdy_37 Start: 23534, Stop: 25366, Start Num: 26
Candidate Starts for Rowdy_37:
(Start: 26 @23534 has 162 MA's), (36, 23567), (73, 23717), (79, 23744), (121, 23918), (126, 23939), (127, 23942), (194, 24203), (198, 24221), (258, 24482), (268, 24539), (273, 24572), (297, 24683), (312, 24752), (328, 24848), (329, 24860), (333, 24875), (336, 24899), (341, 24914), (343, 24920), (350, 24944), (360, 24986), (373, 25031), (378, 25049), (383, 25073), (407, 25148), (411, 25163), (414, 25172), (425, 25202), (441, 25244), (472, 25349), (473, 25352),

Gene: Ruin_31 Start: 22956, Stop: 24812, Start Num: 26
Candidate Starts for Ruin_31:

(Start: 26 @22956 has 162 MA's), (56, 23082), (Start: 62 @23106 has 1 MA's), (89, 23211), (90, 23217), (97, 23265), (100, 23274), (110, 23316), (132, 23361), (137, 23367), (163, 23472), (164, 23484), (184, 23562), (198, 23631), (240, 23859), (246, 23883), (247, 23886), (255, 23913), (257, 23916), (276, 24021), (282, 24051), (285, 24066), (308, 24156), (316, 24195), (323, 24240), (355, 24408), (388, 24525), (390, 24531), (402, 24576), (418, 24627), (419, 24630), (443, 24693), (449, 24702), (471, 24789),

Gene: Rummer_33 Start: 23361, Stop: 25112, Start Num: 24
Candidate Starts for Rummer_33:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (120, 23754), (132, 23775), (143, 23811), (163, 23832), (192, 23949), (219, 24087), (241, 24183), (243, 24186), (264, 24255), (267, 24279), (275, 24324), (286, 24372), (301, 24438), (330, 24609), (332, 24615), (343, 24666), (355, 24711), (364, 24741), (378, 24789), (389, 24831), (393, 24846), (394, 24849), (402, 24873), (434, 24975), (435, 24978), (449, 25002),

Gene: RyeScarlet_34 Start: 24381, Stop: 26147, Start Num: 27
Candidate Starts for RyeScarlet_34:
(Start: 27 @24381 has 26 MA's), (32, 24393), (74, 24567), (94, 24657), (107, 24702), (109, 24711), (143, 24789), (161, 24813), (168, 24849), (194, 24978), (198, 24996), (244, 25221), (249, 25242), (258, 25260), (273, 25350), (286, 25407), (312, 25530), (333, 25653), (341, 25692), (355, 25749), (378, 25830), (382, 25851), (383, 25854), (407, 25929), (411, 25944), (454, 26055), (472, 26130),

Gene: Sabertooth_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Sabertooth_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Sabia_33 Start: 23270, Stop: 25027, Start Num: 24
Candidate Starts for Sabia_33:
(Start: 24 @23270 has 83 MA's), (56, 23405), (74, 23471), (84, 23516), (92, 23552), (132, 23684), (143, 23720), (163, 23741), (179, 23798), (192, 23858), (206, 23912), (214, 23972), (241, 24092), (243, 24095), (264, 24164), (267, 24188), (286, 24281), (289, 24302), (301, 24347), (370, 24677), (389, 24746), (408, 24809), (464, 24980),

Gene: Sabinator_33 Start: 23275, Stop: 25032, Start Num: 24
Candidate Starts for Sabinator_33:
(Start: 24 @23275 has 83 MA's), (56, 23410), (74, 23476), (84, 23521), (92, 23557), (132, 23689), (143, 23725), (163, 23746), (179, 23803), (192, 23863), (206, 23917), (214, 23977), (241, 24097), (243, 24100), (264, 24169), (267, 24193), (286, 24286), (289, 24307), (301, 24352), (370, 24682), (389, 24751), (408, 24814), (464, 24985),

Gene: Sachima_31 Start: 24389, Stop: 26143, Start Num: 32
Candidate Starts for Sachima_31:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (411, 25940), (454, 26051), (472, 26126),

Gene: SaturnRing_31 Start: 22838, Stop: 24697, Start Num: 23

Candidate Starts for SaturnRing_31:
(Start: 23 @22838 has 32 MA's), (58, 22982), (Start: 62 @22997 has 1 MA's), (74, 23039), (99, 23162), (112, 23210), (133, 23252), (137, 23258), (141, 23279), (194, 23519), (201, 23549), (209, 23597), (234, 23723), (244, 23762), (258, 23801), (268, 23858), (273, 23891), (310, 24053), (311, 24056), (320, 24113), (329, 24179), (333, 24194), (383, 24395), (425, 24521), (426, 24524), (458, 24605), (461, 24617), (465, 24644), (472, 24674),

Gene: Scamp_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Scamp_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Scherzo_33 Start: 24410, Stop: 26176, Start Num: 27
Candidate Starts for Scherzo_33:
(Start: 27 @24410 has 26 MA's), (32, 24422), (74, 24596), (94, 24686), (107, 24731), (109, 24740), (143, 24818), (161, 24842), (168, 24878), (194, 25007), (198, 25025), (244, 25250), (249, 25271), (258, 25289), (273, 25379), (286, 25436), (312, 25559), (333, 25682), (341, 25721), (355, 25778), (378, 25859), (382, 25880), (383, 25883), (411, 25973), (454, 26084), (472, 26159),

Gene: Scout_31 Start: 22139, Stop: 23998, Start Num: 23
Candidate Starts for Scout_31:
(Start: 23 @22139 has 32 MA's), (55, 22265), (56, 22274), (74, 22340), (79, 22361), (89, 22403), (137, 22559), (149, 22607), (164, 22676), (165, 22682), (171, 22712), (194, 22820), (198, 22838), (202, 22862), (258, 23102), (273, 23192), (299, 23309), (320, 23414), (329, 23480), (333, 23495), (375, 23666), (408, 23771), (426, 23825), (441, 23864), (461, 23918), (465, 23945), (471, 23969),

Gene: SenorClean_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for SenorClean_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Serenity_30 Start: 21771, Stop: 23522, Start Num: 31
Candidate Starts for Serenity_30:
(Start: 31 @21771 has 37 MA's), (39, 21792), (58, 21891), (Start: 62 @21906 has 1 MA's), (83, 21981), (94, 22041), (123, 22152), (138, 22185), (145, 22209), (146, 22215), (161, 22287), (183, 22395), (208, 22512), (251, 22713), (277, 22833), (290, 22902), (332, 23133), (350, 23208), (353, 23220), (354, 23229), (363, 23268), (426, 23463), (435, 23490), (436, 23493), (442, 23505),

Gene: Shaka_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Shaka_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Shapes_37 Start: 23534, Stop: 25366, Start Num: 26
Candidate Starts for Shapes_37:
(Start: 26 @23534 has 162 MA's), (36, 23567), (73, 23717), (79, 23744), (121, 23918), (126, 23939), (127, 23942), (194, 24203), (198, 24221), (258, 24482), (268, 24539), (273, 24572), (297, 24683), (312, 24752), (328, 24848), (329, 24860), (333, 24875), (336, 24899), (341, 24914), (343, 24920), (350, 24944), (360, 24986), (373, 25031), (378, 25049), (383, 25073), (407, 25148), (411, 25163), (414, 25172), (425, 25202), (441, 25244), (472, 25349), (473, 25352),

Gene: SheaKeira_31 Start: 22351, Stop: 24009, Start Num: 30
Candidate Starts for SheaKeira_31:
(Start: 30 @22351 has 12 MA's), (54, 22453), (67, 22507), (74, 22531), (75, 22537), (93, 22618), (94, 22624), (99, 22654), (115, 22702), (124, 22726), (157, 22801), (220, 23092), (268, 23308), (279, 23362), (305, 23476), (307, 23488), (329, 23635), (333, 23650), (413, 23875), (436, 23938),

Gene: SheldonCooper_32 Start: 23275, Stop: 25131, Start Num: 26
Candidate Starts for SheldonCooper_32:
(Start: 26 @23275 has 162 MA's), (56, 23401), (Start: 62 @23425 has 1 MA's), (89, 23530), (90, 23536), (97, 23584), (110, 23635), (137, 23686), (163, 23791), (164, 23803), (184, 23881), (198, 23950), (224, 24118), (233, 24148), (240, 24178), (246, 24202), (247, 24205), (255, 24232), (257, 24235), (276, 24340), (280, 24361), (282, 24370), (316, 24514), (323, 24559), (354, 24721), (388, 24844), (402, 24895), (443, 25012), (449, 25021), (471, 25108),

Gene: Shygu2_31 Start: 22966, Stop: 24825, Start Num: 26
Candidate Starts for Shygu2_31:
(18, 22903), (Start: 26 @22966 has 162 MA's), (41, 23014), (44, 23032), (Start: 62 @23116 has 1 MA's), (67, 23134), (79, 23179), (83, 23191), (132, 23371), (152, 23431), (163, 23482), (164, 23494), (184, 23572), (198, 23641), (240, 23869), (247, 23896), (255, 23923), (257, 23926), (276, 24034), (280, 24055), (282, 24064), (296, 24133), (308, 24169), (316, 24208), (354, 24415), (388, 24538), (402, 24589), (443, 24706), (449, 24715),

Gene: Skipitt_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for Skipitt_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Sknot_31 Start: 22776, Stop: 24998, Start Num: 1
Candidate Starts for Sknot_31:
(Start: 1 @22776 has 10 MA's), (5, 22890), (7, 22905), (19, 23037), (42, 23151), (45, 23172), (51, 23205), (80, 23316), (87, 23355), (103, 23451), (138, 23553), (194, 23802), (201, 23832), (202, 23844), (236, 24015), (258, 24084), (273, 24183), (297, 24294), (299, 24300), (301, 24306), (310, 24345), (319, 24402), (320, 24405), (329, 24471), (350, 24555), (368, 24627), (399, 24747), (437, 24858), (458, 24909), (461, 24921),

Gene: Snickers_33 Start: 23251, Stop: 25008, Start Num: 24
Candidate Starts for Snickers_33:
(Start: 24 @23251 has 83 MA's), (56, 23386), (74, 23452), (84, 23497), (92, 23533), (132, 23665), (143, 23701), (163, 23722), (179, 23779), (192, 23839), (206, 23893), (214, 23953), (241, 24073), (243, 24076), (264, 24145), (267, 24169), (286, 24262), (289, 24283), (301, 24328), (370, 24658),

(389, 24727), (408, 24790), (464, 24961),

Gene: SoYo_33 Start: 23188, Stop: 24945, Start Num: 24
Candidate Starts for SoYo_33:
(Start: 24 @23188 has 83 MA's), (56, 23323), (74, 23389), (84, 23434), (92, 23470), (132, 23602), (143, 23638), (163, 23659), (179, 23716), (192, 23776), (206, 23830), (214, 23890), (241, 24010), (243, 24013), (264, 24082), (267, 24106), (286, 24199), (289, 24220), (301, 24265), (370, 24595), (389, 24664), (408, 24727), (464, 24898),

Gene: SoilDragon_33 Start: 22965, Stop: 24770, Start Num: 24
Candidate Starts for SoilDragon_33:
(Start: 24 @22965 has 83 MA's), (56, 23100), (74, 23166), (84, 23211), (92, 23247), (107, 23319), (121, 23361), (141, 23406), (160, 23436), (194, 23604), (198, 23622), (202, 23646), (226, 23784), (234, 23808), (244, 23847), (258, 23886), (273, 23976), (310, 24138), (313, 24159), (327, 24246), (341, 24318), (350, 24348), (360, 24390), (378, 24453), (383, 24477), (407, 24552), (411, 24567), (425, 24606), (441, 24648), (472, 24753),

Gene: Soshari_35 Start: 23360, Stop: 25111, Start Num: 24
Candidate Starts for Soshari_35:
(Start: 24 @23360 has 83 MA's), (56, 23495), (72, 23552), (74, 23561), (84, 23606), (92, 23642), (120, 23753), (132, 23774), (143, 23810), (163, 23831), (192, 23948), (219, 24086), (241, 24182), (243, 24185), (264, 24254), (267, 24278), (275, 24323), (286, 24371), (301, 24437), (330, 24608), (332, 24614), (343, 24665), (355, 24710), (364, 24740), (378, 24788), (389, 24830), (393, 24845), (394, 24848), (402, 24872), (434, 24974), (435, 24977), (449, 25001),

Gene: Sparxx_31 Start: 22958, Stop: 24814, Start Num: 26
Candidate Starts for Sparxx_31:
(Start: 26 @22958 has 162 MA's), (56, 23084), (Start: 62 @23108 has 1 MA's), (89, 23213), (90, 23219), (97, 23267), (100, 23276), (110, 23318), (132, 23363), (137, 23369), (163, 23474), (164, 23486), (184, 23564), (198, 23633), (240, 23861), (246, 23885), (247, 23888), (255, 23915), (257, 23918), (276, 24023), (282, 24053), (285, 24068), (308, 24158), (316, 24197), (320, 24224), (323, 24242), (336, 24341), (388, 24527), (402, 24578), (419, 24632), (443, 24695), (449, 24704), (471, 24791),

Gene: Spike509_33 Start: 23361, Stop: 25112, Start Num: 24
Candidate Starts for Spike509_33:
(Start: 24 @23361 has 83 MA's), (56, 23496), (74, 23562), (84, 23607), (92, 23643), (120, 23754), (132, 23775), (143, 23811), (163, 23832), (192, 23949), (219, 24087), (241, 24183), (243, 24186), (264, 24255), (267, 24279), (275, 24324), (286, 24372), (301, 24438), (329, 24606), (330, 24609), (332, 24615), (343, 24666), (355, 24711), (364, 24741), (378, 24789), (389, 24831), (393, 24846), (394, 24849), (402, 24873), (434, 24975), (435, 24978), (449, 25002),

Gene: Spino_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Spino_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Spouty_33 Start: 24443, Stop: 26209, Start Num: 27
Candidate Starts for Spouty_33:

(Start: 27 @24443 has 26 MA's), (74, 24629), (94, 24719), (107, 24764), (109, 24773), (143, 24851), (161, 24875), (168, 24911), (194, 25040), (198, 25058), (244, 25283), (249, 25304), (258, 25322), (273, 25412), (286, 25469), (312, 25592), (333, 25715), (341, 25754), (355, 25811), (378, 25892), (382, 25913), (383, 25916), (411, 26006), (454, 26117), (472, 26192),

Gene: Stagni_33 Start: 23279, Stop: 25036, Start Num: 24
Candidate Starts for Stagni_33:
(Start: 24 @23279 has 83 MA's), (56, 23414), (74, 23480), (84, 23525), (92, 23561), (132, 23693), (143, 23729), (163, 23750), (179, 23807), (192, 23867), (206, 23921), (214, 23981), (241, 24101), (243, 24104), (264, 24173), (267, 24197), (286, 24290), (289, 24311), (301, 24356), (370, 24686), (389, 24755), (408, 24818), (464, 24989),

Gene: StarStuff_34 Start: 22559, Stop: 24412, Start Num: 31
Candidate Starts for StarStuff_34:
(Start: 28 @22553 has 5 MA's), (Start: 31 @22559 has 37 MA's), (58, 22679), (83, 22769), (94, 22829), (105, 22880), (138, 22973), (145, 22997), (146, 23003), (251, 23510), (267, 23579), (284, 23666), (302, 23747), (332, 23930), (390, 24149), (393, 24161), (403, 24191), (425, 24260), (432, 24284), (436, 24293), (453, 24329),

Gene: Stasia_32 Start: 23404, Stop: 25242, Start Num: 26
Candidate Starts for Stasia_32:
(Start: 26 @23404 has 162 MA's), (44, 23470), (56, 23530), (74, 23596), (83, 23629), (89, 23659), (90, 23665), (97, 23713), (110, 23764), (128, 23836), (165, 23938), (194, 24076), (198, 24094), (258, 24358), (273, 24448), (310, 24610), (313, 24631), (328, 24724), (333, 24751), (336, 24775), (341, 24790), (378, 24925), (383, 24949), (390, 24967), (411, 25039), (441, 25120),

Gene: SteMason_30 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for SteMason_30:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: StepMih_33 Start: 23270, Stop: 25027, Start Num: 24
Candidate Starts for StepMih_33:
(Start: 24 @23270 has 83 MA's), (56, 23405), (74, 23471), (84, 23516), (92, 23552), (132, 23684), (143, 23720), (163, 23741), (179, 23798), (192, 23858), (206, 23912), (214, 23972), (241, 24092), (243, 24095), (264, 24164), (267, 24188), (286, 24281), (289, 24302), (301, 24347), (370, 24677), (389, 24746), (408, 24809), (464, 24980),

Gene: Stink_32 Start: 23240, Stop: 25099, Start Num: 26
Candidate Starts for Stink_32:
(Start: 26 @23240 has 162 MA's), (44, 23306), (Start: 62 @23390 has 1 MA's), (67, 23408), (79, 23453), (90, 23501), (100, 23558), (110, 23600), (137, 23651), (141, 23672), (152, 23705), (163, 23756), (164, 23768), (178, 23822), (184, 23846), (198, 23915), (240, 24143), (247, 24170), (255, 24197), (257, 24200), (276, 24308), (280, 24329), (282, 24338), (296, 24407), (308, 24443), (316, 24482), (325, 24551), (354, 24689), (388, 24812), (390, 24818), (443, 24980), (449, 24989),

Gene: Sultana_31 Start: 22961, Stop: 24817, Start Num: 26
Candidate Starts for Sultana_31:

(Start: 26 @22961 has 162 MA's), (56, 23087), (Start: 62 @23111 has 1 MA's), (89, 23216), (90, 23222), (97, 23270), (110, 23321), (132, 23366), (137, 23372), (163, 23477), (164, 23489), (184, 23567), (198, 23636), (240, 23864), (246, 23888), (247, 23891), (255, 23918), (257, 23921), (276, 24026), (280, 24047), (282, 24056), (308, 24161), (316, 24200), (323, 24245), (354, 24407), (355, 24413), (388, 24530), (390, 24536), (402, 24581), (418, 24632), (419, 24635), (443, 24698), (449, 24707), (471, 24794),

Gene: Sunhee_31 Start: 22065, Stop: 23957, Start Num: 10
Candidate Starts for Sunhee_31:
(Start: 10 @22065 has 1 MA's), (14, 22086), (35, 22248), (43, 22278), (51, 22323), (54, 22335), (96, 22524), (101, 22536), (138, 22638), (211, 22980), (213, 22983), (228, 23064), (242, 23124), (248, 23148), (271, 23253), (279, 23292), (289, 23349), (290, 23352), (329, 23565), (333, 23580), (361, 23700), (457, 23946), (459, 23949),

Gene: Superchunk_30 Start: 21397, Stop: 22950, Start Num: 31
Candidate Starts for Superchunk_30:
(Start: 28 @21391 has 5 MA's), (Start: 31 @21397 has 37 MA's), (58, 21517), (67, 21550), (68, 21553), (75, 21580), (95, 21667), (138, 21754), (164, 21856), (277, 22384), (278, 22390), (284, 22420), (290, 22453), (293, 22465), (312, 22558), (318, 22588), (332, 22684), (350, 22756), (366, 22822), (370, 22834), (385, 22879),

Gene: SwirlSquare_32 Start: 21533, Stop: 23197, Start Num: 31
Candidate Starts for SwirlSquare_32:
(Start: 31 @21533 has 37 MA's), (56, 21644), (66, 21680), (90, 21779), (94, 21803), (145, 21971), (146, 21977), (277, 22598), (293, 22679), (312, 22772), (318, 22802), (332, 22898), (350, 22970), (371, 23057), (392, 23126),

Gene: TNguyen7_31 Start: 22806, Stop: 24665, Start Num: 23
Candidate Starts for TNguyen7_31:
(Start: 23 @22806 has 32 MA's), (58, 22950), (Start: 62 @22965 has 1 MA's), (74, 23007), (99, 23130), (112, 23178), (133, 23220), (137, 23226), (141, 23247), (194, 23487), (201, 23517), (209, 23565), (234, 23691), (244, 23730), (258, 23769), (268, 23826), (273, 23859), (310, 24021), (311, 24024), (320, 24081), (329, 24147), (333, 24162), (383, 24363), (425, 24489), (426, 24492), (458, 24573), (461, 24585), (465, 24612), (472, 24642),

Gene: Taquarus_31 Start: 22963, Stop: 24819, Start Num: 26
Candidate Starts for Taquarus_31:
(Start: 26 @22963 has 162 MA's), (56, 23089), (Start: 62 @23113 has 1 MA's), (89, 23218), (90, 23224), (97, 23272), (100, 23281), (110, 23323), (132, 23368), (137, 23374), (163, 23479), (164, 23491), (184, 23569), (198, 23638), (240, 23866), (246, 23890), (247, 23893), (255, 23920), (257, 23923), (276, 24028), (282, 24058), (285, 24073), (308, 24163), (316, 24202), (323, 24247), (355, 24415), (388, 24532), (390, 24538), (402, 24583), (418, 24634), (419, 24637), (443, 24700), (449, 24709), (471, 24796),

Gene: TarsusIV_31 Start: 22846, Stop: 25041, Start Num: 2
Candidate Starts for TarsusIV_31:
(Start: 2 @22846 has 1 MA's), (3, 22867), (5, 22957), (6, 22966), (12, 23023), (33, 23191), (34, 23194), (42, 23218), (51, 23272), (80, 23383), (87, 23422), (103, 23518), (114, 23554), (150, 23659), (194, 23869), (198, 23887), (244, 24112), (260, 24163), (273, 24241), (286, 24298), (310, 24403), (313, 24424), (319, 24460), (329, 24529), (336, 24568), (350, 24613), (356, 24640), (375, 24715), (383, 24745), (391, 24769), (445, 24919), (456, 24952), (461, 24967),

Gene: Taurus_33 Start: 23276, Stop: 25033, Start Num: 24

Candidate Starts for Taurus_33:
(Start: 24 @23276 has 83 MA's), (56, 23411), (74, 23477), (84, 23522), (92, 23558), (132, 23690), (143, 23726), (163, 23747), (179, 23804), (192, 23864), (206, 23918), (214, 23978), (241, 24098), (243, 24101), (264, 24170), (267, 24194), (286, 24287), (289, 24308), (301, 24353), (370, 24683), (389, 24752), (408, 24815), (464, 24986),

Gene: Terrific_35 Start: 23230, Stop: 25437, Start Num: 1
Candidate Starts for Terrific_35:
(Start: 1 @23230 has 10 MA's), (5, 23344), (7, 23359), (8, 23380), (19, 23491), (34, 23581), (38, 23593), (80, 23770), (87, 23809), (103, 23905), (173, 24166), (194, 24256), (201, 24286), (202, 24298), (243, 24496), (273, 24637), (279, 24658), (297, 24748), (299, 24754), (301, 24760), (310, 24799), (313, 24820), (319, 24856), (320, 24859), (329, 24925), (333, 24940), (334, 24943), (336, 24964), (346, 24997), (383, 25141), (399, 25189), (403, 25198), (420, 25252), (445, 25312), (461, 25360), (472, 25414),

Gene: Texage_31 Start: 23374, Stop: 25233, Start Num: 23
Candidate Starts for Texage_31:
(Start: 23 @23374 has 32 MA's), (58, 23518), (63, 23536), (74, 23575), (79, 23596), (89, 23638), (92, 23656), (141, 23815), (149, 23842), (171, 23947), (175, 23968), (194, 24055), (202, 24097), (258, 24337), (273, 24427), (286, 24484), (320, 24649), (328, 24703), (329, 24715), (333, 24730), (365, 24859), (368, 24871), (383, 24931), (388, 24943), (403, 24988), (408, 25006), (461, 25153), (465, 25180), (472, 25210),

Gene: Thanksgivukkah_31 Start: 22961, Stop: 24817, Start Num: 26
Candidate Starts for Thanksgivukkah_31:
(Start: 26 @22961 has 162 MA's), (56, 23087), (Start: 62 @23111 has 1 MA's), (89, 23216), (90, 23222), (97, 23270), (100, 23279), (110, 23321), (132, 23366), (137, 23372), (163, 23477), (164, 23489), (184, 23567), (198, 23636), (240, 23864), (246, 23888), (247, 23891), (255, 23918), (257, 23921), (276, 24026), (282, 24056), (285, 24071), (308, 24161), (316, 24200), (323, 24245), (355, 24413), (388, 24530), (390, 24536), (402, 24581), (418, 24632), (419, 24635), (443, 24698), (449, 24707), (471, 24794),

Gene: Tiffany_33 Start: 23171, Stop: 24922, Start Num: 24
Candidate Starts for Tiffany_33:
(Start: 24 @23171 has 83 MA's), (56, 23306), (74, 23372), (84, 23417), (92, 23453), (107, 23525), (112, 23543), (143, 23621), (163, 23642), (179, 23699), (192, 23759), (219, 23897), (241, 23993), (243, 23996), (264, 24065), (267, 24089), (275, 24134), (286, 24182), (301, 24248), (330, 24419), (332, 24425), (343, 24476), (355, 24521), (378, 24599), (389, 24641), (402, 24683), (434, 24785), (435, 24788), (449, 24812),

Gene: TinaFeyge_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for TinaFeyge_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (178, 23539), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: TinyPebbles_33 Start: 23366, Stop: 25117, Start Num: 24
Candidate Starts for TinyPebbles_33:
(Start: 24 @23366 has 83 MA's), (56, 23501), (74, 23567), (84, 23612), (92, 23648), (120, 23759), (132, 23780), (143, 23816), (163, 23837), (192, 23954), (219, 24092), (241, 24188), (243, 24191),

(264, 24260), (267, 24284), (275, 24329), (286, 24377), (301, 24443), (330, 24614), (332, 24620), (343, 24671), (355, 24716), (364, 24746), (378, 24794), (389, 24836), (393, 24851), (394, 24854), (402, 24878), (434, 24980), (435, 24983), (449, 25007),

Gene: Tinybot_30 Start: 22937, Stop: 24793, Start Num: 26
Candidate Starts for Tinybot_30:
(Start: 26 @22937 has 162 MA's), (56, 23063), (Start: 62 @23087 has 1 MA's), (97, 23246), (100, 23255), (110, 23297), (132, 23342), (137, 23348), (163, 23453), (164, 23465), (184, 23543), (198, 23612), (224, 23780), (233, 23810), (240, 23840), (247, 23867), (255, 23894), (257, 23897), (276, 24002), (280, 24023), (282, 24032), (308, 24137), (316, 24176), (323, 24221), (354, 24383), (388, 24506), (390, 24512), (443, 24674), (449, 24683),

Gene: TipsytheTRex_30 Start: 21878, Stop: 23713, Start Num: 30
Candidate Starts for TipsytheTRex_30:
(Start: 30 @21878 has 12 MA's), (58, 22001), (Start: 62 @22016 has 1 MA's), (67, 22034), (83, 22091), (92, 22139), (94, 22151), (123, 22262), (145, 22319), (146, 22325), (183, 22505), (201, 22589), (210, 22640), (212, 22661), (230, 22727), (251, 22811), (256, 22823), (277, 22931), (293, 23012), (314, 23111), (332, 23231), (382, 23435), (390, 23450), (425, 23561), (440, 23603),

Gene: TiroTheta9_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for TiroTheta9_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Toaka_30 Start: 22544, Stop: 24361, Start Num: 30
Candidate Starts for Toaka_30:
(Start: 30 @22544 has 12 MA's), (32, 22550), (55, 22649), (90, 22793), (94, 22817), (188, 23180), (189, 23183), (197, 23216), (210, 23294), (211, 23318), (215, 23336), (220, 23360), (248, 23486), (268, 23576), (294, 23714), (333, 23918), (343, 23963), (345, 23972), (364, 24047), (365, 24050), (457, 24350),

Gene: Todacoro_32 Start: 23373, Stop: 25232, Start Num: 23
Candidate Starts for Todacoro_32:
(Start: 23 @23373 has 32 MA's), (58, 23517), (63, 23535), (74, 23574), (79, 23595), (89, 23637), (92, 23655), (141, 23814), (149, 23841), (171, 23946), (175, 23967), (194, 24054), (202, 24096), (249, 24318), (258, 24336), (273, 24426), (286, 24483), (320, 24648), (328, 24702), (329, 24714), (333, 24729), (365, 24858), (368, 24870), (383, 24930), (388, 24942), (403, 24987), (408, 25005), (461, 25152), (465, 25179), (472, 25209),

Gene: Tomathan_34 Start: 22559, Stop: 24412, Start Num: 31
Candidate Starts for Tomathan_34:
(Start: 28 @22553 has 5 MA's), (Start: 31 @22559 has 37 MA's), (58, 22679), (83, 22769), (94, 22829), (105, 22880), (138, 22973), (145, 22997), (146, 23003), (251, 23510), (267, 23579), (284, 23666), (302, 23747), (332, 23930), (390, 24149), (393, 24161), (403, 24191), (425, 24260), (432, 24284), (436, 24293), (453, 24329),

Gene: Topanga_33 Start: 23566, Stop: 25401, Start Num: 26
Candidate Starts for Topanga_33:

(Start: 26 @23566 has 162 MA's), (Start: 62 @23713 has 1 MA's), (73, 23749), (106, 23905), (127, 23974), (128, 23995), (130, 24022), (194, 24235), (198, 24253), (234, 24439), (244, 24478), (258, 24517), (268, 24574), (273, 24607), (286, 24664), (297, 24718), (313, 24790), (314, 24793), (333, 24910), (336, 24934), (341, 24949), (343, 24955), (355, 25003), (362, 25030), (378, 25084), (382, 25105), (383, 25108), (390, 25126), (407, 25183), (411, 25198), (428, 25246), (441, 25279), (454, 25309), (472, 25384),

Gene: Travvers_34 Start: 22559, Stop: 24412, Start Num: 31
Candidate Starts for Travvers_34:
(Start: 28 @22553 has 5 MA's), (Start: 31 @22559 has 37 MA's), (58, 22679), (83, 22769), (94, 22829), (105, 22880), (138, 22973), (145, 22997), (146, 23003), (251, 23510), (267, 23579), (284, 23666), (302, 23747), (403, 24191), (407, 24206), (425, 24260), (432, 24284), (436, 24293), (453, 24329),

Gene: Tristan_33 Start: 24889, Stop: 26664, Start Num: 26
Candidate Starts for Tristan_33:
(21, 24850), (Start: 26 @24889 has 162 MA's), (56, 25000), (58, 25009), (75, 25066), (83, 25093), (100, 25186), (137, 25279), (141, 25300), (143, 25309), (160, 25330), (163, 25342), (187, 25465), (194, 25498), (198, 25516), (202, 25540), (223, 25654), (244, 25741), (258, 25780), (260, 25792), (268, 25837), (310, 26032), (313, 26053), (341, 26212), (343, 26218), (378, 26347), (407, 26446), (411, 26461), (441, 26542), (461, 26602), (472, 26647),

Gene: Trixie_34 Start: 24439, Stop: 26220, Start Num: 28
Candidate Starts for Trixie_34:
(Start: 28 @24439 has 5 MA's), (56, 24556), (58, 24565), (92, 24697), (173, 24964), (194, 25054), (198, 25072), (202, 25096), (258, 25336), (273, 25426), (286, 25483), (312, 25606), (332, 25723), (341, 25768), (378, 25903), (382, 25924), (390, 25945), (411, 26017), (441, 26098), (454, 26128), (461, 26158),

Gene: TroyPia_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for TroyPia_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Tubs_33 Start: 24377, Stop: 26143, Start Num: 27
Candidate Starts for Tubs_33:
(Start: 27 @24377 has 26 MA's), (32, 24389), (74, 24563), (94, 24653), (107, 24698), (109, 24707), (143, 24785), (161, 24809), (168, 24845), (194, 24974), (198, 24992), (244, 25217), (249, 25238), (258, 25256), (273, 25346), (286, 25403), (312, 25526), (333, 25649), (341, 25688), (355, 25745), (378, 25826), (382, 25847), (383, 25850), (411, 25940), (454, 26051), (472, 26126),

Gene: Twister_33 Start: 23481, Stop: 25316, Start Num: 26
Candidate Starts for Twister_33:
(Start: 26 @23481 has 162 MA's), (36, 23514), (73, 23664), (127, 23889), (128, 23910), (130, 23937), (187, 24117), (194, 24150), (198, 24168), (202, 24192), (221, 24300), (258, 24432), (268, 24489), (273, 24522), (286, 24579), (297, 24633), (303, 24648), (312, 24702), (329, 24810), (333, 24825), (336, 24849), (341, 24864), (360, 24936), (373, 24981), (378, 24999), (382, 25020), (383, 25023), (407, 25098), (411, 25113), (441, 25194), (454, 25224), (461, 25254), (472, 25299), (473, 25302),

Gene: TygerBlood_31 Start: 22960, Stop: 24816, Start Num: 26

Candidate Starts for TygerBlood_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Ugenie5_30 Start: 24410, Stop: 26176, Start Num: 27
Candidate Starts for Ugenie5_30:
(Start: 27 @24410 has 26 MA's), (32, 24422), (74, 24596), (94, 24686), (107, 24731), (109, 24740), (143, 24818), (161, 24842), (168, 24878), (194, 25007), (198, 25025), (244, 25250), (249, 25271), (258, 25289), (273, 25379), (286, 25436), (312, 25559), (333, 25682), (341, 25721), (355, 25778), (378, 25859), (382, 25880), (383, 25883), (411, 25973), (454, 26084), (472, 26159),

Gene: Ulysses_30 Start: 22678, Stop: 24534, Start Num: 26
Candidate Starts for Ulysses_30:
(Start: 26 @22678 has 162 MA's), (56, 22804), (Start: 62 @22828 has 1 MA's), (89, 22933), (90, 22939), (97, 22987), (100, 22996), (110, 23038), (132, 23083), (137, 23089), (163, 23194), (164, 23206), (180, 23269), (184, 23284), (198, 23353), (224, 23521), (240, 23581), (247, 23608), (255, 23635), (257, 23638), (276, 23743), (280, 23764), (282, 23773), (308, 23878), (323, 23962), (336, 24061), (388, 24247), (390, 24253), (402, 24298), (418, 24349), (419, 24352), (443, 24415), (449, 24424), (471, 24511),

Gene: Updawg_33 Start: 23218, Stop: 25425, Start Num: 1
Candidate Starts for Updawg_33:
(Start: 1 @23218 has 10 MA's), (5, 23332), (6, 23341), (7, 23347), (8, 23368), (19, 23479), (34, 23569), (38, 23581), (80, 23758), (87, 23797), (103, 23893), (173, 24154), (194, 24244), (201, 24274), (202, 24286), (243, 24484), (273, 24625), (279, 24646), (297, 24736), (299, 24742), (301, 24748), (310, 24787), (313, 24808), (319, 24844), (320, 24847), (329, 24913), (333, 24928), (334, 24931), (336, 24952), (346, 24985), (383, 25129), (399, 25177), (420, 25240), (445, 25300), (461, 25348), (472, 25402),

Gene: VA6_31 Start: 22715, Stop: 24568, Start Num: 31
Candidate Starts for VA6_31:
(Start: 28 @22709 has 5 MA's), (Start: 31 @22715 has 37 MA's), (58, 22835), (83, 22925), (94, 22985), (97, 23009), (105, 23036), (138, 23129), (145, 23153), (146, 23159), (166, 23261), (251, 23666), (267, 23735), (302, 23903), (318, 23990), (332, 24086), (367, 24233), (403, 24347), (425, 24416), (432, 24440), (448, 24470), (453, 24485),

Gene: VC3_34 Start: 22703, Stop: 24556, Start Num: 31
Candidate Starts for VC3_34:
(Start: 28 @22697 has 5 MA's), (Start: 31 @22703 has 37 MA's), (58, 22823), (83, 22913), (94, 22973), (97, 22997), (105, 23024), (138, 23117), (145, 23141), (146, 23147), (166, 23249), (251, 23654), (267, 23723), (302, 23891), (318, 23978), (332, 24074), (367, 24221), (403, 24335), (425, 24404), (432, 24428), (448, 24458), (453, 24473),

Gene: Veracruz_31 Start: 23373, Stop: 25232, Start Num: 23
Candidate Starts for Veracruz_31:
(Start: 23 @23373 has 32 MA's), (58, 23517), (63, 23535), (74, 23574), (79, 23595), (89, 23637), (92, 23655), (141, 23814), (149, 23841), (171, 23946), (175, 23967), (194, 24054), (202, 24096), (249, 24318), (258, 24336), (273, 24426), (286, 24483), (320, 24648), (328, 24702), (329, 24714), (333, 24729), (365, 24858), (368, 24870), (383, 24930), (388, 24942), (403, 24987), (408, 25005), (461,

25152), (465, 25179), (472, 25209),

Gene: Vix_33 Start: 23359, Stop: 25116, Start Num: 24
Candidate Starts for Vix_33:
(Start: 24 @23359 has 83 MA's), (56, 23494), (74, 23560), (84, 23605), (92, 23641), (132, 23773), (143, 23809), (163, 23830), (179, 23887), (192, 23947), (206, 24001), (214, 24061), (241, 24181), (243, 24184), (264, 24253), (267, 24277), (286, 24370), (289, 24391), (301, 24436), (370, 24766), (389, 24835), (408, 24898), (464, 25069),

Gene: WalterMcMickey_33 Start: 23481, Stop: 25316, Start Num: 26
Candidate Starts for WalterMcMickey_33:
(Start: 26 @23481 has 162 MA's), (36, 23514), (73, 23664), (127, 23889), (128, 23910), (130, 23937), (187, 24117), (194, 24150), (198, 24168), (202, 24192), (221, 24300), (258, 24432), (268, 24489), (273, 24522), (286, 24579), (297, 24633), (303, 24648), (312, 24702), (329, 24810), (333, 24825), (336, 24849), (341, 24864), (360, 24936), (373, 24981), (378, 24999), (382, 25020), (383, 25023), (407, 25098), (411, 25113), (441, 25194), (454, 25224), (461, 25254), (472, 25299), (473, 25302),

Gene: Wander_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Wander_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164, 23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (280, 24046), (282, 24055), (308, 24160), (316, 24199), (323, 24244), (354, 24406), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Watson_33 Start: 23269, Stop: 25026, Start Num: 24
Candidate Starts for Watson_33:
(Start: 24 @23269 has 83 MA's), (56, 23404), (74, 23470), (84, 23515), (92, 23551), (132, 23683), (143, 23719), (163, 23740), (179, 23797), (192, 23857), (206, 23911), (214, 23971), (241, 24091), (243, 24094), (264, 24163), (267, 24187), (286, 24280), (289, 24301), (301, 24346), (370, 24676), (389, 24745), (408, 24808), (464, 24979),

Gene: WeiHuaDA_37 Start: 25110, Stop: 26891, Start Num: 28
Candidate Starts for WeiHuaDA_37:
(Start: 28 @25110 has 5 MA's), (56, 25227), (58, 25236), (92, 25368), (141, 25527), (173, 25635), (175, 25638), (194, 25725), (198, 25743), (202, 25767), (244, 25968), (258, 26007), (273, 26097), (286, 26154), (297, 26208), (312, 26277), (332, 26394), (341, 26439), (378, 26574), (382, 26595), (390, 26616), (410, 26682), (441, 26769), (454, 26799), (461, 26829), (472, 26874),

Gene: WideWale_33 Start: 23218, Stop: 25425, Start Num: 1
Candidate Starts for WideWale_33:
(Start: 1 @23218 has 10 MA's), (5, 23332), (6, 23341), (7, 23347), (8, 23368), (19, 23479), (34, 23569), (38, 23581), (80, 23758), (87, 23797), (103, 23893), (173, 24154), (194, 24244), (201, 24274), (202, 24286), (243, 24484), (273, 24625), (279, 24646), (297, 24736), (299, 24742), (301, 24748), (310, 24787), (313, 24808), (319, 24844), (320, 24847), (329, 24913), (333, 24928), (334, 24931), (336, 24952), (346, 24985), (383, 25129), (399, 25177), (420, 25240), (445, 25300), (461, 25348), (472, 25402),

Gene: Wilbur_31 Start: 22960, Stop: 24816, Start Num: 26
Candidate Starts for Wilbur_31:
(Start: 26 @22960 has 162 MA's), (56, 23086), (Start: 62 @23110 has 1 MA's), (89, 23215), (90, 23221), (97, 23269), (100, 23278), (110, 23320), (132, 23365), (137, 23371), (163, 23476), (164,

23488), (184, 23566), (198, 23635), (240, 23863), (246, 23887), (247, 23890), (255, 23917), (257, 23920), (276, 24025), (282, 24055), (285, 24070), (308, 24160), (316, 24199), (323, 24244), (355, 24412), (388, 24529), (390, 24535), (402, 24580), (418, 24631), (419, 24634), (443, 24697), (449, 24706), (471, 24793),

Gene: Wile_31 Start: 22982, Stop: 24841, Start Num: 26
Candidate Starts for Wile_31:
(18, 22922), (20, 22937), (Start: 26 @22982 has 162 MA's), (44, 23048), (53, 23093), (55, 23099), (Start: 62 @23132 has 1 MA's), (67, 23150), (79, 23195), (82, 23201), (83, 23207), (100, 23300), (104, 23315), (132, 23387), (152, 23447), (163, 23498), (164, 23510), (184, 23588), (198, 23657), (216, 23780), (222, 23804), (240, 23885), (250, 23930), (255, 23939), (257, 23942), (280, 24071), (282, 24080), (290, 24122), (296, 24149), (308, 24185), (312, 24212), (316, 24224), (340, 24380), (388, 24554), (390, 24560), (402, 24605), (418, 24656), (419, 24659), (431, 24695), (449, 24731),

Gene: Wizard007_31 Start: 22962, Stop: 24818, Start Num: 26
Candidate Starts for Wizard007_31:
(Start: 26 @22962 has 162 MA's), (56, 23088), (Start: 62 @23112 has 1 MA's), (89, 23217), (90, 23223), (97, 23271), (100, 23280), (110, 23322), (132, 23367), (137, 23373), (163, 23478), (164, 23490), (184, 23568), (198, 23637), (240, 23865), (246, 23889), (247, 23892), (255, 23919), (257, 23922), (276, 24027), (282, 24057), (285, 24072), (308, 24162), (316, 24201), (323, 24246), (355, 24414), (388, 24531), (390, 24537), (402, 24582), (418, 24633), (419, 24636), (443, 24699), (449, 24708), (471, 24795),

Gene: Wooldri_35 Start: 23188, Stop: 24945, Start Num: 24
Candidate Starts for Wooldri_35:
(Start: 24 @23188 has 83 MA's), (56, 23323), (74, 23389), (84, 23434), (92, 23470), (132, 23602), (143, 23638), (163, 23659), (179, 23716), (192, 23776), (206, 23830), (214, 23890), (241, 24010), (243, 24013), (264, 24082), (267, 24106), (286, 24199), (289, 24220), (301, 24265), (370, 24595), (389, 24664), (408, 24727), (464, 24898),

Gene: WorldCup_29 Start: 22236, Stop: 23978, Start Num: 30
Candidate Starts for WorldCup_29:
(Start: 30 @22236 has 12 MA's), (32, 22242), (58, 22359), (67, 22392), (94, 22509), (99, 22539), (115, 22587), (118, 22596), (119, 22599), (157, 22686), (170, 22731), (181, 22758), (197, 22833), (210, 22911), (220, 22977), (248, 23103), (333, 23535), (343, 23580), (376, 23712), (416, 23853), (419, 23865), (433, 23904), (457, 23967),

Gene: Xena_31 Start: 22969, Stop: 24828, Start Num: 26
Candidate Starts for Xena_31:
(18, 22909), (Start: 26 @22969 has 162 MA's), (44, 23035), (53, 23080), (55, 23086), (Start: 62 @23119 has 1 MA's), (67, 23137), (79, 23182), (82, 23188), (83, 23194), (100, 23287), (104, 23302), (132, 23374), (152, 23434), (163, 23485), (164, 23497), (184, 23575), (198, 23644), (216, 23767), (222, 23791), (240, 23872), (250, 23917), (255, 23926), (257, 23929), (280, 24058), (282, 24067), (290, 24109), (296, 24136), (308, 24172), (312, 24199), (316, 24211), (340, 24367), (388, 24541), (390, 24547), (402, 24592), (418, 24643), (419, 24646), (431, 24682), (449, 24718),

Gene: XianYue_31 Start: 22723, Stop: 24396, Start Num: 28
Candidate Starts for XianYue_31:
(Start: 28 @22723 has 5 MA's), (56, 22840), (58, 22849), (60, 22855), (66, 22876), (74, 22906), (92, 22987), (143, 23155), (154, 23179), (176, 23287), (192, 23353), (253, 23620), (304, 23833), (333, 24019), (344, 24064), (347, 24073), (358, 24124), (363, 24142), (432, 24361), (446, 24388),

Gene: Yecey3_32 Start: 22435, Stop: 24132, Start Num: 28

Candidate Starts for Yecey3_32:
(Start: 28 @22435 has 5 MA's), (54, 22540), (67, 22594), (75, 22624), (90, 22687), (94, 22711), (145, 22789), (153, 22810), (155, 22813), (163, 22864), (166, 22885), (183, 22963), (184, 22966), (251, 23278), (252, 23281), (263, 23314), (265, 23320), (277, 23404), (278, 23410), (281, 23425), (293, 23485), (320, 23617), (332, 23704), (365, 23839), (372, 23866), (397, 23941), (401, 23956), (412, 23992), (421, 24016), (431, 24049), (436, 24061),

Gene: YoSam321_31 Start: 22957, Stop: 24813, Start Num: 26
Candidate Starts for YoSam321_31:
(Start: 26 @22957 has 162 MA's), (56, 23083), (Start: 62 @23107 has 1 MA's), (89, 23212), (90, 23218), (97, 23266), (100, 23275), (110, 23317), (132, 23362), (137, 23368), (163, 23473), (164, 23485), (184, 23563), (198, 23632), (240, 23860), (246, 23884), (247, 23887), (255, 23914), (257, 23917), (276, 24022), (282, 24052), (285, 24067), (308, 24157), (316, 24196), (323, 24241), (355, 24409), (388, 24526), (390, 24532), (402, 24577), (418, 24628), (419, 24631), (443, 24694), (449, 24703), (471, 24790),

Gene: Zarafa_31 Start: 22901, Stop: 24760, Start Num: 23
Candidate Starts for Zarafa_31:
(Start: 23 @22901 has 32 MA's), (55, 23027), (56, 23036), (74, 23102), (79, 23123), (89, 23165), (137, 23321), (149, 23369), (164, 23438), (165, 23444), (171, 23474), (194, 23582), (198, 23600), (202, 23624), (258, 23864), (273, 23954), (299, 24071), (320, 24176), (329, 24242), (333, 24257), (375, 24428), (408, 24533), (426, 24587), (441, 24626), (461, 24680), (465, 24707), (471, 24731),

Gene: Zetzy_32 Start: 22817, Stop: 24574, Start Num: 24
Candidate Starts for Zetzy_32:
(Start: 24 @22817 has 83 MA's), (56, 22952), (74, 23018), (84, 23063), (120, 23210), (143, 23267), (163, 23288), (192, 23405), (206, 23459), (214, 23519), (235, 23612), (241, 23639), (243, 23642), (264, 23711), (267, 23735), (275, 23780), (288, 23840), (289, 23849), (301, 23894), (310, 23933), (320, 23990), (370, 24224), (389, 24293), (408, 24356), (449, 24464),