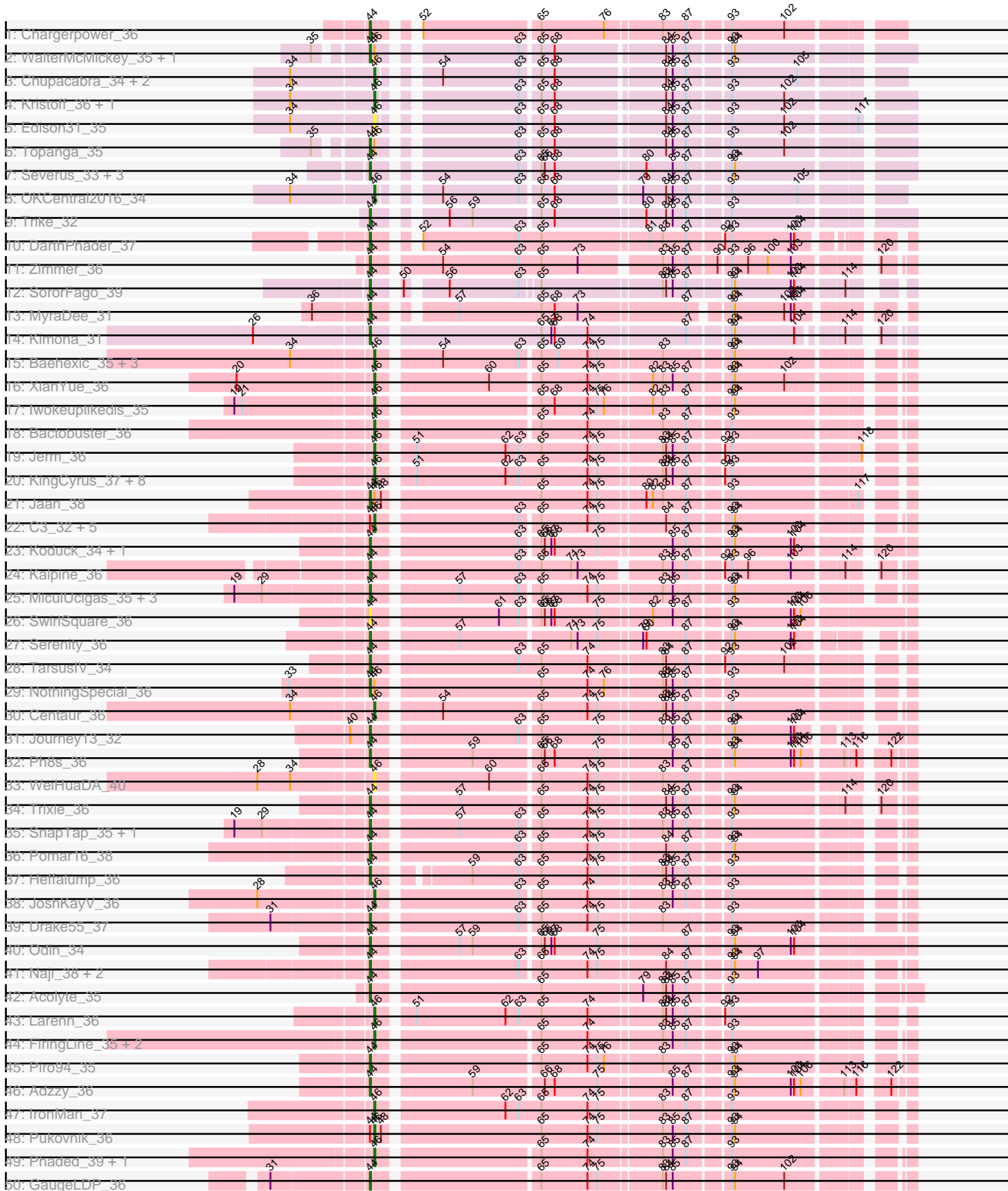
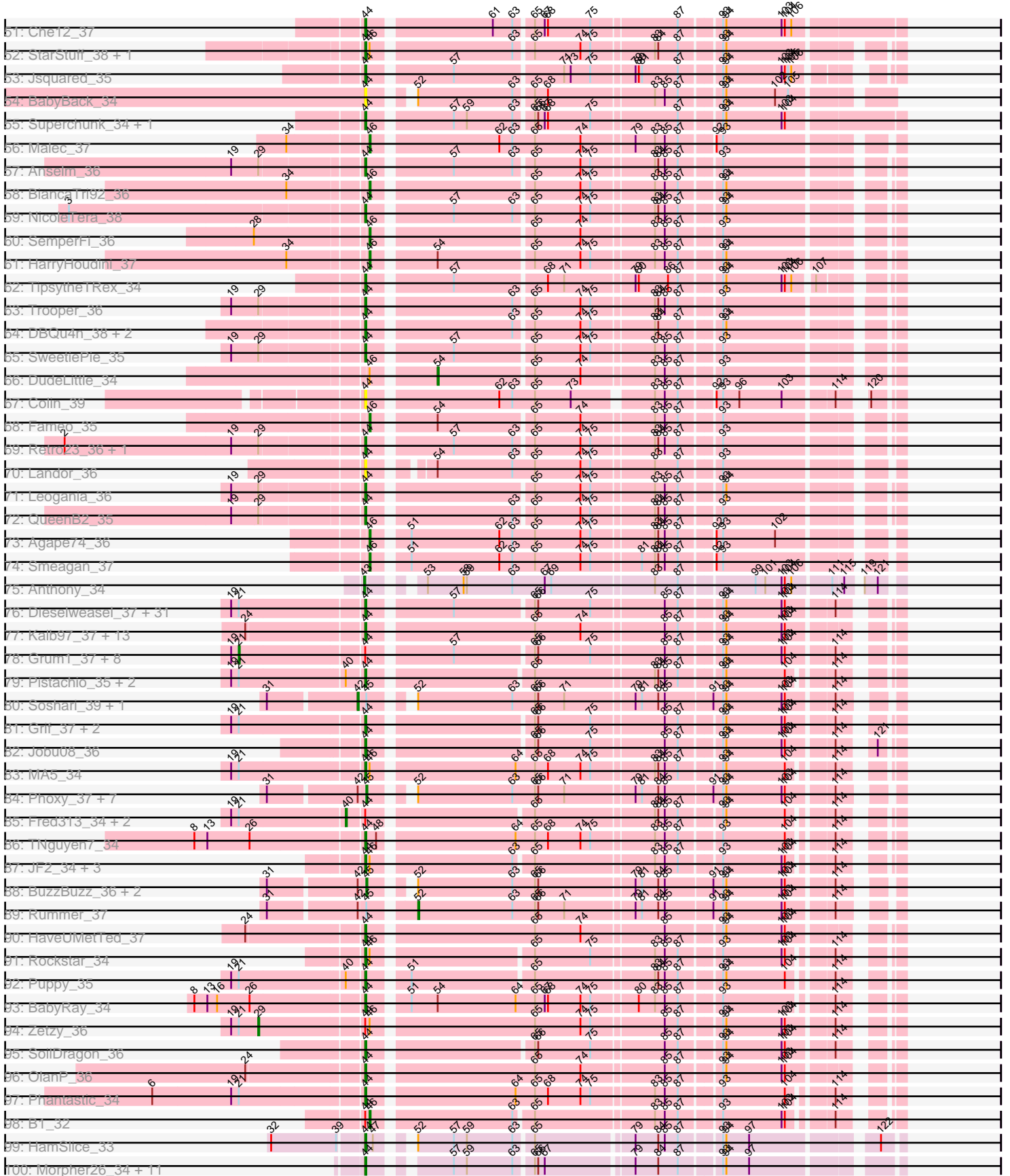


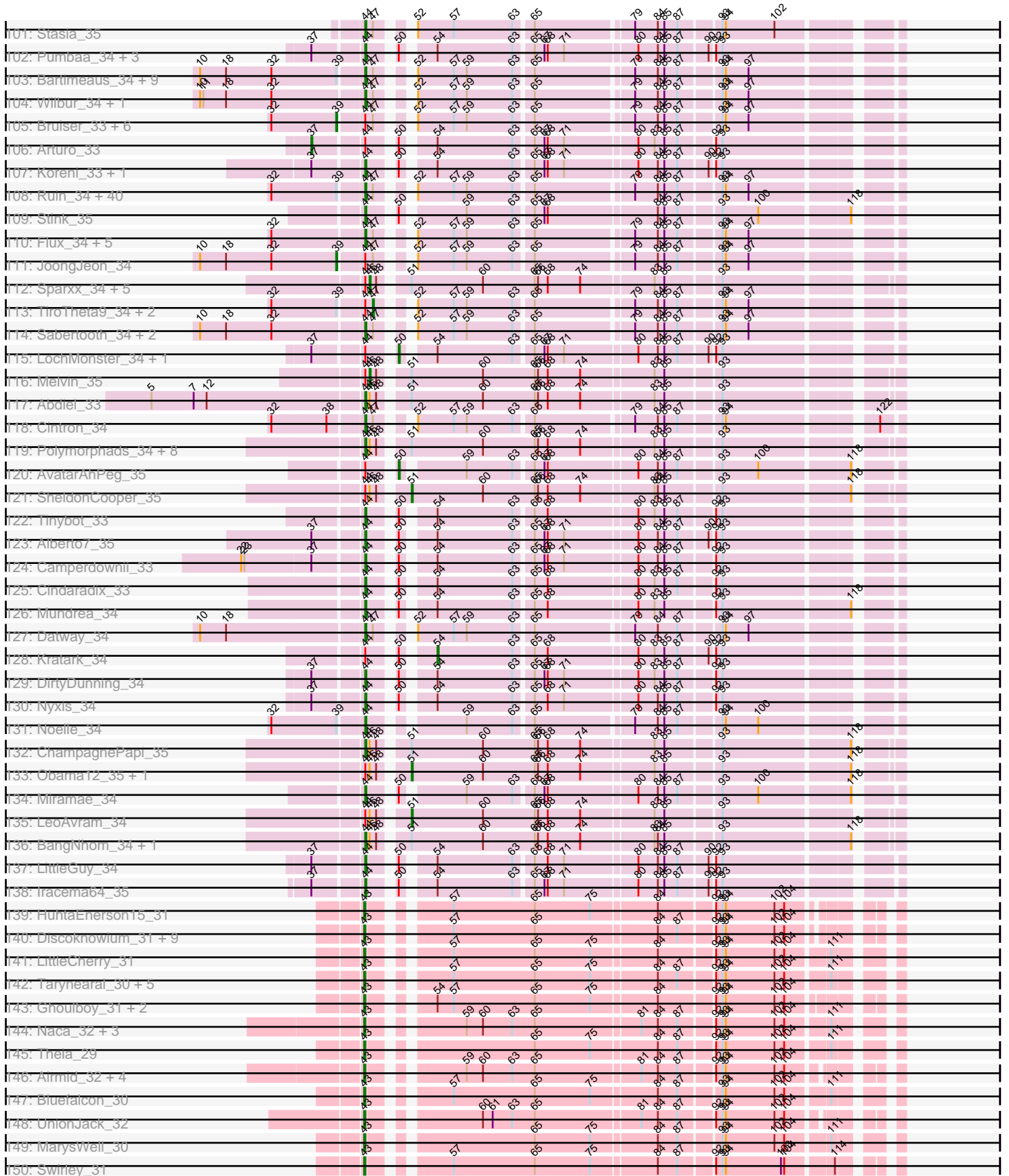
Pham 161483



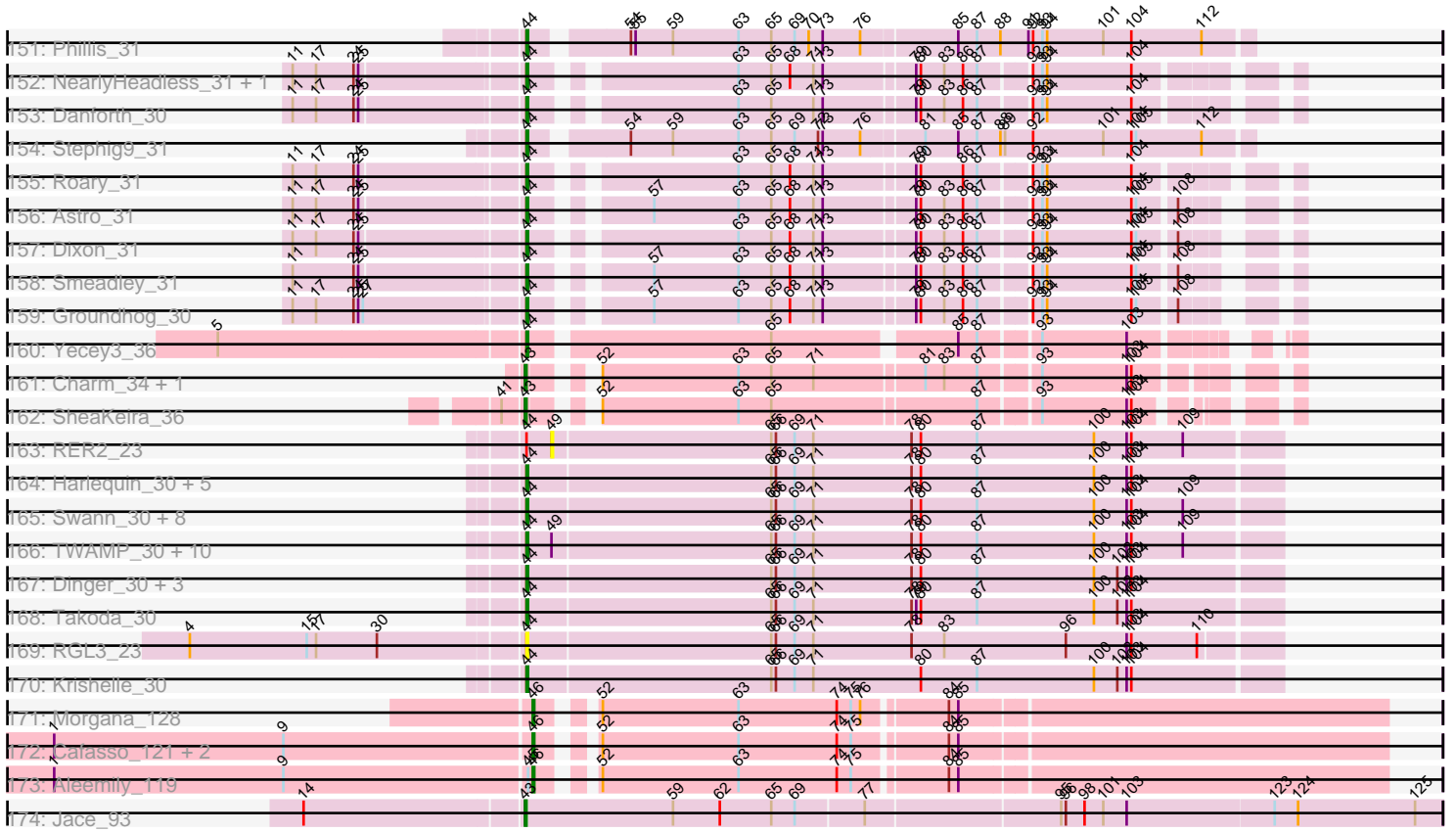
Pham 161483



Pham 161483



Pham 161483



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 161483 Report

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

Pham number 161483 has 432 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_36
- Track 2 : WalterMcMickey_35, Twister_35
- Track 3 : Chupacabra_34, Eaglepride_36, Goose_35
- Track 4 : Kristoff_36, Rebeuca_36
- Track 5 : Edison31_35
- Track 6 : Topanga_35
- Track 7 : Severus_33, PeaceMeal1_33, Poompha_33, Drake94_33
- Track 8 : OKCentral2016_34
- Track 9 : Trike_32
- Track 10 : DarthPhader_37
- Track 11 : Zimmer_36
- Track 12 : SororFago_39
- Track 13 : MyraDee_31
- Track 14 : Kimona_31
- Track 15 : Baehexic_35, WideWale_36, Updawg_36, Equemioh13_36
- Track 16 : XianYue_36
- Track 17 : Iwokeuplikedis_35
- Track 18 : Bactobuster_36
- Track 19 : Jerm_36
- Track 20 : KingCyrus_37, Turbido_35, Dignity_36, EvilGenius_37, ChipMunk_37, AbbyPaige_36, Whabigail7_35, Leviathan_36, LilTurb_35
- Track 21 : Jaan_38
- Track 22 : C3_32, AN9_37, VC3_37, ANI8_37, AN3_34, VA6_34
- Track 23 : Koduck_34, L5_34.1
- Track 24 : Kalpine_36
- Track 25 : MiculUcigas_35, NaSiaTalie_35, Bugsy_37, Flare16_35
- Track 26 : SwirlSquare_36
- Track 27 : Serenity_36
- Track 28 : TarsusIV_34
- Track 29 : NothingSpecial_36
- Track 30 : Centaur_36
- Track 31 : Journey13_32
- Track 32 : Ph8s_36
- Track 33 : WeiHuaDA_40
- Track 34 : Trixie_36
- Track 35 : SnapTap_35, Crucio_35
- Track 36 : Pomar16_38

- Track 37 : Heffalump_36
- Track 38 : JoshKayV_36
- Track 39 : Drake55_37
- Track 40 : Odin_34
- Track 41 : Naji_38, D29_34.1, D32_38
- Track 42 : Acolyte_35
- Track 43 : Larenn_36
- Track 44 : FiringLine_35, QueenBeesly_35, Power_34
- Track 45 : Piro94_35
- Track 46 : Adzzy_36
- Track 47 : IronMan_37
- Track 48 : Pukovnik_36
- Track 49 : Phaded_39, Georgie2_36
- Track 50 : GaugeLDP_36
- Track 51 : Che12_37
- Track 52 : StarStuff_38, Tomathan_38
- Track 53 : Jsquared_35
- Track 54 : BabyBack_34
- Track 55 : Superchunk_34, Caraxes_34
- Track 56 : Malec_37
- Track 57 : Anselm_36
- Track 58 : BiancaTri92_36
- Track 59 : NicoleTera_38
- Track 60 : SemperFi_36
- Track 61 : HarryHoudini_37
- Track 62 : TipsytheTRex_34
- Track 63 : Trooper_36
- Track 64 : DBQu4n_38, Duplo_38, Kerberos_38
- Track 65 : SweetiePie_35
- Track 66 : DudeLittle_34
- Track 67 : Colin_39
- Track 68 : Fameo_35
- Track 69 : Retro23_36, Dalmatian_36
- Track 70 : Landor_36
- Track 71 : Leogania_36
- Track 72 : QueenB2_35
- Track 73 : Agape74_36
- Track 74 : Smeagan_37
- Track 75 : Anthony_34
- Track 76 : Dieselweasel_37, MuchMore_39, Colbster_37, DaHudson_37, Phoebe_37, JHC117_37, GtownJaz_37, Penny1_37, EpicPhail_37, LBerry_37, Aglet_37, AugsMagnumOpus_39, GingkoMaracino_37, Snickers_37, Mainiac_37, Pembroke_37, Cullens_37, Stagni_37, Fernando_37, Watson_37, Malinsilva_39, Wooldri_39, P28Green_37, SoYo_37, Grub_37, Beauxregard13_37, StepMih_37, PGHhamlin_39, PotatoSplit_38, Farber_37, BreSam8_37, LugYA_39
- Track 77 : Kalb97_37, Reba_37, Manu_37, Groupthink_37, Kalnoky_37, Phranny_37, PurpleHaze_36, JeppNRM_37, Pawn_37, Marius_37, Heliosoles_36, PhishRPhriends_35, ACFishhook_36, Gemma_36
- Track 78 : Grum1_37, Vix_37, MarQuardt_37, Tiffany_37, Sabia_37, Anubis_39, MoneyMay_37, Marie_37, Hercules11_37
- Track 79 : Pistachio_35, BlueBird_35, Scout_34
- Track 80 : Soshari_39, AgronaGT15_37
- Track 81 : Grif_37, MadMarie_37, Ollie_37

- Track 82 : Jobu08_36
- Track 83 : MA5_34
- Track 84 : Phoxy_37, Bxz2_35, Daishi_36, LarryKay_37, Spike509_37, Methuselah_36, HashRod_38, Louie6_37
- Track 85 : Fred313_34, HelDan_34, Idleandcovert_34
- Track 86 : TNguyen7_34
- Track 87 : JF2_34, JF4_34, MK4_34, Isca_34
- Track 88 : BuzzBuzz_36, Misomonster_39, KADY_38
- Track 89 : Rummer_37
- Track 90 : HaveUMetTed_37
- Track 91 : Rockstar_34
- Track 92 : Puppy_35
- Track 93 : BabyRay_34
- Track 94 : Zetzy_36
- Track 95 : SoilDragon_36
- Track 96 : OlanP_36
- Track 97 : Phantastic_34
- Track 98 : B1_32
- Track 99 : HamSlice_33
- Track 100 : Morpher26_34, PetiteSangsue_34, Wile_34, AbbysRanger_34, Achebe_33, Katalie136_34, Perplexer_34, Backyardigan_34, Badger_34, Bumblebee11_34, Xena_34, Cici_34
- Track 101 : Stasia_35
- Track 102 : Pumbaa_34, Phontbonne_34, Ulysses_33, Phighter1804_34
- Track 103 : Bartimeaus_34, Broseidon_34, Relief_34, CentreCat_34, Druantia_34, Blackmoor_34, Roosevelt_34, Baby16_34, Florean_34, Eros_34
- Track 104 : Wilbur_34, Romney_34
- Track 105 : Bruiser_33, Eris_33, Bombshell_34, Millski_33, BubbleTrouble_34, Funston_34, Clarenza_34
- Track 106 : Arturo_33
- Track 107 : Koreni_33, ICleared_34
- Track 108 : Ruin_34, TygerBlood_34, Albee_34, Mazhar510_34, OKaNui_35, PeterPeter_34, Lorenzo_34, Eapen_34, Shaka_34, Avle17_34, Nemo27_34, Lemur_34, Caelakin_34, Wander_34, Holli_34, Skipitt_34, Spino_34, Cocoaberry_34, Taquarus_34, Kyee_34, Chaph_34, Annyong_34, Iceman_35, Maverick_34, NorthStar_34, Phacado_34, Peaches_34, Deano_34, JetBlade_34, Connomayer_34, Gadost_34, Dhanush_34, Citius_34, Wizard007_34, NotAPhaseMom_34, Lunsford_35, MeeZee_34, Thanksgivukkah_34, Houdini22_34, Happiness_34, YoSam321_34
- Track 109 : Stink_35
- Track 110 : Flux_34, LittleB_34, Pipcraft_34, Scamp_34, KFPoly_34, Burger_33
- Track 111 : JoongJeon_34
- Track 112 : Sparxx_34, TroyPia_34, BellusTerra_34, Eagle_33, Medusa_34, Morrow_34
- Track 113 : TiroTheta9_34, LappelDuVide_34, Jaykayelowell_34
- Track 114 : Sabertooth_34, Shygu2_34, Palestino_33
- Track 115 : LochMonster_34, Kremtemulon_33
- Track 116 : Melvin_35
- Track 117 : Abdiel_33
- Track 118 : Cintron_34
- Track 119 : Polymorphads_34, Phelipe_34, TinaFeyge_34, Maxo_34, Kampy_34, Commander_34, Eurydice_34, Ohfah_34, Nebs_34
- Track 120 : AvatarAhPeg_35

- Track 121 : SheldonCooper_35
- Track 122 : Tinybot_33
- Track 123 : Alberto7_35
- Track 124 : Camperdownii_33
- Track 125 : Cindaradix_33
- Track 126 : Mundrea_34
- Track 127 : Datway_34
- Track 128 : Kratark_34
- Track 129 : DirtyDunning_34
- Track 130 : Nyxis_34
- Track 131 : Noelle_34
- Track 132 : ChampagnePapi_35
- Track 133 : Obama12_35, LHTSCC_35
- Track 134 : Miramae_34
- Track 135 : LeoAvram_34
- Track 136 : BangNhom_34, Cerulean_35
- Track 137 : LittleGuy_34
- Track 138 : Iracema64_35
- Track 139 : HuhtaEnerson15_31
- Track 140 : Discoknowium_31, Lev2_31, Aragog_31, AgentM_31, Conspiracy_31, Jovo_31, Tiger_31, Phlorence_31, ForGetIt_31, PickleBack_31
- Track 141 : LittleCherry_31
- Track 142 : Tarynearal_30, Bonamassa_31, George_30, Dublin_30, Cuco_31, Milcery_31
- Track 143 : Ghoulboy_31, Zolita_30, SydNat_31
- Track 144 : Naca_32, Scorpia_33, PetterN_33, Chadwick_33
- Track 145 : Theia_29
- Track 146 : Airmid_32, EITiger69_32, Archetta_31, Jabiru_32, Benedict_32
- Track 147 : Bluefalcon_30
- Track 148 : UnionJack_32
- Track 149 : MarysWell_30
- Track 150 : Swirley_31
- Track 151 : Phillis_31
- Track 152 : NearlyHeadless_31, Expelliarmus_30
- Track 153 : Danforth_30
- Track 154 : Stephig9_31
- Track 155 : Roary_31
- Track 156 : Astro_31
- Track 157 : Dixon_31
- Track 158 : Smeadley_31
- Track 159 : Groundhog_30
- Track 160 : Yecey3_36
- Track 161 : Charm_34, DreamTeam1_34
- Track 162 : SheaKeira_36
- Track 163 : RER2_23
- Track 164 : Harlequin_30, Hiro_30, Bryce_30, Yoncess_30, Jester_30, BobbyDazzler_30
- Track 165 : Swann_30, Yogi_30, Bonanza_30, Nancinator_30, RexFury_30, Belenaria_30, Espica_30, UhSalsa_30, Natosaleda_30
- Track 166 : TWAMP_30, Alatin_30, PhailMary_29, Phrankenstien_30, Gollum_30, StCroix_30, Alpacados_29, Erik_30, Bradshaw_30, Naiad_30, Shuman_30
- Track 167 : Dinger_30, Rasputin_30, AngryOrchard_29, Partridge_30
- Track 168 : Takoda_30

- Track 169 : RGL3_23
- Track 170 : Krishelle_30
- Track 171 : Morgana_128
- Track 172 : Cafasso_121, ModicumRichard_121, ObLaDi_120
- Track 173 : Aleemily_119
- Track 174 : Jace_93

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

The start number called the most often in the published annotations is 44, it was called in 273 of the 417 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ACFishhook_36, AbbysRanger_34, Abdiel_33, Achebe_33, Acolyte_35, Adzzy_36, Aglet_37, Alatin_30, Albee_34, Alberto7_35, Alpacados_29, AngryOrchard_29, Annyong_34, Anselm_36, Astro_31, AugsMagnumOpus_39, Avle17_34, Baby16_34, BabyBack_34, BabyRay_34, Backyardigan_34, Badger_34, BangNhom_34, Bartimeaus_34, Beauxregard13_37, Belenaria_30, Blackmoor_34, BlueBird_35, BobbyDazzler_30, Bonanza_30, Bradshaw_30, BreSam8_37, Broseidon_34, Bryce_30, Buggy_37, Bumblebee11_34, Burger_33, Caelakin_34, Camperdownii_33, Caraxes_34, CentreCat_34, Cerulean_35, ChampagnePapi_35, Chaph_34, Chargerpower_36, Che12_37, Cici_34, Cindaradix_33, Cintron_34, Citius_34, Cocoaberry_34, Colbster_37, Colin_39, Commander_34, Connomayer_34, Crucio_35, Cullens_37, D29_34.1, D32_38, DBQu4n_38, DaHudson_37, Dalmatian_36, Danforth_30, DarthPhader_37, Datway_34, Deano_34, Dhanush_34, Dieselweasel_37, Dinger_30, DirtyDunning_34, Dixon_31, Drake55_37, Drake94_33, Druantia_34, Duplo_38, Eapen_34, EpicPhail_37, Erik_30, Eros_34, Espica_30, Eurydice_34, Expelliarmus_30, Farber_37, Fernando_37, Flare16_35, Floean_34, Flux_34, Gadost_34, GaugeLDP_36, Gemma_36, GingkoMaracino_37, Gollum_30, Grif_37, Groundhog_30, Groupthink_37, Grub_37, GtownJaz_37, HamSlice_33, Happiness_34, Harlequin_30, HaveUMetTed_37, Heffalump_36, Heliosoles_36, Hiro_30, Holli_34, Houdini22_34, ICleared_34, Iceman_35, Iracema64_35, Isca_34, JF2_34, JF4_34, JHC117_37, Jaan_38, JeppNRM_37, Jester_30, JetBlade_34, Jobu08_36, Journey13_32, Jsquared_35, KFPoly_34, Kalb97_37, Kalnoky_37, Kalpine_36, Kampy_34, Katalie136_34, Kerberos_38, Kimona_31, Koduck_34, Koreni_33, Krishelle_30, Kyee_34, L5_34.1, LBerry_37, Landor_36, Lemur_34, Leogania_36, LittleB_34, LittleGuy_34, Lorenzo_34, LugYA_39, Lunsford_35, MA5_34, MK4_34, MadMarie_37, Mainiac_37, Malinsilva_39, Manu_37, Marius_37, Maverick_34, Maxo_34, Mazhar510_34, MeeZee_34, MiculUcigas_35, Miramae_34, Morpher26_34, MuchMore_39, Mundrea_34, MyraDee_31, NaSiaTalie_35, Naiad_30, Naji_38, Nancinator_30, Natosaleda_30, NearlyHeadless_31, Nebs_34, Nemo27_34, NicoleTera_38, Noelle_34, NorthStar_34, NotAPhaseMom_34, NothingSpecial_36, Nyxis_34, OKaNui_35, Odin_34, Ohfah_34, OlanP_36, Ollie_37, P28Green_37, PGHhamlin_39, Palestino_33, Partridge_30, Pawn_37, PeaceMeal1_33, Peaches_34, Pembroke_37, Penny1_37, Perplexer_34, PeterPeter_34, PetiteSangsue_34, Ph8s_36, Phacado_34, PhailMary_29, Phantastic_34, Phelipe_34, Phighter1804_34, Phillis_31, PhishRPhriends_35, Phoebe_37, Phontbonne_34, Phrankenstein_30, Phranny_37, Pipcraft_34, Piro94_35, Pistachio_35, Polymorphads_34, Pomar16_38, Poompha_33, PotatoSplit_38, Pumbaa_34, Puppy_35, PurpleHaze_36, QueenB2_35, RGL3_23,

Rasputin_30, Reba_37, Relief_34, Retro23_36, RexFury_30, Roary_31, Rockstar_34, Romney_34, Roosevelt_34, Ruin_34, Sabertooth_34, Scamp_34, Scout_34, Serenity_36, Severus_33, Shaka_34, Shuman_30, Shygu2_34, Skipitt_34, Smeadley_31, SnapTap_35, Snickers_37, SoYo_37, SoilDragon_36, SororFago_39, Spino_34, StCroix_30, Stagni_37, StarStuff_38, Stasia_35, StepMih_37, StepHig9_31, Stink_35, Superchunk_34, Swann_30, SweetiePie_35, SwirlSquare_36, TNguyen7_34, TWAMP_30, Takoda_30, Taquarus_34, TarsusIV_34, Thanksgivukkah_34, TinaFeyge_34, Tinybot_33, TipsytheTRex_34, Tomathan_38, Topanga_35, Trike_32, Trixie_36, Trooper_36, Twister_35, TygerBlood_34, UhSalsa_30, Ulysses_33, WalterMcMickey_35, Wander_34, Watson_37, Wilbur_34, Wile_34, Wizard007_34, Wooldri_39, Xena_34, Yecey3_36, YoSam321_34, Yogi_30, Yoncess_30, Zimmer_36,

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

- AN3_34, AN9_37, AN18_37, Anubis_39, Arturo_33, AvatarAhPeg_35, B1_32, BellusTerra_34, Bombshell_34, Bruiser_33, BubbleTrouble_34, C3_32, Clarenza_34, Eagle_33, Eris_33, Fred313_34, Funston_34, Grum1_37, HelDan_34, Hercules11_37, Idleandcovert_34, Jaykayelowell_34, JoongJeon_34, Kratark_34, Kremtemulon_33, LHTSCC_35, LappelDuVide_34, LeoAvram_34, LochMonster_34, MarQuardt_37, Marie_37, Medusa_34, Melvin_35, Millski_33, MoneyMay_37, Morrow_34, Obama12_35, Pukovnik_36, RER2_23, Sabia_37, SheldonCooper_35, Sparxx_34, Tiffany_37, TiroTheta9_34, TroyPia_34, VA6_34, VC3_37, Vix_37, Zetzy_36,

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

- AbbyPaige_36, Agape74_36, AgentM_31, AgronaGT15_37, Airmid_32, Aleemily_119, Anthony_34, Aragog_31, Archetta_31, Bactobuster_36, Baehexic_35, Benedict_32, BiancaTri92_36, Bluefalcon_30, Bonamassa_31, BuzzBuzz_36, Bxz2_35, Cafasso_121, Centaur_36, Chadwick_33, Charm_34, ChipMunk_37, Chupacabra_34, Conspiracy_31, Cuco_31, Daishi_36, Dignity_36, Discoknowium_31, DreamTeam1_34, Dublin_30, DudeLittle_34, Eaglepride_36, Edison31_35, EITiger69_32, Equemioh13_36, EvilGenius_37, Fameo_35, FiringLine_35, ForGetIt_31, George_30, Georgie2_36, Ghoulboy_31, Goose_35, HarryHoudini_37, HashRod_38, HuhtaEnerson15_31, IronMan_37, Iwokeuplikedis_35, Jabiru_32, Jace_93, Jerm_36, JoshKayV_36, Jovo_31, KADY_38, KingCyrus_37, Kristoff_36, Larenn_36, LarryKay_37, Lev2_31, Leviathan_36, LilTurb_35, LittleCherry_31, Louie6_37, Malec_37, MarysWell_30, Methuselah_36, Milcery_31, Misomonster_39, ModicumRichard_121, Morgana_128, Naca_32, OKCentral2016_34, ObLaDi_120, PetterN_33, Phaded_39, Phlorence_31, Phoxy_37, PickleBack_31, Power_34, QueenBeesly_35, Rebeuca_36, Rummer_37, Scorpia_33, SemperFi_36, Sheakeira_36, Smeagan_37, Soshari_39, Spike509_37, Swirley_31, SydNat_31, Tarynearal_30, Theia_29, Tiger_31, Turbido_35, UnionJack_32, Updawg_36, WeiHuaDA_40, Whabigail7_35, WideWale_36, XianYue_36, Zolita_30,

Summary by start number:

Start 21:

- Found in 55 of 432 (12.7%) of genes in pham
- Manual Annotations of this start: 9 of 417
- Called 16.4% of time when present
- Phage (with cluster) where this start called: Anubis_39 (A3), Grum1_37 (A3), Hercules11_37 (A3), MarQuardt_37 (A3), Marie_37 (A3), MoneyMay_37 (A3),

Sabia_37 (A3), Tiffany_37 (A3), Vix_37 (A3),

Start 29:

- Found in 14 of 432 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 417
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Zetzy_36 (A3),

Start 37:

- Found in 15 of 432 (3.5%) of genes in pham
- Manual Annotations of this start: 1 of 417
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Arturo_33 (A4),

Start 39:

- Found in 64 of 432 (14.8%) of genes in pham
- Manual Annotations of this start: 8 of 417
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Bombshell_34 (A4), Bruiser_33 (A4), BubbleTrouble_34 (A4), Clarenza_34 (A4), Eris_33 (A4), Funston_34 (A4), JoongJeon_34 (A4), Millski_33 (A4),

Start 40:

- Found in 8 of 432 (1.9%) of genes in pham
- Manual Annotations of this start: 3 of 417
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Fred313_34 (A3), HelDan_34 (A3), Idleandcovert_34 (A3),

Start 42:

- Found in 14 of 432 (3.2%) of genes in pham
- Manual Annotations of this start: 2 of 417
- Called 14.3% of time when present
- Phage (with cluster) where this start called: AgronaGT15_37 (A3), Soshari_39 (A3),

Start 43:

- Found in 40 of 432 (9.3%) of genes in pham
- Manual Annotations of this start: 40 of 417
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM_31 (A5), Airmid_32 (A5), Anthony_34 (A20), Aragog_31 (A5), Archetta_31 (A5), Benedict_32 (A5), Bluefalcon_30 (A5), Bonamassa_31 (A5), Chadwick_33 (A5), Charm_34 (A9), Conspiracy_31 (A5), Cuco_31 (A5), Discoknowium_31 (A5), DreamTeam1_34 (A9), Dublin_30 (A5), ElTiger69_32 (A5), ForGetIt_31 (A5), George_30 (A5), Ghouboy_31 (A5), HuhtaEnerson15_31 (A5), Jabiru_32 (A5), Jace_93 (singleton), Jovo_31 (A5), Lev2_31 (A5), LittleCherry_31 (A5), MarysWell_30 (A5), Milcery_31 (A5), Naca_32 (A5), PetterN_33 (A5), Phlorence_31 (A5), PickleBack_31 (A5), Scorpia_33 (A5), SheaKeira_36 (A9), Swirley_31 (A5), SydNat_31 (A5), Tarynearal_30 (A5), Theia_29 (A5), Tiger_31 (A5), UnionJack_32 (A5), Zolita_30 (A5),

Start 44:

- Found in 331 of 432 (76.6%) of genes in pham
- Manual Annotations of this start: 273 of 417

- Called 85.2% of time when present
- Phage (with cluster) where this start called: ACFishhook_36 (A3), AbbysRanger_34 (A4), Abdiel_33 (A4), Achebe_33 (A4), Acolyte_35 (A2), Adzzy_36 (A2), Aglet_37 (A3), Alatin_30 (CA), Albee_34 (A4), Alberto7_35 (A4), Alpacados_29 (CA), AngryOrchard_29 (CA), Annyong_34 (A4), Anselm_36 (A2), Astro_31 (A8), AugsMagnumOpus_39 (A3), Avle17_34 (A4), Baby16_34 (A4), BabyBack_34 (A2), BabyRay_34 (A3), Backyardigan_34 (A4), Badger_34 (A4), BangNhom_34 (A4), Bartimeaus_34 (A4), Beauxregard13_37 (A3), Belenaria_30 (CA), Blackmoor_34 (A4), BlueBird_35 (A3), BobbyDazzler_30 (CA), Bonanza_30 (CA), Bradshaw_30 (CA), BreSam8_37 (A3), Broseidon_34 (A4), Bryce_30 (CA), Buggy_37 (A2), Bumblebee11_34 (A4), Burger_33 (A4), Caelakin_34 (A4), Camperdownii_33 (A4), Caraxes_34 (A2), CentreCat_34 (A4), Cerulean_35 (A4), ChampagnePapi_35 (A4), Chaph_34 (A4), Chargerpower_36 (A), Che12_37 (A2), Cici_34 (A4), Cindaradix_33 (A4), Cintron_34 (A4), Citius_34 (A4), Cocoaberry_34 (A4), Colbster_37 (A3), Colin_39 (A2), Commander_34 (A4), Connomayer_34 (A4), Crucio_35 (A2), Cullens_37 (A3), D29_34.1 (A2), D32_38 (A2), DBQu4n_38 (A2), DaHudson_37 (A3), Dalmatian_36 (A2), Danforth_30 (A8), DARTHPhader_37 (A12), Datway_34 (A4), Deano_34 (A4), Dhanush_34 (A4), Dieselweasel_37 (A3), Dinger_30 (CA), DirtyDunning_34 (A4), Dixon_31 (A8), Drake55_37 (A2), Drake94_33 (A10), Druantia_34 (A4), Duplo_38 (A2), Eapen_34 (A4), EpicPhail_37 (A3), Erik_30 (CA), Eros_34 (A4), Espica_30 (CA), Eurydice_34 (A4), Expelliarmus_30 (A8), Farber_37 (A3), Fernando_37 (A3), Flare16_35 (A2), Florean_34 (A4), Flux_34 (A4), Gadost_34 (A4), GaugeLDP_36 (A2), Gemma_36 (A3), GingkoMaracino_37 (A3), Gollum_30 (CA), Grif_37 (A3), Groundhog_30 (A8), Groupthink_37 (A3), Grub_37 (A3), GtownJaz_37 (A3), HamSlice_33 (A4), Happiness_34 (A4), Harlequin_30 (CA), HaveUMetTed_37 (A3), Heffalump_36 (A2), Heliosoles_36 (A3), Hiro_30 (CA), Holli_34 (A4), Houdini22_34 (A4), ICleared_34 (A4), Iceman_35 (A4), Iracema64_35 (A4), Isca_34 (A3), JF2_34 (A3), JF4_34 (A3), JHC117_37 (A3), Jaan_38 (A2), JeppNRM_37 (A3), Jester_30 (CA), JetBlade_34 (A4), Jobu08_36 (A3), Journey13_32 (A2), Jsquared_35 (A2), KFPoly_34 (A4), Kalb97_37 (A3), Kalnoky_37 (A3), Kalpine_36 (A2), Kamy_34 (A4), Katalie136_34 (A4), Kerberos_38 (A2), Kimona_31 (A19), Koduck_34 (A2), Koreni_33 (A4), Krishelle_30 (CA), Kyee_34 (A4), L5_34.1 (A2), LBerry_37 (A3), Landor_36 (A2), Lemur_34 (A4), Leogania_36 (A2), LittleB_34 (A4), LittleGuy_34 (A4), Lorenzo_34 (A4), LugYA_39 (A3), Lunsford_35 (A4), MA5_34 (A3), MK4_34 (A3), MadMarie_37 (A3), Mainiac_37 (A3), Malinsilva_39 (A3), Manu_37 (A3), Marius_37 (A3), Maverick_34 (A4), Maxo_34 (A4), Mazhar510_34 (A4), MeeZee_34 (A4), MiculUcigas_35 (A2), Miramae_34 (A4), Morpher26_34 (A4), MuchMore_39 (A3), Mundrea_34 (A4), MyraDee_31 (A18), NaSiaTalie_35 (A2), Naiad_30 (CA), Naji_38 (A2), Nancinator_30 (CA), Natosaleda_30 (CA), NearlyHeadless_31 (A8), Nebs_34 (A4), Nemo27_34 (A4), NicoleTera_38 (A2), Noelle_34 (A4), NorthStar_34 (A4), NotAPhaseMom_34 (A4), NothingSpecial_36 (A2), Nyxis_34 (A4), OKaNui_35 (A4), Odin_34 (A2), Ohfah_34 (A4), OlanP_36 (A3), Ollie_37 (A3), P28Green_37 (A3), PGHhamlin_39 (A3), Palestino_33 (A4), Partridge_30 (CA), Pawn_37 (A3), PeaceMeal1_33 (A10), Peaches_34 (A4), Pembroke_37 (A3), Penny1_37 (A3), Perplexer_34 (A4), PeterPeter_34 (A4), PetiteSangsue_34 (A4), Ph8s_36 (A2), Phacado_34 (A4), PhailMary_29 (CA), Phantastic_34 (A3), Felipe_34 (A4), Phighter1804_34 (A4), Phillis_31 (A8), PhishRPhriends_35 (A3), Phoebe_37 (A3), Phontbonne_34 (A4), Phrankenstein_30 (CA), Phranny_37 (A3), Pipcraft_34 (A4), Piro94_35 (A2), Pistachio_35 (A3), Polymorphads_34 (A4), Pomar16_38 (A2), Poompha_33 (A10), PotatoSplit_38 (A3), Pumbaa_34 (A4), Puppy_35 (A3), PurpleHaze_36 (A3), QueenB2_35 (A2), RGL3_23 (CA), Rasputin_30 (CA), Reba_37 (A3), Relief_34 (A4), Retro23_36 (A2), RexFury_30 (CA), Roary_31 (A8), Rockstar_34 (A3), Romney_34

(A4), Roosevelt_34 (A4), Ruin_34 (A4), Sabertooth_34 (A4), Scamp_34 (A4), Scout_34 (A3), Serenity_36 (A2), Severus_33 (A10), Shaka_34 (A4), Shuman_30 (CA), Shygu2_34 (A4), Skipitt_34 (A4), Smeadley_31 (A8), SnapTap_35 (A2), Snickers_37 (A3), SoYo_37 (A3), SoilDragon_36 (A3), SororFago_39 (A14), Spino_34 (A4), StCroix_30 (CA), Stagni_37 (A3), StarStuff_38 (A2), Stasia_35 (A4), StepMih_37 (A3), StepHig9_31 (A8), Stink_35 (A4), Superchunk_34 (A2), Swann_30 (CA), SweetiePie_35 (A2), SwirlSquare_36 (A2), TNguyen7_34 (A3), TWAMP_30 (CA), Takoda_30 (CA), Taquarus_34 (A4), TarsusIV_34 (A2), Thanksgivukkah_34 (A4), TinaFeyge_34 (A4), Tinybot_33 (A4), TipsytheTRex_34 (A2), Tomathan_38 (A2), Topanga_35 (A10), Trike_32 (A10), Trixie_36 (A2), Trooper_36 (A2), Twister_35 (A10), TygerBlood_34 (A4), UhSalsa_30 (CA), Ulysses_33 (A4), WalterMcMickey_35 (A10), Wander_34 (A4), Watson_37 (A3), Wilbur_34 (A4), Wile_34 (A4), Wizard007_34 (A4), Wooldri_39 (A3), Xena_34 (A4), Yecey3_36 (A9), YoSam321_34 (A4), Yogi_30 (CA), Yoncess_30 (CA), Zimmer_36 (A12),

Start 45:

- Found in 15 of 432 (3.5%) of genes in pham
- Manual Annotations of this start: 11 of 417
- Called 73.3% of time when present
- Phage (with cluster) where this start called: BuzzBuzz_36 (A3), Bxz2_35 (A3), Daishi_36 (A3), HashRod_38 (A3), KADY_38 (A3), LarryKay_37 (A3), Louie6_37 (A3), Methuselah_36 (A3), Misomonster_39 (A3), Phoxy_37 (A3), Spike509_37 (A3),

Start 46:

- Found in 93 of 432 (21.5%) of genes in pham
- Manual Annotations of this start: 58 of 417
- Called 65.6% of time when present
- Phage (with cluster) where this start called: AN3_34 (A2), AN9_37 (A2), ANI8_37 (A2), AbbyPaige_36 (A2), Agape74_36 (A2), Aleemily_119 (DZ), B1_32 (A3), Bactobuster_36 (A2), Baehexic_35 (A2), BellusTerra_34 (A4), BiancaTri92_36 (A2), C3_32 (A2), Cafasso_121 (DZ), Centaur_36 (A2), ChipMunk_37 (A2), Chupacabra_34 (A10), Dignity_36 (A2), Eagle_33 (A4), Eaglepride_36 (A10), Edison31_35 (A10), Equemioh13_36 (A2), EvilGenius_37 (A2), Fameo_35 (A2), FiringLine_35 (A2), Georgie2_36 (A2), Goose_35 (A10), HarryHoudini_37 (A2), IronMan_37 (A2), Iwokeuplikedis_35 (A2), Jerm_36 (A2), JoshKayV_36 (A2), KingCyrus_37 (A2), Kristoff_36 (A10), Larenn_36 (A2), Leviathan_36 (A2), LilTurb_35 (A2), Malec_37 (A2), Medusa_34 (A4), Melvin_35 (A4), ModicumRichard_121 (DZ), Morgana_128 (DZ), Morrow_34 (A4), OKCentral2016_34 (A10), ObLaDi_120 (DZ), Phaded_39 (A2), Power_34 (A2), Pukovnik_36 (A2), QueenBeesly_35 (A2), Rebeuca_36 (A10), SemperFi_36 (A2), Smeagan_37 (A2), Sparxx_34 (A4), TroyPia_34 (A4), Turbido_35 (A2), Updawg_36 (A2), VA6_34 (A2), VC3_37 (A2), WeiHuaDA_40 (A2), Whabigail7_35 (A2), WideWale_36 (A2), XianYue_36 (A2),

Start 47:

- Found in 77 of 432 (17.8%) of genes in pham
- Manual Annotations of this start: 2 of 417
- Called 3.9% of time when present
- Phage (with cluster) where this start called: Jaykayelowell_34 (A4), LappelDuVide_34 (A4), TiroTheta9_34 (A4),

Start 49:

- Found in 12 of 432 (2.8%) of genes in pham

- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: RER2_23 (CA),

Start 50:

- Found in 23 of 432 (5.3%) of genes in pham
- Manual Annotations of this start: 2 of 417
- Called 13.0% of time when present
- Phage (with cluster) where this start called: AvatarAhPeg_35 (A4), Kremtemulon_33 (A4), LochMonster_34 (A4),

Start 51:

- Found in 39 of 432 (9.0%) of genes in pham
- Manual Annotations of this start: 4 of 417
- Called 10.3% of time when present
- Phage (with cluster) where this start called: LHTSCC_35 (A4), LeoAvram_34 (A4), Obama12_35 (A4), SheldonCooper_35 (A4),

Start 52:

- Found in 102 of 432 (23.6%) of genes in pham
- Manual Annotations of this start: 1 of 417
- Called 1.0% of time when present
- Phage (with cluster) where this start called: Rummer_37 (A3),

Start 54:

- Found in 39 of 432 (9.0%) of genes in pham
- Manual Annotations of this start: 2 of 417
- Called 5.1% of time when present
- Phage (with cluster) where this start called: DudeLittle_34 (A2), Kratark_34 (A4),

Summary by clusters:

There are 16 clusters represented in this pham: A, A14, singleton, A10, A12, CA, A19, A18, A20, A3, A2, A5, A4, A9, A8, DZ,

Info for manual annotations of cluster A:

- Start number 44 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A10:

- Start number 44 was manually annotated 8 times for cluster A10.
- Start number 46 was manually annotated 6 times for cluster A10.

Info for manual annotations of cluster A12:

- Start number 44 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 44 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A18:

- Start number 44 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 44 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 44 was manually annotated 43 times for cluster A2.
- Start number 46 was manually annotated 40 times for cluster A2.
- Start number 54 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 43 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 21 was manually annotated 9 times for cluster A3.
- Start number 29 was manually annotated 1 time for cluster A3.
- Start number 40 was manually annotated 3 times for cluster A3.
- Start number 42 was manually annotated 2 times for cluster A3.
- Start number 44 was manually annotated 64 times for cluster A3.
- Start number 45 was manually annotated 11 times for cluster A3.
- Start number 46 was manually annotated 1 time for cluster A3.
- Start number 52 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A4:

- Start number 37 was manually annotated 1 time for cluster A4.
- Start number 39 was manually annotated 8 times for cluster A4.
- Start number 44 was manually annotated 109 times for cluster A4.
- Start number 46 was manually annotated 7 times for cluster A4.
- Start number 47 was manually annotated 2 times for cluster A4.
- Start number 50 was manually annotated 2 times for cluster A4.
- Start number 51 was manually annotated 4 times for cluster A4.
- Start number 54 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A5:

- Start number 43 was manually annotated 35 times for cluster A5.

Info for manual annotations of cluster A8:

- Start number 44 was manually annotated 10 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 43 was manually annotated 3 times for cluster A9.
- Start number 44 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster CA:

- Start number 44 was manually annotated 32 times for cluster CA.

Info for manual annotations of cluster DZ:

- Start number 46 was manually annotated 4 times for cluster DZ.

Gene Information:

Gene: ACFishhook_36 Start: 27097, Stop: 27534, Start Num: 44

Candidate Starts for ACFishhook_36:

(24, 26995), (Start: 44 @27097 has 273 MA's), (65, 27241), (74, 27283), (85, 27355), (87, 27367), (93, 27400), (94, 27403), (103, 27454), (104, 27457),

Gene: AN3_34 Start: 26808, Stop: 27242, Start Num: 46

Candidate Starts for AN3_34:

(Start: 44 @26805 has 273 MA's), (Start: 46 @26808 has 58 MA's), (63, 26928), (65, 26943), (74, 26985), (75, 26994), (84, 27051), (87, 27069), (93, 27102), (94, 27105),

Gene: AN9_37 Start: 26793, Stop: 27227, Start Num: 46

Candidate Starts for AN9_37:

(Start: 44 @26790 has 273 MA's), (Start: 46 @26793 has 58 MA's), (63, 26913), (65, 26928), (74, 26970), (75, 26979), (84, 27036), (87, 27054), (93, 27087), (94, 27090),

Gene: ANI8_37 Start: 26793, Stop: 27227, Start Num: 46

Candidate Starts for ANI8_37:

(Start: 44 @26790 has 273 MA's), (Start: 46 @26793 has 58 MA's), (63, 26913), (65, 26928), (74, 26970), (75, 26979), (84, 27036), (87, 27054), (93, 27087), (94, 27090),

Gene: AbbyPaige_36 Start: 27084, Stop: 27524, Start Num: 46

Candidate Starts for AbbyPaige_36:

(Start: 46 @27084 has 58 MA's), (Start: 51 @27111 has 4 MA's), (62, 27192), (63, 27204), (65, 27225), (74, 27267), (75, 27276), (83, 27330), (84, 27333), (85, 27339), (87, 27351), (92, 27378), (93, 27384),

Gene: AbbysRanger_34 Start: 26778, Stop: 27203, Start Num: 44

Candidate Starts for AbbysRanger_34:

(Start: 44 @26778 has 273 MA's), (57, 26835), (59, 26847), (63, 26889), (65, 26904), (66, 26907), (67, 26913), (79, 26988), (84, 27009), (87, 27027), (93, 27060), (94, 27063), (97, 27084),

Gene: Abdiel_33 Start: 26630, Stop: 27076, Start Num: 44

Candidate Starts for Abdiel_33:

(5, 26441), (7, 26480), (12, 26492), (Start: 44 @26630 has 273 MA's), (Start: 46 @26633 has 58 MA's), (48, 26639), (Start: 51 @26660 has 4 MA's), (60, 26726), (65, 26774), (66, 26777), (68, 26786), (74, 26816), (83, 26879), (85, 26888), (93, 26933),

Gene: Achebe_33 Start: 26761, Stop: 27186, Start Num: 44

Candidate Starts for Achebe_33:

(Start: 44 @26761 has 273 MA's), (57, 26818), (59, 26830), (63, 26872), (65, 26887), (66, 26890), (67, 26896), (79, 26971), (84, 26992), (87, 27010), (93, 27043), (94, 27046), (97, 27067),

Gene: Acolyte_35 Start: 27459, Stop: 27911, Start Num: 44

Candidate Starts for Acolyte_35:

(Start: 44 @27459 has 273 MA's), (65, 27603), (79, 27690), (83, 27708), (84, 27711), (85, 27717), (87, 27729), (93, 27762),

Gene: Adzzy_36 Start: 25549, Stop: 25989, Start Num: 44

Candidate Starts for Adzzy_36:

(Start: 44 @25549 has 273 MA's), (59, 25630), (66, 25690), (68, 25699), (75, 25738), (85, 25801), (87, 25813), (93, 25846), (94, 25849), (103, 25900), (104, 25903), (106, 25909), (113, 25942), (116, 25951), (122, 25972),

Gene: Agape74_36 Start: 27060, Stop: 27500, Start Num: 46

Candidate Starts for Agape74_36:

(Start: 46 @27060 has 58 MA's), (Start: 51 @27087 has 4 MA's), (62, 27168), (63, 27180), (65, 27201), (74, 27243), (75, 27252), (83, 27306), (84, 27309), (85, 27315), (87, 27327), (92, 27354), (93,

27360), (102, 27408),

Gene: AgentM_31 Start: 26023, Stop: 26442, Start Num: 43

Candidate Starts for AgentM_31:

(Start: 43 @26023 has 40 MA's), (57, 26080), (65, 26155), (84, 26263), (87, 26281), (92, 26308), (93, 26314), (94, 26317), (102, 26362), (104, 26371),

Gene: Aglet_37 Start: 27201, Stop: 27632, Start Num: 44

Candidate Starts for Aglet_37:

(19, 27087), (Start: 21 @27093 has 9 MA's), (Start: 44 @27201 has 273 MA's), (57, 27270), (65, 27339), (66, 27342), (75, 27390), (85, 27453), (87, 27465), (93, 27498), (94, 27501), (103, 27552), (104, 27555), (114, 27594),

Gene: AgronaGT15_37 Start: 27217, Stop: 27654, Start Num: 42

Candidate Starts for AgronaGT15_37:

(31, 27139), (Start: 42 @27217 has 2 MA's), (Start: 45 @27223 has 11 MA's), (Start: 52 @27247 has 1 MA's), (63, 27334), (65, 27355), (66, 27358), (71, 27382), (79, 27442), (81, 27448), (84, 27463), (85, 27469), (91, 27511), (93, 27520), (94, 27523), (103, 27574), (104, 27577), (114, 27616),

Gene: Airmid_32 Start: 25650, Stop: 26069, Start Num: 43

Candidate Starts for Airmid_32:

(Start: 43 @25650 has 40 MA's), (59, 25719), (60, 25734), (63, 25761), (65, 25782), (81, 25875), (84, 25890), (87, 25908), (92, 25935), (93, 25941), (94, 25944), (102, 25989), (104, 25998),

Gene: Alatin_30 Start: 24253, Stop: 24729, Start Num: 44

Candidate Starts for Alatin_30:

(Start: 44 @24253 has 273 MA's), (49, 24268), (65, 24406), (66, 24409), (69, 24421), (71, 24433), (78, 24496), (80, 24502), (87, 24538), (100, 24613), (103, 24634), (104, 24637), (109, 24670),

Gene: Albee_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Albee_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Alberto7_35 Start: 27068, Stop: 27496, Start Num: 44

Candidate Starts for Alberto7_35:

(Start: 37 @27026 has 1 MA's), (Start: 44 @27068 has 273 MA's), (Start: 50 @27086 has 2 MA's), (Start: 54 @27110 has 2 MA's), (63, 27179), (65, 27194), (67, 27203), (68, 27206), (71, 27221), (80, 27284), (84, 27302), (85, 27308), (87, 27320), (90, 27344), (92, 27347), (93, 27353),

Gene: Aleemily_119 Start: 65331, Stop: 64822, Start Num: 46

Candidate Starts for Aleemily_119:

(1, 65634), (9, 65487), (Start: 45 @65334 has 11 MA's), (Start: 46 @65331 has 58 MA's), (Start: 52 @65307 has 1 MA's), (63, 65220), (74, 65157), (75, 65148), (84, 65094), (85, 65088),

Gene: Alpacados_29 Start: 24122, Stop: 24598, Start Num: 44

Candidate Starts for Alpacados_29:

(Start: 44 @24122 has 273 MA's), (49, 24137), (65, 24275), (66, 24278), (69, 24290), (71, 24302), (78, 24365), (80, 24371), (87, 24407), (100, 24482), (103, 24503), (104, 24506), (109, 24539),

Gene: AngryOrchard_29 Start: 24118, Stop: 24594, Start Num: 44

Candidate Starts for AngryOrchard_29:

(Start: 44 @24118 has 273 MA's), (65, 24271), (66, 24274), (69, 24286), (71, 24298), (78, 24361), (80, 24367), (87, 24403), (100, 24478), (102, 24493), (103, 24499), (104, 24502),

Gene: Annyong_34 Start: 26711, Stop: 27136, Start Num: 44

Candidate Starts for Annyong_34:

(32, 26630), (Start: 39 @26690 has 8 MA's), (Start: 44 @26711 has 273 MA's), (Start: 47 @26717 has 2 MA's), (Start: 52 @26735 has 1 MA's), (57, 26768), (59, 26780), (63, 26822), (65, 26837), (79, 26921), (84, 26942), (85, 26948), (87, 26960), (93, 26993), (94, 26996), (97, 27017),

Gene: Anselm_36 Start: 27172, Stop: 27609, Start Num: 44

Candidate Starts for Anselm_36:

(19, 27061), (Start: 29 @27085 has 1 MA's), (Start: 44 @27172 has 273 MA's), (57, 27241), (63, 27295), (65, 27310), (74, 27352), (75, 27361), (83, 27415), (84, 27418), (85, 27424), (87, 27436), (93, 27469),

Gene: Anthony_34 Start: 25209, Stop: 25643, Start Num: 43

Candidate Starts for Anthony_34:

(Start: 43 @25209 has 40 MA's), (53, 25242), (58, 25275), (59, 25278), (63, 25320), (67, 25350), (69, 25356), (83, 25446), (87, 25467), (99, 25530), (101, 25539), (103, 25554), (104, 25557), (106, 25563), (111, 25596), (115, 25605), (119, 25614), (121, 25626),

Gene: Anubis_39 Start: 26978, Stop: 27517, Start Num: 21

Candidate Starts for Anubis_39:

(19, 26972), (Start: 21 @26978 has 9 MA's), (Start: 44 @27086 has 273 MA's), (57, 27155), (65, 27224), (66, 27227), (75, 27275), (85, 27338), (87, 27350), (93, 27383), (94, 27386), (103, 27437), (104, 27440), (114, 27479),

Gene: Aragog_31 Start: 26053, Stop: 26472, Start Num: 43

Candidate Starts for Aragog_31:

(Start: 43 @26053 has 40 MA's), (57, 26110), (65, 26185), (84, 26293), (87, 26311), (92, 26338), (93, 26344), (94, 26347), (102, 26392), (104, 26401),

Gene: Archetta_31 Start: 26159, Stop: 26578, Start Num: 43

Candidate Starts for Archetta_31:

(Start: 43 @26159 has 40 MA's), (59, 26228), (60, 26243), (63, 26270), (65, 26291), (81, 26384), (84, 26399), (87, 26417), (92, 26444), (93, 26450), (94, 26453), (102, 26498), (104, 26507),

Gene: Arturo_33 Start: 26841, Stop: 27311, Start Num: 37

Candidate Starts for Arturo_33:

(Start: 37 @26841 has 1 MA's), (Start: 44 @26883 has 273 MA's), (Start: 50 @26901 has 2 MA's), (Start: 54 @26925 has 2 MA's), (63, 26994), (65, 27009), (67, 27018), (68, 27021), (71, 27036), (80, 27099), (83, 27114), (85, 27123), (87, 27135), (92, 27162), (93, 27168),

Gene: Astro_31 Start: 25165, Stop: 25587, Start Num: 44

Candidate Starts for Astro_31:

(11, 25027), (17, 25042), (24, 25066), (25, 25069), (Start: 44 @25165 has 273 MA's), (57, 25222), (63, 25276), (65, 25297), (68, 25309), (71, 25324), (73, 25330), (79, 25384), (80, 25387), (83, 25402), (86, 25414), (87, 25423), (92, 25450), (93, 25456), (94, 25459), (104, 25513), (105, 25516), (108, 25537),

Gene: AugsMagnumOpus_39 Start: 27192, Stop: 27623, Start Num: 44

Candidate Starts for AugsMagnumOpus_39:

(19, 27078), (Start: 21 @27084 has 9 MA's), (Start: 44 @27192 has 273 MA's), (57, 27261), (65, 27330), (66, 27333), (75, 27381), (85, 27444), (87, 27456), (93, 27489), (94, 27492), (103, 27543),

(104, 27546), (114, 27585),

Gene: AvatarAhPeg_35 Start: 27391, Stop: 27801, Start Num: 50

Candidate Starts for AvatarAhPeg_35:

(Start: 44 @27373 has 273 MA's), (Start: 50 @27391 has 2 MA's), (59, 27442), (63, 27484), (65, 27499), (67, 27508), (68, 27511), (80, 27589), (84, 27607), (85, 27613), (87, 27625), (93, 27658), (100, 27691), (118, 27769),

Gene: Avle17_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Avle17_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: B1_32 Start: 26231, Stop: 26653, Start Num: 46

Candidate Starts for B1_32:

(Start: 44 @26228 has 273 MA's), (Start: 46 @26231 has 58 MA's), (63, 26351), (65, 26366), (83, 26471), (85, 26480), (87, 26492), (93, 26525), (103, 26579), (104, 26582), (114, 26615),

Gene: Baby16_34 Start: 26721, Stop: 27146, Start Num: 44

Candidate Starts for Baby16_34:

(10, 26574), (18, 26598), (32, 26640), (Start: 39 @26700 has 8 MA's), (Start: 44 @26721 has 273 MA's), (Start: 47 @26727 has 2 MA's), (Start: 52 @26745 has 1 MA's), (57, 26778), (59, 26790), (63, 26832), (65, 26847), (79, 26931), (84, 26952), (85, 26958), (87, 26970), (93, 27003), (94, 27006), (97, 27027),

Gene: BabyBack_34 Start: 27951, Stop: 28376, Start Num: 44

Candidate Starts for BabyBack_34:

(Start: 44 @27951 has 273 MA's), (Start: 52 @27975 has 1 MA's), (63, 28062), (65, 28077), (68, 28089), (83, 28182), (85, 28191), (87, 28203), (93, 28236), (94, 28239), (102, 28284), (105, 28296),

Gene: BabyRay_34 Start: 26773, Stop: 27204, Start Num: 44

Candidate Starts for BabyRay_34:

(8, 26623), (13, 26635), (16, 26644), (26, 26674), (Start: 44 @26773 has 273 MA's), (Start: 51 @26803 has 4 MA's), (Start: 54 @26827 has 2 MA's), (64, 26899), (65, 26917), (67, 26926), (68, 26929), (74, 26959), (75, 26968), (80, 27007), (83, 27022), (85, 27031), (87, 27043), (93, 27076), (114, 27166),

Gene: Backyardigan_34 Start: 26773, Stop: 27198, Start Num: 44

Candidate Starts for Backyardigan_34:

(Start: 44 @26773 has 273 MA's), (57, 26830), (59, 26842), (63, 26884), (65, 26899), (66, 26902), (67, 26908), (79, 26983), (84, 27004), (87, 27022), (93, 27055), (94, 27058), (97, 27079),

Gene: Bactobuster_36 Start: 28381, Stop: 28815, Start Num: 46

Candidate Starts for Bactobuster_36:

(Start: 46 @28381 has 58 MA's), (65, 28516), (74, 28558), (83, 28621), (87, 28642), (93, 28675),

Gene: Badger_34 Start: 26762, Stop: 27187, Start Num: 44

Candidate Starts for Badger_34:

(Start: 44 @26762 has 273 MA's), (57, 26819), (59, 26831), (63, 26873), (65, 26888), (66, 26891), (67, 26897), (79, 26972), (84, 26993), (87, 27011), (93, 27044), (94, 27047), (97, 27068),

Gene: Baehexic_35 Start: 27243, Stop: 27677, Start Num: 46

Candidate Starts for Baehexic_35:

(34, 27177), (Start: 46 @27243 has 58 MA's), (Start: 54 @27294 has 2 MA's), (63, 27363), (65, 27378), (69, 27393), (74, 27420), (75, 27429), (83, 27483), (93, 27537), (94, 27540),

Gene: BangNhom_34 Start: 26967, Stop: 27413, Start Num: 44

Candidate Starts for BangNhom_34:

(Start: 44 @26967 has 273 MA's), (Start: 46 @26970 has 58 MA's), (48, 26976), (Start: 51 @26997 has 4 MA's), (60, 27063), (65, 27111), (66, 27114), (68, 27123), (74, 27153), (83, 27216), (84, 27219), (85, 27225), (93, 27270), (118, 27381),

Gene: Bartimeaus_34 Start: 26712, Stop: 27137, Start Num: 44

Candidate Starts for Bartimeaus_34:

(10, 26565), (18, 26589), (32, 26631), (Start: 39 @26691 has 8 MA's), (Start: 44 @26712 has 273 MA's), (Start: 47 @26718 has 2 MA's), (Start: 52 @26736 has 1 MA's), (57, 26769), (59, 26781), (63, 26823), (65, 26838), (79, 26922), (84, 26943), (85, 26949), (87, 26961), (93, 26994), (94, 26997), (97, 27018),

Gene: Beauxregard13_37 Start: 27200, Stop: 27631, Start Num: 44

Candidate Starts for Beauxregard13_37:

(19, 27086), (Start: 21 @27092 has 9 MA's), (Start: 44 @27200 has 273 MA's), (57, 27269), (65, 27338), (66, 27341), (75, 27389), (85, 27452), (87, 27464), (93, 27497), (94, 27500), (103, 27551), (104, 27554), (114, 27593),

Gene: Belenaria_30 Start: 24187, Stop: 24663, Start Num: 44

Candidate Starts for Belenaria_30:

(Start: 44 @24187 has 273 MA's), (65, 24340), (66, 24343), (69, 24355), (71, 24367), (78, 24430), (80, 24436), (87, 24472), (100, 24547), (103, 24568), (104, 24571), (109, 24604),

Gene: BellusTerra_34 Start: 26633, Stop: 27076, Start Num: 46

Candidate Starts for BellusTerra_34:

(Start: 44 @26630 has 273 MA's), (Start: 46 @26633 has 58 MA's), (48, 26639), (Start: 51 @26660 has 4 MA's), (60, 26726), (65, 26774), (66, 26777), (68, 26786), (74, 26816), (83, 26879), (85, 26888), (93, 26933),

Gene: Benedict_32 Start: 25653, Stop: 26072, Start Num: 43

Candidate Starts for Benedict_32:

(Start: 43 @25653 has 40 MA's), (59, 25722), (60, 25737), (63, 25764), (65, 25785), (81, 25878), (84, 25893), (87, 25911), (92, 25938), (93, 25944), (94, 25947), (102, 25992), (104, 26001),

Gene: BiancaTri92_36 Start: 28056, Stop: 28490, Start Num: 46

Candidate Starts for BiancaTri92_36:

(34, 27990), (Start: 46 @28056 has 58 MA's), (65, 28191), (74, 28233), (75, 28242), (83, 28296), (85, 28305), (87, 28317), (93, 28350), (94, 28353),

Gene: Blackmoor_34 Start: 26712, Stop: 27137, Start Num: 44

Candidate Starts for Blackmoor_34:

(10, 26565), (18, 26589), (32, 26631), (Start: 39 @26691 has 8 MA's), (Start: 44 @26712 has 273 MA's), (Start: 47 @26718 has 2 MA's), (Start: 52 @26736 has 1 MA's), (57, 26769), (59, 26781), (63, 26823), (65, 26838), (79, 26922), (84, 26943), (85, 26949), (87, 26961), (93, 26994), (94, 26997), (97, 27018),

Gene: BlueBird_35 Start: 26708, Stop: 27133, Start Num: 44

Candidate Starts for BlueBird_35:

(19, 26594), (Start: 21 @26600 has 9 MA's), (Start: 40 @26693 has 3 MA's), (Start: 44 @26708 has 273 MA's), (65, 26846), (83, 26951), (84, 26954), (85, 26960), (87, 26972), (93, 27005), (94, 27008), (104, 27062), (114, 27095),

Gene: Bluefalcon_30 Start: 26103, Stop: 26531, Start Num: 43

Candidate Starts for Bluefalcon_30:

(Start: 43 @26103 has 40 MA's), (57, 26160), (65, 26235), (75, 26286), (84, 26343), (87, 26361), (93, 26394), (94, 26397), (102, 26442), (104, 26451), (111, 26487),

Gene: BobbyDazzler_30 Start: 24232, Stop: 24708, Start Num: 44

Candidate Starts for BobbyDazzler_30:

(Start: 44 @24232 has 273 MA's), (65, 24385), (66, 24388), (69, 24400), (71, 24412), (78, 24475), (80, 24481), (87, 24517), (100, 24592), (103, 24613), (104, 24616),

Gene: Bombshell_34 Start: 26689, Stop: 27135, Start Num: 39

Candidate Starts for Bombshell_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Bonamassa_31 Start: 25944, Stop: 26372, Start Num: 43

Candidate Starts for Bonamassa_31:

(Start: 43 @25944 has 40 MA's), (57, 26001), (65, 26076), (75, 26127), (84, 26184), (87, 26202), (92, 26229), (93, 26235), (94, 26238), (102, 26283), (104, 26292), (111, 26328),

Gene: Bonanza_30 Start: 24160, Stop: 24636, Start Num: 44

Candidate Starts for Bonanza_30:

(Start: 44 @24160 has 273 MA's), (65, 24313), (66, 24316), (69, 24328), (71, 24340), (78, 24403), (80, 24409), (87, 24445), (100, 24520), (103, 24541), (104, 24544), (109, 24577),

Gene: Bradshaw_30 Start: 24186, Stop: 24662, Start Num: 44

Candidate Starts for Bradshaw_30:

(Start: 44 @24186 has 273 MA's), (49, 24201), (65, 24339), (66, 24342), (69, 24354), (71, 24366), (78, 24429), (80, 24435), (87, 24471), (100, 24546), (103, 24567), (104, 24570), (109, 24603),

Gene: BreSam8_37 Start: 27193, Stop: 27624, Start Num: 44

Candidate Starts for BreSam8_37:

(19, 27079), (Start: 21 @27085 has 9 MA's), (Start: 44 @27193 has 273 MA's), (57, 27262), (65, 27331), (66, 27334), (75, 27382), (85, 27445), (87, 27457), (93, 27490), (94, 27493), (103, 27544), (104, 27547), (114, 27586),

Gene: Broseidon_34 Start: 26712, Stop: 27137, Start Num: 44

Candidate Starts for Broseidon_34:

(10, 26565), (18, 26589), (32, 26631), (Start: 39 @26691 has 8 MA's), (Start: 44 @26712 has 273 MA's), (Start: 47 @26718 has 2 MA's), (Start: 52 @26736 has 1 MA's), (57, 26769), (59, 26781), (63, 26823), (65, 26838), (79, 26922), (84, 26943), (85, 26949), (87, 26961), (93, 26994), (94, 26997), (97, 27018),

Gene: Bruiser_33 Start: 26689, Stop: 27135, Start Num: 39

Candidate Starts for Bruiser_33:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Bryce_30 Start: 24161, Stop: 24637, Start Num: 44

Candidate Starts for Bryce_30:

(Start: 44 @24161 has 273 MA's), (65, 24314), (66, 24317), (69, 24329), (71, 24341), (78, 24404), (80, 24410), (87, 24446), (100, 24521), (103, 24542), (104, 24545),

Gene: BubbleTrouble_34 Start: 26689, Stop: 27135, Start Num: 39

Candidate Starts for BubbleTrouble_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Buggy_37 Start: 27385, Stop: 27822, Start Num: 44

Candidate Starts for Buggy_37:

(19, 27274), (Start: 29 @27298 has 1 MA's), (Start: 44 @27385 has 273 MA's), (57, 27454), (63, 27508), (65, 27523), (74, 27565), (75, 27574), (83, 27628), (85, 27637), (93, 27682), (94, 27685),

Gene: Bumblebee11_34 Start: 26764, Stop: 27189, Start Num: 44

Candidate Starts for Bumblebee11_34:

(Start: 44 @26764 has 273 MA's), (57, 26821), (59, 26833), (63, 26875), (65, 26890), (66, 26893), (67, 26899), (79, 26974), (84, 26995), (87, 27013), (93, 27046), (94, 27049), (97, 27070),

Gene: Burger_33 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Burger_33:

(32, 26629), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: BuzzBuzz_36 Start: 27402, Stop: 27833, Start Num: 45

Candidate Starts for BuzzBuzz_36:

(31, 27318), (Start: 42 @27396 has 2 MA's), (Start: 45 @27402 has 11 MA's), (Start: 52 @27426 has 1 MA's), (63, 27513), (65, 27534), (66, 27537), (79, 27621), (81, 27627), (84, 27642), (85, 27648), (91, 27690), (93, 27699), (94, 27702), (103, 27753), (104, 27756), (114, 27795),

Gene: Bxz2_35 Start: 27409, Stop: 27840, Start Num: 45

Candidate Starts for Bxz2_35:

(31, 27325), (Start: 42 @27403 has 2 MA's), (Start: 45 @27409 has 11 MA's), (Start: 52 @27433 has 1 MA's), (63, 27520), (65, 27541), (66, 27544), (71, 27568), (79, 27628), (81, 27634), (84, 27649), (85, 27655), (91, 27697), (93, 27706), (94, 27709), (103, 27760), (104, 27763), (114, 27802),

Gene: C3_32 Start: 26793, Stop: 27227, Start Num: 46

Candidate Starts for C3_32:

(Start: 44 @26790 has 273 MA's), (Start: 46 @26793 has 58 MA's), (63, 26913), (65, 26928), (74, 26970), (75, 26979), (84, 27036), (87, 27054), (93, 27087), (94, 27090),

Gene: Caelakin_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Caelakin_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Cafasso_121 Start: 65936, Stop: 65427, Start Num: 46

Candidate Starts for Cafasso_121:

(1, 66239), (9, 66092), (Start: 46 @65936 has 58 MA's), (Start: 52 @65912 has 1 MA's), (63, 65825), (74, 65762), (75, 65753), (84, 65699), (85, 65693),

Gene: Camperdownii_33 Start: 26401, Stop: 26829, Start Num: 44

Candidate Starts for Camperdownii_33:

(22, 26296), (23, 26299), (Start: 37 @26359 has 1 MA's), (Start: 44 @26401 has 273 MA's), (Start: 50 @26419 has 2 MA's), (Start: 54 @26443 has 2 MA's), (63, 26512), (65, 26527), (67, 26536), (68, 26539), (71, 26554), (80, 26617), (84, 26635), (85, 26641), (87, 26653), (92, 26680), (93, 26686),

Gene: Caraxes_34 Start: 25405, Stop: 25860, Start Num: 44

Candidate Starts for Caraxes_34:

(Start: 44 @25405 has 273 MA's), (57, 25474), (59, 25486), (63, 25528), (65, 25543), (66, 25546), (67, 25552), (68, 25555), (75, 25594), (87, 25669), (93, 25702), (94, 25705), (103, 25756), (104, 25759),

Gene: Centaur_36 Start: 27221, Stop: 27655, Start Num: 46

Candidate Starts for Centaur_36:

(34, 27155), (Start: 46 @27221 has 58 MA's), (Start: 54 @27272 has 2 MA's), (65, 27356), (74, 27398), (75, 27407), (83, 27461), (84, 27464), (85, 27470), (87, 27482), (93, 27515),

Gene: CentreCat_34 Start: 26713, Stop: 27138, Start Num: 44

Candidate Starts for CentreCat_34:

(10, 26566), (18, 26590), (32, 26632), (Start: 39 @26692 has 8 MA's), (Start: 44 @26713 has 273 MA's), (Start: 47 @26719 has 2 MA's), (Start: 52 @26737 has 1 MA's), (57, 26770), (59, 26782), (63, 26824), (65, 26839), (79, 26923), (84, 26944), (85, 26950), (87, 26962), (93, 26995), (94, 26998), (97, 27019),

Gene: Cerulean_35 Start: 26968, Stop: 27414, Start Num: 44

Candidate Starts for Cerulean_35:

(Start: 44 @26968 has 273 MA's), (Start: 46 @26971 has 58 MA's), (48, 26977), (Start: 51 @26998 has 4 MA's), (60, 27064), (65, 27112), (66, 27115), (68, 27124), (74, 27154), (83, 27217), (84, 27220), (85, 27226), (93, 27271), (118, 27382),

Gene: Chadwick_33 Start: 25547, Stop: 25975, Start Num: 43

Candidate Starts for Chadwick_33:

(Start: 43 @25547 has 40 MA's), (59, 25616), (60, 25631), (63, 25658), (65, 25679), (81, 25772), (84, 25787), (87, 25805), (92, 25832), (93, 25838), (94, 25841), (102, 25886), (104, 25895), (111, 25931),

Gene: ChampagnePapi_35 Start: 26967, Stop: 27413, Start Num: 44

Candidate Starts for ChampagnePapi_35:

(Start: 44 @26967 has 273 MA's), (Start: 46 @26970 has 58 MA's), (48, 26976), (Start: 51 @26997 has 4 MA's), (60, 27063), (65, 27111), (66, 27114), (68, 27123), (74, 27153), (83, 27216), (85, 27225), (93, 27270), (118, 27381),

Gene: Chaph_34 Start: 26721, Stop: 27146, Start Num: 44

Candidate Starts for Chaph_34:

(32, 26640), (Start: 39 @26700 has 8 MA's), (Start: 44 @26721 has 273 MA's), (Start: 47 @26727 has 2 MA's), (Start: 52 @26745 has 1 MA's), (57, 26778), (59, 26790), (63, 26832), (65, 26847), (79, 26931), (84, 26952), (85, 26958), (87, 26970), (93, 27003), (94, 27006), (97, 27027),

Gene: Chargerpower_36 Start: 26499, Stop: 26924, Start Num: 44

Candidate Starts for Chargerpower_36:

(Start: 44 @26499 has 273 MA's), (Start: 52 @26523 has 1 MA's), (65, 26625), (76, 26682), (83, 26730), (87, 26751), (93, 26784), (102, 26832),

Gene: Charm_34 Start: 26512, Stop: 26937, Start Num: 43

Candidate Starts for Charm_34:

(Start: 43 @26512 has 40 MA's), (Start: 52 @26536 has 1 MA's), (63, 26623), (65, 26644), (71, 26671), (81, 26737), (83, 26749), (87, 26770), (93, 26803), (103, 26857), (104, 26860),

Gene: Che12_37 Start: 25786, Stop: 26241, Start Num: 44

Candidate Starts for Che12_37:

(Start: 44 @25786 has 273 MA's), (61, 25891), (63, 25909), (65, 25924), (67, 25933), (68, 25936), (75, 25975), (87, 26050), (93, 26083), (94, 26086), (103, 26137), (104, 26140), (106, 26146),

Gene: ChipMunk_37 Start: 28511, Stop: 28951, Start Num: 46

Candidate Starts for ChipMunk_37:

(Start: 46 @28511 has 58 MA's), (Start: 51 @28538 has 4 MA's), (62, 28619), (63, 28631), (65, 28652), (74, 28694), (75, 28703), (83, 28757), (84, 28760), (85, 28766), (87, 28778), (92, 28805), (93, 28811),

Gene: Chupacabra_34 Start: 26742, Stop: 27158, Start Num: 46

Candidate Starts for Chupacabra_34:

(34, 26670), (Start: 46 @26742 has 58 MA's), (Start: 54 @26778 has 2 MA's), (63, 26847), (65, 26862), (68, 26874), (84, 26967), (85, 26973), (87, 26985), (93, 27018), (105, 27078),

Gene: Cici_34 Start: 26758, Stop: 27183, Start Num: 44

Candidate Starts for Cici_34:

(Start: 44 @26758 has 273 MA's), (57, 26815), (59, 26827), (63, 26869), (65, 26884), (66, 26887), (67, 26893), (79, 26968), (84, 26989), (87, 27007), (93, 27040), (94, 27043), (97, 27064),

Gene: Cindaradix_33 Start: 26509, Stop: 26937, Start Num: 44

Candidate Starts for Cindaradix_33:

(Start: 44 @26509 has 273 MA's), (Start: 50 @26527 has 2 MA's), (Start: 54 @26551 has 2 MA's), (63, 26620), (65, 26635), (68, 26647), (80, 26725), (83, 26740), (85, 26749), (87, 26761), (92, 26788), (93, 26794),

Gene: Cintron_34 Start: 26776, Stop: 27201, Start Num: 44

Candidate Starts for Cintron_34:

(32, 26695), (38, 26746), (Start: 44 @26776 has 273 MA's), (Start: 47 @26782 has 2 MA's), (Start: 52 @26800 has 1 MA's), (57, 26833), (59, 26845), (63, 26887), (65, 26902), (79, 26986), (84, 27007), (85, 27013), (87, 27025), (93, 27058), (94, 27061), (122, 27184),

Gene: Citius_34 Start: 26725, Stop: 27150, Start Num: 44

Candidate Starts for Citius_34:

(32, 26644), (Start: 39 @26704 has 8 MA's), (Start: 44 @26725 has 273 MA's), (Start: 47 @26731 has 2 MA's), (Start: 52 @26749 has 1 MA's), (57, 26782), (59, 26794), (63, 26836), (65, 26851), (79, 26935), (84, 26956), (85, 26962), (87, 26974), (93, 27007), (94, 27010), (97, 27031),

Gene: Clarenza_34 Start: 26686, Stop: 27132, Start Num: 39

Candidate Starts for Clarenza_34:

(32, 26626), (Start: 39 @26686 has 8 MA's), (Start: 44 @26707 has 273 MA's), (Start: 47 @26713 has 2 MA's), (Start: 52 @26731 has 1 MA's), (57, 26764), (59, 26776), (63, 26818), (65, 26833), (79, 26917), (84, 26938), (85, 26944), (87, 26956), (93, 26989), (94, 26992), (97, 27013),

Gene: Cocoaberry_34 Start: 26714, Stop: 27139, Start Num: 44

Candidate Starts for Cocoaberry_34:

(32, 26633), (Start: 39 @26693 has 8 MA's), (Start: 44 @26714 has 273 MA's), (Start: 47 @26720 has 2 MA's), (Start: 52 @26738 has 1 MA's), (57, 26771), (59, 26783), (63, 26825), (65, 26840), (79, 26924), (84, 26945), (85, 26951), (87, 26963), (93, 26996), (94, 26999), (97, 27020),

Gene: Colbster_37 Start: 27200, Stop: 27631, Start Num: 44

Candidate Starts for Colbster_37:

(19, 27086), (Start: 21 @27092 has 9 MA's), (Start: 44 @27200 has 273 MA's), (57, 27269), (65, 27338), (66, 27341), (75, 27389), (85, 27452), (87, 27464), (93, 27497), (94, 27500), (103, 27551), (104, 27554), (114, 27593),

Gene: Colin_39 Start: 28219, Stop: 28650, Start Num: 44

Candidate Starts for Colin_39:

(Start: 44 @28219 has 273 MA's), (62, 28330), (63, 28342), (65, 28363), (73, 28396), (83, 28462), (85, 28471), (87, 28483), (92, 28510), (93, 28516), (96, 28531), (103, 28570), (114, 28612), (120, 28627),

Gene: Commander_34 Start: 26631, Stop: 27077, Start Num: 44

Candidate Starts for Commander_34:

(Start: 44 @26631 has 273 MA's), (Start: 46 @26634 has 58 MA's), (48, 26640), (Start: 51 @26661 has 4 MA's), (60, 26727), (65, 26775), (66, 26778), (68, 26787), (74, 26817), (83, 26880), (85, 26889), (93, 26934),

Gene: Connomayer_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Connomayer_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Conspiracy_31 Start: 25853, Stop: 26272, Start Num: 43

Candidate Starts for Conspiracy_31:

(Start: 43 @25853 has 40 MA's), (57, 25910), (65, 25985), (84, 26093), (87, 26111), (92, 26138), (93, 26144), (94, 26147), (102, 26192), (104, 26201),

Gene: Crucio_35 Start: 26780, Stop: 27217, Start Num: 44

Candidate Starts for Crucio_35:

(19, 26669), (Start: 29 @26693 has 1 MA's), (Start: 44 @26780 has 273 MA's), (57, 26849), (63, 26903), (65, 26918), (74, 26960), (75, 26969), (83, 27023), (85, 27032), (87, 27044), (93, 27077),

Gene: Cuco_31 Start: 25943, Stop: 26371, Start Num: 43

Candidate Starts for Cuco_31:

(Start: 43 @25943 has 40 MA's), (57, 26000), (65, 26075), (75, 26126), (84, 26183), (87, 26201), (92, 26228), (93, 26234), (94, 26237), (102, 26282), (104, 26291), (111, 26327),

Gene: Cullens_37 Start: 27199, Stop: 27630, Start Num: 44

Candidate Starts for Cullens_37:

(19, 27085), (Start: 21 @27091 has 9 MA's), (Start: 44 @27199 has 273 MA's), (57, 27268), (65, 27337), (66, 27340), (75, 27388), (85, 27451), (87, 27463), (93, 27496), (94, 27499), (103, 27550), (104, 27553), (114, 27592),

Gene: D29_34.1 Start: 26865, Stop: 27302, Start Num: 44

Candidate Starts for D29_34.1:

(Start: 44 @26865 has 273 MA's), (63, 26988), (65, 27003), (74, 27045), (75, 27054), (84, 27111), (87, 27129), (93, 27162), (94, 27165), (97, 27186),

Gene: D32_38 Start: 26865, Stop: 27302, Start Num: 44

Candidate Starts for D32_38:

(Start: 44 @26865 has 273 MA's), (63, 26988), (65, 27003), (74, 27045), (75, 27054), (84, 27111), (87, 27129), (93, 27162), (94, 27165), (97, 27186),

Gene: DBQu4n_38 Start: 26865, Stop: 27302, Start Num: 44

Candidate Starts for DBQu4n_38:

(Start: 44 @26865 has 273 MA's), (63, 26988), (65, 27003), (74, 27045), (75, 27054), (83, 27108), (84, 27111), (87, 27129), (93, 27162), (94, 27165),

Gene: DaHudson_37 Start: 27192, Stop: 27623, Start Num: 44

Candidate Starts for DaHudson_37:

(19, 27078), (Start: 21 @27084 has 9 MA's), (Start: 44 @27192 has 273 MA's), (57, 27261), (65, 27330), (66, 27333), (75, 27381), (85, 27444), (87, 27456), (93, 27489), (94, 27492), (103, 27543), (104, 27546), (114, 27585),

Gene: Daishi_36 Start: 26243, Stop: 26674, Start Num: 45

Candidate Starts for Daishi_36:

(31, 26159), (Start: 42 @26237 has 2 MA's), (Start: 45 @26243 has 11 MA's), (Start: 52 @26267 has 1 MA's), (63, 26354), (65, 26375), (66, 26378), (71, 26402), (79, 26462), (81, 26468), (84, 26483), (85, 26489), (91, 26531), (93, 26540), (94, 26543), (103, 26594), (104, 26597), (114, 26636),

Gene: Dalmatian_36 Start: 27148, Stop: 27585, Start Num: 44

Candidate Starts for Dalmatian_36:

(2, 26884), (19, 27037), (Start: 29 @27061 has 1 MA's), (Start: 44 @27148 has 273 MA's), (57, 27217), (63, 27271), (65, 27286), (74, 27328), (75, 27337), (83, 27391), (84, 27394), (85, 27400), (87, 27412), (93, 27445),

Gene: Danforth_30 Start: 25140, Stop: 25568, Start Num: 44

Candidate Starts for Danforth_30:

(11, 25002), (17, 25017), (24, 25041), (25, 25044), (Start: 44 @25140 has 273 MA's), (63, 25251), (65, 25272), (71, 25299), (73, 25305), (79, 25359), (80, 25362), (83, 25377), (86, 25389), (87, 25398), (92, 25425), (93, 25431), (94, 25434), (104, 25488),

Gene: DARTHPhader_37 Start: 28677, Stop: 29096, Start Num: 44

Candidate Starts for DARTHPhader_37:

(Start: 44 @28677 has 273 MA's), (Start: 52 @28701 has 1 MA's), (63, 28788), (65, 28809), (81, 28902), (83, 28914), (87, 28935), (92, 28962), (93, 28968), (103, 29022), (104, 29025),

Gene: Datway_34 Start: 26729, Stop: 27154, Start Num: 44

Candidate Starts for Datway_34:

(10, 26582), (18, 26606), (Start: 44 @26729 has 273 MA's), (Start: 47 @26735 has 2 MA's), (Start: 52 @26753 has 1 MA's), (57, 26786), (59, 26798), (63, 26840), (65, 26855), (79, 26939), (84, 26960), (87, 26978), (93, 27011), (94, 27014), (97, 27035),

Gene: Deano_34 Start: 26718, Stop: 27143, Start Num: 44

Candidate Starts for Deano_34:

(32, 26637), (Start: 39 @26697 has 8 MA's), (Start: 44 @26718 has 273 MA's), (Start: 47 @26724 has 2 MA's), (Start: 52 @26742 has 1 MA's), (57, 26775), (59, 26787), (63, 26829), (65, 26844), (79, 26928), (84, 26949), (85, 26955), (87, 26967), (93, 27000), (94, 27003), (97, 27024),

Gene: Dhanush_34 Start: 26713, Stop: 27138, Start Num: 44

Candidate Starts for Dhanush_34:

(32, 26632), (Start: 39 @26692 has 8 MA's), (Start: 44 @26713 has 273 MA's), (Start: 47 @26719 has 2 MA's), (Start: 52 @26737 has 1 MA's), (57, 26770), (59, 26782), (63, 26824), (65, 26839), (79, 26923), (84, 26944), (85, 26950), (87, 26962), (93, 26995), (94, 26998), (97, 27019),

Gene: Dieselweasel_37 Start: 27202, Stop: 27633, Start Num: 44

Candidate Starts for Dieselweasel_37:

(19, 27088), (Start: 21 @27094 has 9 MA's), (Start: 44 @27202 has 273 MA's), (57, 27271), (65, 27340), (66, 27343), (75, 27391), (85, 27454), (87, 27466), (93, 27499), (94, 27502), (103, 27553), (104, 27556), (114, 27595),

Gene: Dignity_36 Start: 27140, Stop: 27580, Start Num: 46

Candidate Starts for Dignity_36:

(Start: 46 @27140 has 58 MA's), (Start: 51 @27167 has 4 MA's), (62, 27248), (63, 27260), (65, 27281), (74, 27323), (75, 27332), (83, 27386), (84, 27389), (85, 27395), (87, 27407), (92, 27434), (93, 27440),

Gene: Dinger_30 Start: 24170, Stop: 24646, Start Num: 44

Candidate Starts for Dinger_30:

(Start: 44 @24170 has 273 MA's), (65, 24323), (66, 24326), (69, 24338), (71, 24350), (78, 24413), (80, 24419), (87, 24455), (100, 24530), (102, 24545), (103, 24551), (104, 24554),

Gene: DirtyDunning_34 Start: 26767, Stop: 27195, Start Num: 44

Candidate Starts for DirtyDunning_34:

(Start: 37 @26725 has 1 MA's), (Start: 44 @26767 has 273 MA's), (Start: 50 @26785 has 2 MA's), (Start: 54 @26809 has 2 MA's), (63, 26878), (65, 26893), (67, 26902), (68, 26905), (71, 26920), (80, 26983), (83, 26998), (85, 27007), (87, 27019), (92, 27046), (93, 27052),

Gene: Discoknowium_31 Start: 26062, Stop: 26481, Start Num: 43

Candidate Starts for Discoknowium_31:

(Start: 43 @26062 has 40 MA's), (57, 26119), (65, 26194), (84, 26302), (87, 26320), (92, 26347), (93, 26353), (94, 26356), (102, 26401), (104, 26410),

Gene: Dixon_31 Start: 25159, Stop: 25581, Start Num: 44

Candidate Starts for Dixon_31:

(11, 25021), (17, 25036), (24, 25060), (25, 25063), (Start: 44 @25159 has 273 MA's), (63, 25270), (65, 25291), (68, 25303), (71, 25318), (73, 25324), (79, 25378), (80, 25381), (83, 25396), (86, 25408), (87, 25417), (92, 25444), (93, 25450), (94, 25453), (104, 25507), (105, 25510), (108, 25531),

Gene: Drake55_37 Start: 27281, Stop: 27718, Start Num: 44

Candidate Starts for Drake55_37:

(31, 27200), (Start: 44 @27281 has 273 MA's), (63, 27404), (65, 27419), (74, 27461), (75, 27470), (83, 27524), (93, 27578),

Gene: Drake94_33 Start: 25538, Stop: 25972, Start Num: 44

Candidate Starts for Drake94_33:

(Start: 44 @25538 has 273 MA's), (63, 25649), (65, 25664), (66, 25667), (68, 25676), (80, 25754), (85, 25778), (87, 25790), (93, 25823), (94, 25826),

Gene: DreamTeam1_34 Start: 26395, Stop: 26820, Start Num: 43

Candidate Starts for DreamTeam1_34:

(Start: 43 @26395 has 40 MA's), (Start: 52 @26419 has 1 MA's), (63, 26506), (65, 26527), (71, 26554), (81, 26620), (83, 26632), (87, 26653), (93, 26686), (103, 26740), (104, 26743),

Gene: Druantia_34 Start: 26713, Stop: 27138, Start Num: 44

Candidate Starts for Druantia_34:

(10, 26566), (18, 26590), (32, 26632), (Start: 39 @26692 has 8 MA's), (Start: 44 @26713 has 273 MA's), (Start: 47 @26719 has 2 MA's), (Start: 52 @26737 has 1 MA's), (57, 26770), (59, 26782), (63, 26824), (65, 26839), (79, 26923), (84, 26944), (85, 26950), (87, 26962), (93, 26995), (94, 26998), (97, 27019),

Gene: Dublin_30 Start: 25912, Stop: 26340, Start Num: 43

Candidate Starts for Dublin_30:

(Start: 43 @25912 has 40 MA's), (57, 25969), (65, 26044), (75, 26095), (84, 26152), (87, 26170), (92, 26197), (93, 26203), (94, 26206), (102, 26251), (104, 26260), (111, 26296),

Gene: DudeLittle_34 Start: 26868, Stop: 27251, Start Num: 54

Candidate Starts for DudeLittle_34:

(Start: 46 @26817 has 58 MA's), (Start: 54 @26868 has 2 MA's), (65, 26952), (74, 26994), (83, 27057), (85, 27066), (87, 27078), (93, 27111),

Gene: Duplo_38 Start: 26903, Stop: 27340, Start Num: 44

Candidate Starts for Duplo_38:

(Start: 44 @26903 has 273 MA's), (63, 27026), (65, 27041), (74, 27083), (75, 27092), (83, 27146), (84, 27149), (87, 27167), (93, 27200), (94, 27203),

Gene: Eagle_33 Start: 26657, Stop: 27100, Start Num: 46

Candidate Starts for Eagle_33:

(Start: 44 @26654 has 273 MA's), (Start: 46 @26657 has 58 MA's), (48, 26663), (Start: 51 @26684 has 4 MA's), (60, 26750), (65, 26798), (66, 26801), (68, 26810), (74, 26840), (83, 26903), (85, 26912), (93, 26957),

Gene: Eaglepride_36 Start: 26923, Stop: 27351, Start Num: 46

Candidate Starts for Eaglepride_36:

(34, 26851), (Start: 46 @26923 has 58 MA's), (Start: 54 @26962 has 2 MA's), (63, 27031), (65, 27046), (68, 27058), (84, 27151), (85, 27157), (87, 27169), (93, 27202), (105, 27262),

Gene: Eapen_34 Start: 26708, Stop: 27133, Start Num: 44

Candidate Starts for Eapen_34:

(32, 26627), (Start: 39 @26687 has 8 MA's), (Start: 44 @26708 has 273 MA's), (Start: 47 @26714 has 2 MA's), (Start: 52 @26732 has 1 MA's), (57, 26765), (59, 26777), (63, 26819), (65, 26834), (79, 26918), (84, 26939), (85, 26945), (87, 26957), (93, 26990), (94, 26993), (97, 27014),

Gene: Edison31_35 Start: 26953, Stop: 27378, Start Num: 46

Candidate Starts for Edison31_35:

(34, 26881), (Start: 46 @26953 has 58 MA's), (63, 27058), (65, 27073), (68, 27085), (84, 27178), (85, 27184), (87, 27196), (93, 27229), (102, 27277), (117, 27337),

Gene: EITiger69_32 Start: 25651, Stop: 26070, Start Num: 43

Candidate Starts for EITiger69_32:

(Start: 43 @25651 has 40 MA's), (59, 25720), (60, 25735), (63, 25762), (65, 25783), (81, 25876), (84, 25891), (87, 25909), (92, 25936), (93, 25942), (94, 25945), (102, 25990), (104, 25999),

Gene: EpicPhail_37 Start: 27200, Stop: 27631, Start Num: 44

Candidate Starts for EpicPhail_37:

(19, 27086), (Start: 21 @27092 has 9 MA's), (Start: 44 @27200 has 273 MA's), (57, 27269), (65, 27338), (66, 27341), (75, 27389), (85, 27452), (87, 27464), (93, 27497), (94, 27500), (103, 27551),

(104, 27554), (114, 27593),

Gene: Equemioh13_36 Start: 27224, Stop: 27658, Start Num: 46

Candidate Starts for Equemioh13_36:

(34, 27158), (Start: 46 @27224 has 58 MA's), (Start: 54 @27275 has 2 MA's), (63, 27344), (65, 27359), (69, 27374), (74, 27401), (75, 27410), (83, 27464), (93, 27518), (94, 27521),

Gene: Erik_30 Start: 24184, Stop: 24660, Start Num: 44

Candidate Starts for Erik_30:

(Start: 44 @24184 has 273 MA's), (49, 24199), (65, 24337), (66, 24340), (69, 24352), (71, 24364), (78, 24427), (80, 24433), (87, 24469), (100, 24544), (103, 24565), (104, 24568), (109, 24601),

Gene: Eris_33 Start: 26689, Stop: 27135, Start Num: 39

Candidate Starts for Eris_33:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Eros_34 Start: 26712, Stop: 27137, Start Num: 44

Candidate Starts for Eros_34:

(10, 26565), (18, 26589), (32, 26631), (Start: 39 @26691 has 8 MA's), (Start: 44 @26712 has 273 MA's), (Start: 47 @26718 has 2 MA's), (Start: 52 @26736 has 1 MA's), (57, 26769), (59, 26781), (63, 26823), (65, 26838), (79, 26922), (84, 26943), (85, 26949), (87, 26961), (93, 26994), (94, 26997), (97, 27018),

Gene: Espica_30 Start: 24187, Stop: 24663, Start Num: 44

Candidate Starts for Espica_30:

(Start: 44 @24187 has 273 MA's), (65, 24340), (66, 24343), (69, 24355), (71, 24367), (78, 24430), (80, 24436), (87, 24472), (100, 24547), (103, 24568), (104, 24571), (109, 24604),

Gene: Eurydice_34 Start: 26629, Stop: 27075, Start Num: 44

Candidate Starts for Eurydice_34:

(Start: 44 @26629 has 273 MA's), (Start: 46 @26632 has 58 MA's), (48, 26638), (Start: 51 @26659 has 4 MA's), (60, 26725), (65, 26773), (66, 26776), (68, 26785), (74, 26815), (83, 26878), (85, 26887), (93, 26932),

Gene: EvilGenius_37 Start: 28515, Stop: 28955, Start Num: 46

Candidate Starts for EvilGenius_37:

(Start: 46 @28515 has 58 MA's), (Start: 51 @28542 has 4 MA's), (62, 28623), (63, 28635), (65, 28656), (74, 28698), (75, 28707), (83, 28761), (84, 28764), (85, 28770), (87, 28782), (92, 28809), (93, 28815),

Gene: Expelliarmus_30 Start: 25126, Stop: 25554, Start Num: 44

Candidate Starts for Expelliarmus_30:

(11, 24988), (17, 25003), (24, 25027), (25, 25030), (Start: 44 @25126 has 273 MA's), (63, 25237), (65, 25258), (68, 25270), (71, 25285), (73, 25291), (79, 25345), (80, 25348), (83, 25363), (86, 25375), (87, 25384), (92, 25411), (93, 25417), (94, 25420), (104, 25474),

Gene: Fameo_35 Start: 26939, Stop: 27373, Start Num: 46

Candidate Starts for Fameo_35:

(Start: 46 @26939 has 58 MA's), (Start: 54 @26990 has 2 MA's), (65, 27074), (74, 27116), (83, 27179), (85, 27188), (87, 27200), (93, 27233),

Gene: Farber_37 Start: 27193, Stop: 27624, Start Num: 44

Candidate Starts for Farber_37:

(19, 27079), (Start: 21 @27085 has 9 MA's), (Start: 44 @27193 has 273 MA's), (57, 27262), (65, 27331), (66, 27334), (75, 27382), (85, 27445), (87, 27457), (93, 27490), (94, 27493), (103, 27544), (104, 27547), (114, 27586),

Gene: Fernando_37 Start: 27199, Stop: 27630, Start Num: 44

Candidate Starts for Fernando_37:

(19, 27085), (Start: 21 @27091 has 9 MA's), (Start: 44 @27199 has 273 MA's), (57, 27268), (65, 27337), (66, 27340), (75, 27388), (85, 27451), (87, 27463), (93, 27496), (94, 27499), (103, 27550), (104, 27553), (114, 27592),

Gene: FiringLine_35 Start: 26764, Stop: 27198, Start Num: 46

Candidate Starts for FiringLine_35:

(Start: 46 @26764 has 58 MA's), (65, 26899), (74, 26941), (83, 27004), (85, 27013), (87, 27025), (93, 27058),

Gene: Flare16_35 Start: 26893, Stop: 27330, Start Num: 44

Candidate Starts for Flare16_35:

(19, 26782), (Start: 29 @26806 has 1 MA's), (Start: 44 @26893 has 273 MA's), (57, 26962), (63, 27016), (65, 27031), (74, 27073), (75, 27082), (83, 27136), (85, 27145), (93, 27190), (94, 27193),

Gene: Florean_34 Start: 26709, Stop: 27134, Start Num: 44

Candidate Starts for Florean_34:

(10, 26562), (18, 26586), (32, 26628), (Start: 39 @26688 has 8 MA's), (Start: 44 @26709 has 273 MA's), (Start: 47 @26715 has 2 MA's), (Start: 52 @26733 has 1 MA's), (57, 26766), (59, 26778), (63, 26820), (65, 26835), (79, 26919), (84, 26940), (85, 26946), (87, 26958), (93, 26991), (94, 26994), (97, 27015),

Gene: Flux_34 Start: 26712, Stop: 27137, Start Num: 44

Candidate Starts for Flux_34:

(32, 26631), (Start: 44 @26712 has 273 MA's), (Start: 47 @26718 has 2 MA's), (Start: 52 @26736 has 1 MA's), (57, 26769), (59, 26781), (63, 26823), (65, 26838), (79, 26922), (84, 26943), (85, 26949), (87, 26961), (93, 26994), (94, 26997), (97, 27018),

Gene: ForGetIt_31 Start: 25878, Stop: 26297, Start Num: 43

Candidate Starts for ForGetIt_31:

(Start: 43 @25878 has 40 MA's), (57, 25935), (65, 26010), (84, 26118), (87, 26136), (92, 26163), (93, 26169), (94, 26172), (102, 26217), (104, 26226),

Gene: Fred313_34 Start: 26445, Stop: 26885, Start Num: 40

Candidate Starts for Fred313_34:

(19, 26346), (Start: 21 @26352 has 9 MA's), (Start: 40 @26445 has 3 MA's), (Start: 44 @26460 has 273 MA's), (65, 26598), (83, 26703), (84, 26706), (85, 26712), (87, 26724), (93, 26757), (94, 26760), (104, 26814), (114, 26847),

Gene: Funston_34 Start: 26689, Stop: 27135, Start Num: 39

Candidate Starts for Funston_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Gadost_34 Start: 26714, Stop: 27139, Start Num: 44

Candidate Starts for Gadost_34:

(32, 26633), (Start: 39 @26693 has 8 MA's), (Start: 44 @26714 has 273 MA's), (Start: 47 @26720 has 2 MA's), (Start: 52 @26738 has 1 MA's), (57, 26771), (59, 26783), (63, 26825), (65, 26840), (79, 26924), (84, 26945), (85, 26951), (87, 26963), (93, 26996), (94, 26999), (97, 27020),

Gene: GaugeLDP_36 Start: 27572, Stop: 28009, Start Num: 44

Candidate Starts for GaugeLDP_36:

(31, 27491), (Start: 44 @27572 has 273 MA's), (65, 27710), (74, 27752), (75, 27761), (83, 27815), (84, 27818), (85, 27824), (93, 27869), (94, 27872), (102, 27917),

Gene: Gemma_36 Start: 27018, Stop: 27455, Start Num: 44

Candidate Starts for Gemma_36:

(24, 26916), (Start: 44 @27018 has 273 MA's), (65, 27162), (74, 27204), (85, 27276), (87, 27288), (93, 27321), (94, 27324), (103, 27375), (104, 27378),

Gene: George_30 Start: 25944, Stop: 26372, Start Num: 43

Candidate Starts for George_30:

(Start: 43 @25944 has 40 MA's), (57, 26001), (65, 26076), (75, 26127), (84, 26184), (87, 26202), (92, 26229), (93, 26235), (94, 26238), (102, 26283), (104, 26292), (111, 26328),

Gene: Georgie2_36 Start: 26809, Stop: 27243, Start Num: 46

Candidate Starts for Georgie2_36:

(Start: 46 @26809 has 58 MA's), (65, 26944), (74, 26986), (83, 27049), (85, 27058), (87, 27070), (93, 27103),

Gene: Ghouboy_31 Start: 26193, Stop: 26615, Start Num: 43

Candidate Starts for Ghouboy_31:

(Start: 43 @26193 has 40 MA's), (Start: 54 @26235 has 2 MA's), (57, 26250), (65, 26325), (75, 26376), (84, 26433), (92, 26478), (93, 26484), (94, 26487), (102, 26532), (104, 26541),

Gene: GingkoMaracino_37 Start: 27086, Stop: 27517, Start Num: 44

Candidate Starts for GingkoMaracino_37:

(19, 26972), (Start: 21 @26978 has 9 MA's), (Start: 44 @27086 has 273 MA's), (57, 27155), (65, 27224), (66, 27227), (75, 27275), (85, 27338), (87, 27350), (93, 27383), (94, 27386), (103, 27437), (104, 27440), (114, 27479),

Gene: Gollum_30 Start: 24186, Stop: 24662, Start Num: 44

Candidate Starts for Gollum_30:

(Start: 44 @24186 has 273 MA's), (49, 24201), (65, 24339), (66, 24342), (69, 24354), (71, 24366), (78, 24429), (80, 24435), (87, 24471), (100, 24546), (103, 24567), (104, 24570), (109, 24603),

Gene: Goose_35 Start: 26546, Stop: 26962, Start Num: 46

Candidate Starts for Goose_35:

(34, 26474), (Start: 46 @26546 has 58 MA's), (Start: 54 @26582 has 2 MA's), (63, 26651), (65, 26666), (68, 26678), (84, 26771), (85, 26777), (87, 26789), (93, 26822), (105, 26882),

Gene: Grif_37 Start: 27274, Stop: 27705, Start Num: 44

Candidate Starts for Grif_37:

(19, 27160), (Start: 21 @27166 has 9 MA's), (Start: 44 @27274 has 273 MA's), (65, 27412), (66, 27415), (75, 27463), (85, 27526), (87, 27538), (93, 27571), (94, 27574), (103, 27625), (104, 27628), (114, 27667),

Gene: Groundhog_30 Start: 25130, Stop: 25552, Start Num: 44

Candidate Starts for Groundhog_30:

(11, 24989), (17, 25004), (24, 25028), (25, 25031), (27, 25034), (Start: 44 @25130 has 273 MA's), (57, 25187), (63, 25241), (65, 25262), (68, 25274), (71, 25289), (73, 25295), (79, 25349), (80, 25352), (83, 25367), (86, 25379), (87, 25388), (92, 25415), (93, 25421), (94, 25424), (104, 25478), (105, 25481), (108, 25502),

Gene: Groupthink_37 Start: 27022, Stop: 27459, Start Num: 44

Candidate Starts for Groupthink_37:

(24, 26920), (Start: 44 @27022 has 273 MA's), (65, 27166), (74, 27208), (85, 27280), (87, 27292), (93, 27325), (94, 27328), (103, 27379), (104, 27382),

Gene: Grub_37 Start: 27192, Stop: 27623, Start Num: 44

Candidate Starts for Grub_37:

(19, 27078), (Start: 21 @27084 has 9 MA's), (Start: 44 @27192 has 273 MA's), (57, 27261), (65, 27330), (66, 27333), (75, 27381), (85, 27444), (87, 27456), (93, 27489), (94, 27492), (103, 27543), (104, 27546), (114, 27585),

Gene: Grum1_37 Start: 27091, Stop: 27630, Start Num: 21

Candidate Starts for Grum1_37:

(19, 27085), (Start: 21 @27091 has 9 MA's), (Start: 44 @27199 has 273 MA's), (57, 27268), (65, 27337), (66, 27340), (75, 27388), (85, 27451), (87, 27463), (93, 27496), (94, 27499), (103, 27550), (104, 27553), (114, 27592),

Gene: GtownJaz_37 Start: 27201, Stop: 27632, Start Num: 44

Candidate Starts for GtownJaz_37:

(19, 27087), (Start: 21 @27093 has 9 MA's), (Start: 44 @27201 has 273 MA's), (57, 27270), (65, 27339), (66, 27342), (75, 27390), (85, 27453), (87, 27465), (93, 27498), (94, 27501), (103, 27552), (104, 27555), (114, 27594),

Gene: HamSlice_33 Start: 26708, Stop: 27133, Start Num: 44

Candidate Starts for HamSlice_33:

(32, 26627), (Start: 39 @26687 has 8 MA's), (Start: 44 @26708 has 273 MA's), (Start: 47 @26714 has 2 MA's), (Start: 52 @26732 has 1 MA's), (57, 26765), (59, 26777), (63, 26819), (65, 26834), (79, 26918), (84, 26939), (85, 26945), (87, 26957), (93, 26990), (94, 26993), (97, 27014), (122, 27116),

Gene: Happiness_34 Start: 26715, Stop: 27140, Start Num: 44

Candidate Starts for Happiness_34:

(32, 26634), (Start: 39 @26694 has 8 MA's), (Start: 44 @26715 has 273 MA's), (Start: 47 @26721 has 2 MA's), (Start: 52 @26739 has 1 MA's), (57, 26772), (59, 26784), (63, 26826), (65, 26841), (79, 26925), (84, 26946), (85, 26952), (87, 26964), (93, 26997), (94, 27000), (97, 27021),

Gene: Harlequin_30 Start: 24191, Stop: 24667, Start Num: 44

Candidate Starts for Harlequin_30:

(Start: 44 @24191 has 273 MA's), (65, 24344), (66, 24347), (69, 24359), (71, 24371), (78, 24434), (80, 24440), (87, 24476), (100, 24551), (103, 24572), (104, 24575),

Gene: HarryHoudini_37 Start: 27323, Stop: 27757, Start Num: 46

Candidate Starts for HarryHoudini_37:

(34, 27257), (Start: 46 @27323 has 58 MA's), (Start: 54 @27374 has 2 MA's), (65, 27458), (74, 27500), (75, 27509), (83, 27563), (85, 27572), (87, 27584), (93, 27617), (94, 27620),

Gene: HashRod_38 Start: 27402, Stop: 27833, Start Num: 45

Candidate Starts for HashRod_38:

(31, 27318), (Start: 42 @27396 has 2 MA's), (Start: 45 @27402 has 11 MA's), (Start: 52 @27426 has 1 MA's), (63, 27513), (65, 27534), (66, 27537), (71, 27561), (79, 27621), (81, 27627), (84, 27642), (85, 27648), (91, 27690), (93, 27699), (94, 27702), (103, 27753), (104, 27756), (114, 27795),

Gene: HaveUMetTed_37 Start: 27015, Stop: 27452, Start Num: 44

Candidate Starts for HaveUMetTed_37:

(24, 26913), (Start: 44 @27015 has 273 MA's), (65, 27159), (74, 27201), (85, 27273), (93, 27318), (94, 27321), (103, 27372), (104, 27375),

Gene: Heffalump_36 Start: 28094, Stop: 28525, Start Num: 44

Candidate Starts for Heffalump_36:

(Start: 44 @28094 has 273 MA's), (59, 28163), (63, 28205), (65, 28226), (74, 28268), (75, 28277), (83, 28331), (84, 28334), (85, 28340), (87, 28352), (93, 28385),

Gene: HelDan_34 Start: 26753, Stop: 27193, Start Num: 40

Candidate Starts for HelDan_34:

(19, 26654), (Start: 21 @26660 has 9 MA's), (Start: 40 @26753 has 3 MA's), (Start: 44 @26768 has 273 MA's), (65, 26906), (83, 27011), (84, 27014), (85, 27020), (87, 27032), (93, 27065), (94, 27068), (104, 27122), (114, 27155),

Gene: Heliosoles_36 Start: 27022, Stop: 27459, Start Num: 44

Candidate Starts for Heliosoles_36:

(24, 26920), (Start: 44 @27022 has 273 MA's), (65, 27166), (74, 27208), (85, 27280), (87, 27292), (93, 27325), (94, 27328), (103, 27379), (104, 27382),

Gene: Hercules11_37 Start: 27100, Stop: 27639, Start Num: 21

Candidate Starts for Hercules11_37:

(19, 27094), (Start: 21 @27100 has 9 MA's), (Start: 44 @27208 has 273 MA's), (57, 27277), (65, 27346), (66, 27349), (75, 27397), (85, 27460), (87, 27472), (93, 27505), (94, 27508), (103, 27559), (104, 27562), (114, 27601),

Gene: Hiro_30 Start: 24446, Stop: 24922, Start Num: 44

Candidate Starts for Hiro_30:

(Start: 44 @24446 has 273 MA's), (65, 24599), (66, 24602), (69, 24614), (71, 24626), (78, 24689), (80, 24695), (87, 24731), (100, 24806), (103, 24827), (104, 24830),

Gene: Holli_34 Start: 26500, Stop: 26925, Start Num: 44

Candidate Starts for Holli_34:

(32, 26419), (Start: 39 @26479 has 8 MA's), (Start: 44 @26500 has 273 MA's), (Start: 47 @26506 has 2 MA's), (Start: 52 @26524 has 1 MA's), (57, 26557), (59, 26569), (63, 26611), (65, 26626), (79, 26710), (84, 26731), (85, 26737), (87, 26749), (93, 26782), (94, 26785), (97, 26806),

Gene: Houdini22_34 Start: 26714, Stop: 27139, Start Num: 44

Candidate Starts for Houdini22_34:

(32, 26633), (Start: 39 @26693 has 8 MA's), (Start: 44 @26714 has 273 MA's), (Start: 47 @26720 has 2 MA's), (Start: 52 @26738 has 1 MA's), (57, 26771), (59, 26783), (63, 26825), (65, 26840), (79, 26924), (84, 26945), (85, 26951), (87, 26963), (93, 26996), (94, 26999), (97, 27020),

Gene: HuhtaEnerson15_31 Start: 25944, Stop: 26363, Start Num: 43

Candidate Starts for HuhtaEnerson15_31:

(Start: 43 @25944 has 40 MA's), (57, 26001), (65, 26076), (75, 26127), (84, 26184), (92, 26229), (93, 26235), (94, 26238), (102, 26283), (104, 26292),

Gene: ICleared_34 Start: 26760, Stop: 27188, Start Num: 44

Candidate Starts for ICleared_34:

(Start: 37 @26718 has 1 MA's), (Start: 44 @26760 has 273 MA's), (Start: 50 @26778 has 2 MA's), (Start: 54 @26802 has 2 MA's), (63, 26871), (65, 26886), (67, 26895), (68, 26898), (71, 26913), (80, 26976), (84, 26994), (85, 27000), (87, 27012), (90, 27036), (92, 27039), (93, 27045),

Gene: Iceman_35 Start: 26999, Stop: 27424, Start Num: 44

Candidate Starts for Iceman_35:

(32, 26918), (Start: 39 @26978 has 8 MA's), (Start: 44 @26999 has 273 MA's), (Start: 47 @27005 has 2 MA's), (Start: 52 @27023 has 1 MA's), (57, 27056), (59, 27068), (63, 27110), (65, 27125), (79, 27209), (84, 27230), (85, 27236), (87, 27248), (93, 27281), (94, 27284), (97, 27305),

Gene: Idleandcovert_34 Start: 26693, Stop: 27133, Start Num: 40

Candidate Starts for Idleandcovert_34:

(19, 26594), (Start: 21 @26600 has 9 MA's), (Start: 40 @26693 has 3 MA's), (Start: 44 @26708 has 273 MA's), (65, 26846), (83, 26951), (84, 26954), (85, 26960), (87, 26972), (93, 27005), (94, 27008), (104, 27062), (114, 27095),

Gene: Iracema64_35 Start: 27082, Stop: 27510, Start Num: 44

Candidate Starts for Iracema64_35:

(Start: 37 @27040 has 1 MA's), (Start: 44 @27082 has 273 MA's), (Start: 50 @27100 has 2 MA's), (Start: 54 @27124 has 2 MA's), (63, 27193), (65, 27208), (67, 27217), (68, 27220), (71, 27235), (80, 27298), (84, 27316), (85, 27322), (87, 27334), (90, 27358), (92, 27361), (93, 27367),

Gene: IronMan_37 Start: 28412, Stop: 28852, Start Num: 46

Candidate Starts for IronMan_37:

(Start: 46 @28412 has 58 MA's), (62, 28520), (63, 28532), (65, 28553), (74, 28595), (75, 28604), (83, 28658), (87, 28679), (93, 28712),

Gene: Isca_34 Start: 26477, Stop: 26902, Start Num: 44

Candidate Starts for Isca_34:

(Start: 44 @26477 has 273 MA's), (Start: 46 @26480 has 58 MA's), (63, 26600), (65, 26615), (83, 26720), (85, 26729), (87, 26741), (93, 26774), (103, 26828), (104, 26831), (114, 26864),

Gene: Iwokeuplikedis_35 Start: 26592, Stop: 27026, Start Num: 46

Candidate Starts for Iwokeuplikedis_35:

(19, 26475), (Start: 21 @26481 has 9 MA's), (Start: 46 @26592 has 58 MA's), (65, 26727), (68, 26739), (74, 26769), (75, 26778), (76, 26784), (82, 26823), (83, 26832), (87, 26853), (93, 26886), (94, 26889),

Gene: JF2_34 Start: 26228, Stop: 26653, Start Num: 44

Candidate Starts for JF2_34:

(Start: 44 @26228 has 273 MA's), (Start: 46 @26231 has 58 MA's), (63, 26351), (65, 26366), (83, 26471), (85, 26480), (87, 26492), (93, 26525), (103, 26579), (104, 26582), (114, 26615),

Gene: JF4_34 Start: 26228, Stop: 26653, Start Num: 44

Candidate Starts for JF4_34:

(Start: 44 @26228 has 273 MA's), (Start: 46 @26231 has 58 MA's), (63, 26351), (65, 26366), (83, 26471), (85, 26480), (87, 26492), (93, 26525), (103, 26579), (104, 26582), (114, 26615),

Gene: JHC117_37 Start: 27198, Stop: 27629, Start Num: 44

Candidate Starts for JHC117_37:

(19, 27084), (Start: 21 @27090 has 9 MA's), (Start: 44 @27198 has 273 MA's), (57, 27267), (65, 27336), (66, 27339), (75, 27387), (85, 27450), (87, 27462), (93, 27495), (94, 27498), (103, 27549), (104, 27552), (114, 27591),

Gene: Jaan_38 Start: 28850, Stop: 29293, Start Num: 44

Candidate Starts for Jaan_38:

(Start: 44 @28850 has 273 MA's), (Start: 46 @28853 has 58 MA's), (48, 28859), (65, 28994), (74, 29036), (75, 29045), (80, 29084), (82, 29090), (83, 29099), (87, 29120), (93, 29153), (117, 29261),

Gene: Jabiru_32 Start: 25700, Stop: 26119, Start Num: 43

Candidate Starts for Jabiru_32:

(Start: 43 @25700 has 40 MA's), (59, 25769), (60, 25784), (63, 25811), (65, 25832), (81, 25925), (84, 25940), (87, 25958), (92, 25985), (93, 25991), (94, 25994), (102, 26039), (104, 26048),

Gene: Jace_93 Start: 53019, Stop: 52444, Start Num: 43

Candidate Starts for Jace_93:

(14, 53154), (Start: 43 @53019 has 40 MA's), (59, 52926), (62, 52896), (65, 52863), (69, 52848), (77, 52806), (95, 52686), (96, 52683), (98, 52671), (101, 52659), (103, 52644), (123, 52551), (124, 52536), (125, 52461),

Gene: Jaykayelowell_34 Start: 26712, Stop: 27131, Start Num: 47

Candidate Starts for Jaykayelowell_34:

(32, 26625), (Start: 39 @26685 has 8 MA's), (Start: 44 @26706 has 273 MA's), (Start: 47 @26712 has 2 MA's), (Start: 52 @26730 has 1 MA's), (57, 26763), (59, 26775), (63, 26817), (65, 26832), (79, 26916), (84, 26937), (85, 26943), (87, 26955), (93, 26988), (94, 26991), (97, 27012),

Gene: JeppNRM_37 Start: 27021, Stop: 27458, Start Num: 44

Candidate Starts for JeppNRM_37:

(24, 26919), (Start: 44 @27021 has 273 MA's), (65, 27165), (74, 27207), (85, 27279), (87, 27291), (93, 27324), (94, 27327), (103, 27378), (104, 27381),

Gene: Jerm_36 Start: 27133, Stop: 27573, Start Num: 46

Candidate Starts for Jerm_36:

(Start: 46 @27133 has 58 MA's), (Start: 51 @27160 has 4 MA's), (62, 27241), (63, 27253), (65, 27274), (74, 27316), (75, 27325), (83, 27379), (84, 27382), (85, 27388), (87, 27400), (92, 27427), (93, 27433), (118, 27544),

Gene: Jester_30 Start: 24122, Stop: 24598, Start Num: 44

Candidate Starts for Jester_30:

(Start: 44 @24122 has 273 MA's), (65, 24275), (66, 24278), (69, 24290), (71, 24302), (78, 24365), (80, 24371), (87, 24407), (100, 24482), (103, 24503), (104, 24506),

Gene: JetBlade_34 Start: 26707, Stop: 27132, Start Num: 44

Candidate Starts for JetBlade_34:

(32, 26626), (Start: 39 @26686 has 8 MA's), (Start: 44 @26707 has 273 MA's), (Start: 47 @26713 has 2 MA's), (Start: 52 @26731 has 1 MA's), (57, 26764), (59, 26776), (63, 26818), (65, 26833), (79, 26917), (84, 26938), (85, 26944), (87, 26956), (93, 26989), (94, 26992), (97, 27013),

Gene: Jobu08_36 Start: 27029, Stop: 27460, Start Num: 44

Candidate Starts for Jobu08_36:

(Start: 44 @27029 has 273 MA's), (65, 27167), (66, 27170), (75, 27218), (85, 27281), (87, 27293), (93, 27326), (94, 27329), (103, 27380), (104, 27383), (114, 27422), (121, 27443),

Gene: JoongJeon_34 Start: 26689, Stop: 27135, Start Num: 39

Candidate Starts for JoongJeon_34:

(10, 26563), (18, 26587), (32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: JoshKayV_36 Start: 27108, Stop: 27542, Start Num: 46

Candidate Starts for JoshKayV_36:

(28, 27012), (Start: 46 @27108 has 58 MA's), (63, 27228), (65, 27243), (74, 27285), (83, 27348), (85, 27357), (87, 27369), (93, 27402),

Gene: Journey13_32 Start: 25973, Stop: 26401, Start Num: 44

Candidate Starts for Journey13_32:

(Start: 40 @25958 has 3 MA's), (Start: 44 @25973 has 273 MA's), (63, 26096), (65, 26111), (75, 26162), (83, 26216), (85, 26225), (87, 26237), (93, 26270), (94, 26273), (103, 26324), (104, 26327),

Gene: Jovo_31 Start: 26134, Stop: 26553, Start Num: 43

Candidate Starts for Jovo_31:

(Start: 43 @26134 has 40 MA's), (57, 26191), (65, 26266), (84, 26374), (87, 26392), (92, 26419), (93, 26425), (94, 26428), (102, 26473), (104, 26482),

Gene: Jsquared_35 Start: 26083, Stop: 26511, Start Num: 44

Candidate Starts for Jsquared_35:

(Start: 44 @26083 has 273 MA's), (57, 26152), (71, 26248), (73, 26254), (75, 26272), (79, 26308), (80, 26311), (81, 26314), (87, 26347), (93, 26380), (94, 26383), (103, 26434), (104, 26437), (105, 26440), (106, 26443),

Gene: KADY_38 Start: 27402, Stop: 27833, Start Num: 45

Candidate Starts for KADY_38:

(31, 27318), (Start: 42 @27396 has 2 MA's), (Start: 45 @27402 has 11 MA's), (Start: 52 @27426 has 1 MA's), (63, 27513), (65, 27534), (66, 27537), (79, 27621), (81, 27627), (84, 27642), (85, 27648), (91, 27690), (93, 27699), (94, 27702), (103, 27753), (104, 27756), (114, 27795),

Gene: KFPoly_34 Start: 26707, Stop: 27132, Start Num: 44

Candidate Starts for KFPoly_34:

(32, 26626), (Start: 44 @26707 has 273 MA's), (Start: 47 @26713 has 2 MA's), (Start: 52 @26731 has 1 MA's), (57, 26764), (59, 26776), (63, 26818), (65, 26833), (79, 26917), (84, 26938), (85, 26944), (87, 26956), (93, 26989), (94, 26992), (97, 27013),

Gene: Kalb97_37 Start: 27021, Stop: 27458, Start Num: 44

Candidate Starts for Kalb97_37:

(24, 26919), (Start: 44 @27021 has 273 MA's), (65, 27165), (74, 27207), (85, 27279), (87, 27291), (93, 27324), (94, 27327), (103, 27378), (104, 27381),

Gene: Kalnoky_37 Start: 27022, Stop: 27459, Start Num: 44

Candidate Starts for Kalnoky_37:

(24, 26920), (Start: 44 @27022 has 273 MA's), (65, 27166), (74, 27208), (85, 27280), (87, 27292), (93, 27325), (94, 27328), (103, 27379), (104, 27382),

Gene: Kalpine_36 Start: 27903, Stop: 28334, Start Num: 44

Candidate Starts for Kalpine_36:

(Start: 44 @27903 has 273 MA's), (63, 28026), (65, 28047), (71, 28074), (73, 28080), (83, 28146), (85, 28155), (87, 28167), (92, 28194), (93, 28200), (96, 28215), (103, 28254), (114, 28296), (120, 28311),

Gene: Kamy_34 Start: 26631, Stop: 27077, Start Num: 44

Candidate Starts for Kamy_34:

(Start: 44 @26631 has 273 MA's), (Start: 46 @26634 has 58 MA's), (48, 26640), (Start: 51 @26661 has 4 MA's), (60, 26727), (65, 26775), (66, 26778), (68, 26787), (74, 26817), (83, 26880), (85, 26889), (93, 26934),

Gene: Katalie136_34 Start: 26764, Stop: 27189, Start Num: 44

Candidate Starts for Katalie136_34:

(Start: 44 @26764 has 273 MA's), (57, 26821), (59, 26833), (63, 26875), (65, 26890), (66, 26893), (67, 26899), (79, 26974), (84, 26995), (87, 27013), (93, 27046), (94, 27049), (97, 27070),

Gene: Kerberos_38 Start: 26865, Stop: 27302, Start Num: 44

Candidate Starts for Kerberos_38:

(Start: 44 @26865 has 273 MA's), (63, 26988), (65, 27003), (74, 27045), (75, 27054), (83, 27108), (84, 27111), (87, 27129), (93, 27162), (94, 27165),

Gene: Kimona_31 Start: 24788, Stop: 25219, Start Num: 44

Candidate Starts for Kimona_31:

(26, 24689), (Start: 44 @24788 has 273 MA's), (65, 24932), (67, 24941), (68, 24944), (74, 24974), (87, 25058), (93, 25091), (94, 25094), (104, 25148), (114, 25181), (120, 25196),

Gene: KingCyrus_37 Start: 28510, Stop: 28950, Start Num: 46

Candidate Starts for KingCyrus_37:

(Start: 46 @28510 has 58 MA's), (Start: 51 @28537 has 4 MA's), (62, 28618), (63, 28630), (65, 28651), (74, 28693), (75, 28702), (83, 28756), (84, 28759), (85, 28765), (87, 28777), (92, 28804), (93, 28810),

Gene: Koduck_34 Start: 25817, Stop: 26260, Start Num: 44

Candidate Starts for Koduck_34:

(Start: 44 @25817 has 273 MA's), (63, 25940), (65, 25955), (66, 25958), (67, 25964), (68, 25967), (75, 26006), (85, 26069), (87, 26081), (93, 26114), (94, 26117), (103, 26168), (104, 26171),

Gene: Koreni_33 Start: 26409, Stop: 26837, Start Num: 44

Candidate Starts for Koreni_33:

(Start: 37 @26367 has 1 MA's), (Start: 44 @26409 has 273 MA's), (Start: 50 @26427 has 2 MA's), (Start: 54 @26451 has 2 MA's), (63, 26520), (65, 26535), (67, 26544), (68, 26547), (71, 26562), (80, 26625), (84, 26643), (85, 26649), (87, 26661), (90, 26685), (92, 26688), (93, 26694),

Gene: Kratak_34 Start: 26808, Stop: 27194, Start Num: 54

Candidate Starts for Kratak_34:

(Start: 44 @26766 has 273 MA's), (Start: 50 @26784 has 2 MA's), (Start: 54 @26808 has 2 MA's), (63, 26877), (65, 26892), (68, 26904), (80, 26982), (83, 26997), (85, 27006), (87, 27018), (90, 27042), (92, 27045), (93, 27051),

Gene: Kremtemulon_33 Start: 26834, Stop: 27244, Start Num: 50

Candidate Starts for Kremtemulon_33:

(Start: 37 @26774 has 1 MA's), (Start: 44 @26816 has 273 MA's), (Start: 50 @26834 has 2 MA's), (Start: 54 @26858 has 2 MA's), (63, 26927), (65, 26942), (67, 26951), (68, 26954), (71, 26969), (80, 27032), (84, 27050), (85, 27056), (87, 27068), (90, 27092), (92, 27095), (93, 27101),

Gene: Krishelle_30 Start: 24470, Stop: 24946, Start Num: 44

Candidate Starts for Krishelle_30:

(Start: 44 @24470 has 273 MA's), (65, 24623), (66, 24626), (69, 24638), (71, 24650), (80, 24719), (87, 24755), (100, 24830), (102, 24845), (103, 24851), (104, 24854),

Gene: Kristoff_36 Start: 27117, Stop: 27542, Start Num: 46

Candidate Starts for Kristoff_36:

(34, 27045), (Start: 46 @27117 has 58 MA's), (63, 27222), (65, 27237), (68, 27249), (84, 27342), (85, 27348), (87, 27360), (93, 27393), (102, 27441),

Gene: Kyee_34 Start: 26708, Stop: 27133, Start Num: 44

Candidate Starts for Kyee_34:

(32, 26627), (Start: 39 @26687 has 8 MA's), (Start: 44 @26708 has 273 MA's), (Start: 47 @26714 has 2 MA's), (Start: 52 @26732 has 1 MA's), (57, 26765), (59, 26777), (63, 26819), (65, 26834), (79, 26918), (84, 26939), (85, 26945), (87, 26957), (93, 26990), (94, 26993), (97, 27014),

Gene: L5_34.1 Start: 25777, Stop: 26220, Start Num: 44

Candidate Starts for L5_34.1:

(Start: 44 @25777 has 273 MA's), (63, 25900), (65, 25915), (66, 25918), (67, 25924), (68, 25927), (75, 25966), (85, 26029), (87, 26041), (93, 26074), (94, 26077), (103, 26128), (104, 26131),

Gene: LBerry_37 Start: 27200, Stop: 27631, Start Num: 44

Candidate Starts for LBerry_37:

(19, 27086), (Start: 21 @27092 has 9 MA's), (Start: 44 @27200 has 273 MA's), (57, 27269), (65, 27338), (66, 27341), (75, 27389), (85, 27452), (87, 27464), (93, 27497), (94, 27500), (103, 27551), (104, 27554), (114, 27593),

Gene: LHTSCC_35 Start: 26997, Stop: 27413, Start Num: 51

Candidate Starts for LHTSCC_35:

(Start: 44 @26967 has 273 MA's), (Start: 46 @26970 has 58 MA's), (48, 26976), (Start: 51 @26997 has 4 MA's), (60, 27063), (65, 27111), (66, 27114), (68, 27123), (74, 27153), (83, 27216), (85, 27225), (93, 27270), (118, 27381),

Gene: Landor_36 Start: 28397, Stop: 28828, Start Num: 44

Candidate Starts for Landor_36:

(Start: 44 @28397 has 273 MA's), (Start: 54 @28439 has 2 MA's), (63, 28508), (65, 28529), (74, 28571), (75, 28580), (83, 28634), (87, 28655), (93, 28688),

Gene: LappelDuVide_34 Start: 26715, Stop: 27134, Start Num: 47

Candidate Starts for LappelDuVide_34:

(32, 26628), (Start: 39 @26688 has 8 MA's), (Start: 44 @26709 has 273 MA's), (Start: 47 @26715 has 2 MA's), (Start: 52 @26733 has 1 MA's), (57, 26766), (59, 26778), (63, 26820), (65, 26835), (79, 26919), (84, 26940), (85, 26946), (87, 26958), (93, 26991), (94, 26994), (97, 27015),

Gene: Larenn_36 Start: 27199, Stop: 27639, Start Num: 46

Candidate Starts for Larenn_36:

(Start: 46 @27199 has 58 MA's), (Start: 51 @27226 has 4 MA's), (62, 27307), (63, 27319), (65, 27340), (74, 27382), (83, 27445), (84, 27448), (85, 27454), (87, 27466), (92, 27493), (93, 27499),

Gene: LarryKay_37 Start: 27404, Stop: 27835, Start Num: 45

Candidate Starts for LarryKay_37:

(31, 27320), (Start: 42 @27398 has 2 MA's), (Start: 45 @27404 has 11 MA's), (Start: 52 @27428 has 1 MA's), (63, 27515), (65, 27536), (66, 27539), (71, 27563), (79, 27623), (81, 27629), (84, 27644), (85,

27650), (91, 27692), (93, 27701), (94, 27704), (103, 27755), (104, 27758), (114, 27797),

Gene: Lemur_34 Start: 26707, Stop: 27132, Start Num: 44

Candidate Starts for Lemur_34:

(32, 26626), (Start: 39 @26686 has 8 MA's), (Start: 44 @26707 has 273 MA's), (Start: 47 @26713 has 2 MA's), (Start: 52 @26731 has 1 MA's), (57, 26764), (59, 26776), (63, 26818), (65, 26833), (79, 26917), (84, 26938), (85, 26944), (87, 26956), (93, 26989), (94, 26992), (97, 27013),

Gene: LeoAvram_34 Start: 26659, Stop: 27075, Start Num: 51

Candidate Starts for LeoAvram_34:

(Start: 44 @26629 has 273 MA's), (Start: 46 @26632 has 58 MA's), (48, 26638), (Start: 51 @26659 has 4 MA's), (60, 26725), (65, 26773), (66, 26776), (68, 26785), (74, 26815), (83, 26878), (85, 26887), (93, 26932),

Gene: Leogania_36 Start: 28417, Stop: 28854, Start Num: 44

Candidate Starts for Leogania_36:

(19, 28306), (Start: 29 @28330 has 1 MA's), (Start: 44 @28417 has 273 MA's), (65, 28555), (74, 28597), (75, 28606), (83, 28660), (85, 28669), (87, 28681), (93, 28714), (94, 28717),

Gene: Lev2_31 Start: 25766, Stop: 26185, Start Num: 43

Candidate Starts for Lev2_31:

(Start: 43 @25766 has 40 MA's), (57, 25823), (65, 25898), (84, 26006), (87, 26024), (92, 26051), (93, 26057), (94, 26060), (102, 26105), (104, 26114),

Gene: Leviathan_36 Start: 27189, Stop: 27629, Start Num: 46

Candidate Starts for Leviathan_36:

(Start: 46 @27189 has 58 MA's), (Start: 51 @27216 has 4 MA's), (62, 27297), (63, 27309), (65, 27330), (74, 27372), (75, 27381), (83, 27435), (84, 27438), (85, 27444), (87, 27456), (92, 27483), (93, 27489),

Gene: LilTurb_35 Start: 27022, Stop: 27462, Start Num: 46

Candidate Starts for LilTurb_35:

(Start: 46 @27022 has 58 MA's), (Start: 51 @27049 has 4 MA's), (62, 27130), (63, 27142), (65, 27163), (74, 27205), (75, 27214), (83, 27268), (84, 27271), (85, 27277), (87, 27289), (92, 27316), (93, 27322),

Gene: LittleB_34 Start: 26711, Stop: 27136, Start Num: 44

Candidate Starts for LittleB_34:

(32, 26630), (Start: 44 @26711 has 273 MA's), (Start: 47 @26717 has 2 MA's), (Start: 52 @26735 has 1 MA's), (57, 26768), (59, 26780), (63, 26822), (65, 26837), (79, 26921), (84, 26942), (85, 26948), (87, 26960), (93, 26993), (94, 26996), (97, 27017),

Gene: LittleCherry_31 Start: 25945, Stop: 26373, Start Num: 43

Candidate Starts for LittleCherry_31:

(Start: 43 @25945 has 40 MA's), (57, 26002), (65, 26077), (75, 26128), (84, 26185), (92, 26230), (93, 26236), (94, 26239), (102, 26284), (104, 26293), (111, 26329),

Gene: LittleGuy_34 Start: 26711, Stop: 27139, Start Num: 44

Candidate Starts for LittleGuy_34:

(Start: 37 @26669 has 1 MA's), (Start: 44 @26711 has 273 MA's), (Start: 50 @26729 has 2 MA's), (Start: 54 @26753 has 2 MA's), (63, 26822), (65, 26837), (68, 26849), (71, 26864), (80, 26927), (84, 26945), (85, 26951), (87, 26963), (90, 26987), (92, 26990), (93, 26996),

Gene: LochMonster_34 Start: 26764, Stop: 27174, Start Num: 50

Candidate Starts for LochMonster_34:

(Start: 37 @26704 has 1 MA's), (Start: 44 @26746 has 273 MA's), (Start: 50 @26764 has 2 MA's), (Start: 54 @26788 has 2 MA's), (63, 26857), (65, 26872), (67, 26881), (68, 26884), (71, 26899), (80, 26962), (84, 26980), (85, 26986), (87, 26998), (90, 27022), (92, 27025), (93, 27031),

Gene: Lorenzo_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Lorenzo_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Louie6_37 Start: 27403, Stop: 27834, Start Num: 45

Candidate Starts for Louie6_37:

(31, 27319), (Start: 42 @27397 has 2 MA's), (Start: 45 @27403 has 11 MA's), (Start: 52 @27427 has 1 MA's), (63, 27514), (65, 27535), (66, 27538), (71, 27562), (79, 27622), (81, 27628), (84, 27643), (85, 27649), (91, 27691), (93, 27700), (94, 27703), (103, 27754), (104, 27757), (114, 27796),

Gene: LugYA_39 Start: 27200, Stop: 27631, Start Num: 44

Candidate Starts for LugYA_39:

(19, 27086), (Start: 21 @27092 has 9 MA's), (Start: 44 @27200 has 273 MA's), (57, 27269), (65, 27338), (66, 27341), (75, 27389), (85, 27452), (87, 27464), (93, 27497), (94, 27500), (103, 27551), (104, 27554), (114, 27593),

Gene: Lunsford_35 Start: 26707, Stop: 27132, Start Num: 44

Candidate Starts for Lunsford_35:

(32, 26626), (Start: 39 @26686 has 8 MA's), (Start: 44 @26707 has 273 MA's), (Start: 47 @26713 has 2 MA's), (Start: 52 @26731 has 1 MA's), (57, 26764), (59, 26776), (63, 26818), (65, 26833), (79, 26917), (84, 26938), (85, 26944), (87, 26956), (93, 26989), (94, 26992), (97, 27013),

Gene: MA5_34 Start: 26354, Stop: 26785, Start Num: 44

Candidate Starts for MA5_34:

(19, 26240), (Start: 21 @26246 has 9 MA's), (Start: 44 @26354 has 273 MA's), (Start: 46 @26357 has 58 MA's), (64, 26480), (65, 26498), (68, 26510), (74, 26540), (75, 26549), (83, 26603), (84, 26606), (85, 26612), (87, 26624), (93, 26657), (94, 26660), (104, 26714), (114, 26747),

Gene: MK4_34 Start: 26462, Stop: 26887, Start Num: 44

Candidate Starts for MK4_34:

(Start: 44 @26462 has 273 MA's), (Start: 46 @26465 has 58 MA's), (63, 26585), (65, 26600), (83, 26705), (85, 26714), (87, 26726), (93, 26759), (103, 26813), (104, 26816), (114, 26849),

Gene: MadMarie_37 Start: 27202, Stop: 27633, Start Num: 44

Candidate Starts for MadMarie_37:

(19, 27088), (Start: 21 @27094 has 9 MA's), (Start: 44 @27202 has 273 MA's), (65, 27340), (66, 27343), (75, 27391), (85, 27454), (87, 27466), (93, 27499), (94, 27502), (103, 27553), (104, 27556), (114, 27595),

Gene: Mainiac_37 Start: 27193, Stop: 27624, Start Num: 44

Candidate Starts for Mainiac_37:

(19, 27079), (Start: 21 @27085 has 9 MA's), (Start: 44 @27193 has 273 MA's), (57, 27262), (65, 27331), (66, 27334), (75, 27382), (85, 27445), (87, 27457), (93, 27490), (94, 27493), (103, 27544), (104, 27547), (114, 27586),

Gene: Malec_37 Start: 27760, Stop: 28200, Start Num: 46

Candidate Starts for Malec_37:

(34, 27694), (Start: 46 @27760 has 58 MA's), (62, 27868), (63, 27880), (65, 27901), (74, 27943), (79, 27988), (83, 28006), (85, 28015), (87, 28027), (92, 28054), (93, 28060),

Gene: Malinsilva_39 Start: 27192, Stop: 27623, Start Num: 44

Candidate Starts for Malinsilva_39:

(19, 27078), (Start: 21 @27084 has 9 MA's), (Start: 44 @27192 has 273 MA's), (57, 27261), (65, 27330), (66, 27333), (75, 27381), (85, 27444), (87, 27456), (93, 27489), (94, 27492), (103, 27543), (104, 27546), (114, 27585),

Gene: Manu_37 Start: 27022, Stop: 27459, Start Num: 44

Candidate Starts for Manu_37:

(24, 26920), (Start: 44 @27022 has 273 MA's), (65, 27166), (74, 27208), (85, 27280), (87, 27292), (93, 27325), (94, 27328), (103, 27379), (104, 27382),

Gene: MarQuardt_37 Start: 27093, Stop: 27632, Start Num: 21

Candidate Starts for MarQuardt_37:

(19, 27087), (Start: 21 @27093 has 9 MA's), (Start: 44 @27201 has 273 MA's), (57, 27270), (65, 27339), (66, 27342), (75, 27390), (85, 27453), (87, 27465), (93, 27498), (94, 27501), (103, 27552), (104, 27555), (114, 27594),

Gene: Marie_37 Start: 27091, Stop: 27630, Start Num: 21

Candidate Starts for Marie_37:

(19, 27085), (Start: 21 @27091 has 9 MA's), (Start: 44 @27199 has 273 MA's), (57, 27268), (65, 27337), (66, 27340), (75, 27388), (85, 27451), (87, 27463), (93, 27496), (94, 27499), (103, 27550), (104, 27553), (114, 27592),

Gene: Marius_37 Start: 27022, Stop: 27459, Start Num: 44

Candidate Starts for Marius_37:

(24, 26920), (Start: 44 @27022 has 273 MA's), (65, 27166), (74, 27208), (85, 27280), (87, 27292), (93, 27325), (94, 27328), (103, 27379), (104, 27382),

Gene: MarysWell_30 Start: 25993, Stop: 26421, Start Num: 43

Candidate Starts for MarysWell_30:

(Start: 43 @25993 has 40 MA's), (65, 26125), (75, 26176), (84, 26233), (87, 26251), (93, 26284), (94, 26287), (102, 26332), (104, 26341), (111, 26377),

Gene: Maverick_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Maverick_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Maxo_34 Start: 26631, Stop: 27077, Start Num: 44

Candidate Starts for Maxo_34:

(Start: 44 @26631 has 273 MA's), (Start: 46 @26634 has 58 MA's), (48, 26640), (Start: 51 @26661 has 4 MA's), (60, 26727), (65, 26775), (66, 26778), (68, 26787), (74, 26817), (83, 26880), (85, 26889), (93, 26934),

Gene: Mazhar510_34 Start: 26711, Stop: 27136, Start Num: 44

Candidate Starts for Mazhar510_34:

(32, 26630), (Start: 39 @26690 has 8 MA's), (Start: 44 @26711 has 273 MA's), (Start: 47 @26717 has 2 MA's), (Start: 52 @26735 has 1 MA's), (57, 26768), (59, 26780), (63, 26822), (65, 26837), (79, 26921), (84, 26942), (85, 26948), (87, 26960), (93, 26993), (94, 26996), (97, 27017),

Gene: Medusa_34 Start: 26634, Stop: 27077, Start Num: 46

Candidate Starts for Medusa_34:

(Start: 44 @26631 has 273 MA's), (Start: 46 @26634 has 58 MA's), (48, 26640), (Start: 51 @26661 has 4 MA's), (60, 26727), (65, 26775), (66, 26778), (68, 26787), (74, 26817), (83, 26880), (85, 26889), (93, 26934),

Gene: MeeZee_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for MeeZee_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Melvin_35 Start: 26633, Stop: 27076, Start Num: 46

Candidate Starts for Melvin_35:

(Start: 44 @26630 has 273 MA's), (Start: 46 @26633 has 58 MA's), (48, 26639), (Start: 51 @26660 has 4 MA's), (60, 26726), (65, 26774), (66, 26777), (68, 26786), (74, 26816), (83, 26879), (85, 26888), (93, 26933),

Gene: Methuselah_36 Start: 27398, Stop: 27829, Start Num: 45

Candidate Starts for Methuselah_36:

(31, 27314), (Start: 42 @27392 has 2 MA's), (Start: 45 @27398 has 11 MA's), (Start: 52 @27422 has 1 MA's), (63, 27509), (65, 27530), (66, 27533), (71, 27557), (79, 27617), (81, 27623), (84, 27638), (85, 27644), (91, 27686), (93, 27695), (94, 27698), (103, 27749), (104, 27752), (114, 27791),

Gene: MiculUcigas_35 Start: 26892, Stop: 27329, Start Num: 44

Candidate Starts for MiculUcigas_35:

(19, 26781), (Start: 29 @26805 has 1 MA's), (Start: 44 @26892 has 273 MA's), (57, 26961), (63, 27015), (65, 27030), (74, 27072), (75, 27081), (83, 27135), (85, 27144), (93, 27189), (94, 27192),

Gene: Milcery_31 Start: 25949, Stop: 26377, Start Num: 43

Candidate Starts for Milcery_31:

(Start: 43 @25949 has 40 MA's), (57, 26006), (65, 26081), (75, 26132), (84, 26189), (87, 26207), (92, 26234), (93, 26240), (94, 26243), (102, 26288), (104, 26297), (111, 26333),

Gene: Millski_33 Start: 26693, Stop: 27139, Start Num: 39

Candidate Starts for Millski_33:

(32, 26633), (Start: 39 @26693 has 8 MA's), (Start: 44 @26714 has 273 MA's), (Start: 47 @26720 has 2 MA's), (Start: 52 @26738 has 1 MA's), (57, 26771), (59, 26783), (63, 26825), (65, 26840), (79, 26924), (84, 26945), (85, 26951), (87, 26963), (93, 26996), (94, 26999), (97, 27020),

Gene: Miramae_34 Start: 27036, Stop: 27464, Start Num: 44

Candidate Starts for Miramae_34:

(Start: 44 @27036 has 273 MA's), (Start: 50 @27054 has 2 MA's), (59, 27105), (63, 27147), (65, 27162), (67, 27171), (68, 27174), (80, 27252), (84, 27270), (85, 27276), (87, 27288), (93, 27321), (100, 27354), (118, 27432),

Gene: Misomonster_39 Start: 27401, Stop: 27832, Start Num: 45

Candidate Starts for Misomonster_39:

(31, 27317), (Start: 42 @27395 has 2 MA's), (Start: 45 @27401 has 11 MA's), (Start: 52 @27425 has 1 MA's), (63, 27512), (65, 27533), (66, 27536), (79, 27620), (81, 27626), (84, 27641), (85, 27647), (91, 27689), (93, 27698), (94, 27701), (103, 27752), (104, 27755), (114, 27794),

Gene: ModicumRichard_121 Start: 66224, Stop: 65715, Start Num: 46

Candidate Starts for ModicumRichard_121:

(1, 66527), (9, 66380), (Start: 46 @66224 has 58 MA's), (Start: 52 @66200 has 1 MA's), (63, 66113), (74, 66050), (75, 66041), (84, 65987), (85, 65981),

Gene: MoneyMay_37 Start: 27091, Stop: 27630, Start Num: 21

Candidate Starts for MoneyMay_37:

(19, 27085), (Start: 21 @27091 has 9 MA's), (Start: 44 @27199 has 273 MA's), (57, 27268), (65, 27337), (66, 27340), (75, 27388), (85, 27451), (87, 27463), (93, 27496), (94, 27499), (103, 27550), (104, 27553), (114, 27592),

Gene: Morgana_128 Start: 68394, Stop: 67885, Start Num: 46

Candidate Starts for Morgana_128:

(Start: 46 @68394 has 58 MA's), (Start: 52 @68370 has 1 MA's), (63, 68283), (74, 68220), (75, 68211), (76, 68205), (84, 68157), (85, 68151),

Gene: Morpher26_34 Start: 26764, Stop: 27189, Start Num: 44

Candidate Starts for Morpher26_34:

(Start: 44 @26764 has 273 MA's), (57, 26821), (59, 26833), (63, 26875), (65, 26890), (66, 26893), (67, 26899), (79, 26974), (84, 26995), (87, 27013), (93, 27046), (94, 27049), (97, 27070),

Gene: Morrow_34 Start: 26638, Stop: 27081, Start Num: 46

Candidate Starts for Morrow_34:

(Start: 44 @26635 has 273 MA's), (Start: 46 @26638 has 58 MA's), (48, 26644), (Start: 51 @26665 has 4 MA's), (60, 26731), (65, 26779), (66, 26782), (68, 26791), (74, 26821), (83, 26884), (85, 26893), (93, 26938),

Gene: MuchMore_39 Start: 27192, Stop: 27623, Start Num: 44

Candidate Starts for MuchMore_39:

(19, 27078), (Start: 21 @27084 has 9 MA's), (Start: 44 @27192 has 273 MA's), (57, 27261), (65, 27330), (66, 27333), (75, 27381), (85, 27444), (87, 27456), (93, 27489), (94, 27492), (103, 27543), (104, 27546), (114, 27585),

Gene: Mundrea_34 Start: 26746, Stop: 27174, Start Num: 44

Candidate Starts for Mundrea_34:

(Start: 44 @26746 has 273 MA's), (Start: 50 @26764 has 2 MA's), (Start: 54 @26788 has 2 MA's), (63, 26857), (65, 26872), (68, 26884), (80, 26962), (83, 26977), (85, 26986), (92, 27025), (93, 27031), (118, 27142),

Gene: MyraDee_31 Start: 24244, Stop: 24663, Start Num: 44

Candidate Starts for MyraDee_31:

(36, 24199), (Start: 44 @24244 has 273 MA's), (57, 24301), (65, 24376), (68, 24388), (73, 24409), (87, 24502), (93, 24529), (94, 24532), (102, 24577), (103, 24583), (104, 24586),

Gene: NaSiaTalie_35 Start: 26890, Stop: 27327, Start Num: 44

Candidate Starts for NaSiaTalie_35:

(19, 26779), (Start: 29 @26803 has 1 MA's), (Start: 44 @26890 has 273 MA's), (57, 26959), (63, 27013), (65, 27028), (74, 27070), (75, 27079), (83, 27133), (85, 27142), (93, 27187), (94, 27190),

Gene: Naca_32 Start: 26187, Stop: 26615, Start Num: 43

Candidate Starts for Naca_32:

(Start: 43 @26187 has 40 MA's), (59, 26256), (60, 26271), (63, 26298), (65, 26319), (81, 26412), (84, 26427), (87, 26445), (92, 26472), (93, 26478), (94, 26481), (102, 26526), (104, 26535), (111, 26571),

Gene: Naiad_30 Start: 24199, Stop: 24675, Start Num: 44

Candidate Starts for Naiad_30:

(Start: 44 @24199 has 273 MA's), (49, 24214), (65, 24352), (66, 24355), (69, 24367), (71, 24379), (78, 24442), (80, 24448), (87, 24484), (100, 24559), (103, 24580), (104, 24583), (109, 24616),

Gene: Naji_38 Start: 26865, Stop: 27302, Start Num: 44

Candidate Starts for Naji_38:

(Start: 44 @26865 has 273 MA's), (63, 26988), (65, 27003), (74, 27045), (75, 27054), (84, 27111), (87, 27129), (93, 27162), (94, 27165), (97, 27186),

Gene: Nancinator_30 Start: 24187, Stop: 24663, Start Num: 44

Candidate Starts for Nancinator_30:

(Start: 44 @24187 has 273 MA's), (65, 24340), (66, 24343), (69, 24355), (71, 24367), (78, 24430), (80, 24436), (87, 24472), (100, 24547), (103, 24568), (104, 24571), (109, 24604),

Gene: Natosaleda_30 Start: 24186, Stop: 24662, Start Num: 44

Candidate Starts for Natosaleda_30:

(Start: 44 @24186 has 273 MA's), (65, 24339), (66, 24342), (69, 24354), (71, 24366), (78, 24429), (80, 24435), (87, 24471), (100, 24546), (103, 24567), (104, 24570), (109, 24603),

Gene: NearlyHeadless_31 Start: 25179, Stop: 25607, Start Num: 44

Candidate Starts for NearlyHeadless_31:

(11, 25041), (17, 25056), (24, 25080), (25, 25083), (Start: 44 @25179 has 273 MA's), (63, 25290), (65, 25311), (68, 25323), (71, 25338), (73, 25344), (79, 25398), (80, 25401), (83, 25416), (86, 25428), (87, 25437), (92, 25464), (93, 25470), (94, 25473), (104, 25527),

Gene: Nebs_34 Start: 26629, Stop: 27075, Start Num: 44

Candidate Starts for Nebs_34:

(Start: 44 @26629 has 273 MA's), (Start: 46 @26632 has 58 MA's), (48, 26638), (Start: 51 @26659 has 4 MA's), (60, 26725), (65, 26773), (66, 26776), (68, 26785), (74, 26815), (83, 26878), (85, 26887), (93, 26932),

Gene: Nemo27_34 Start: 26709, Stop: 27134, Start Num: 44

Candidate Starts for Nemo27_34:

(32, 26628), (Start: 39 @26688 has 8 MA's), (Start: 44 @26709 has 273 MA's), (Start: 47 @26715 has 2 MA's), (Start: 52 @26733 has 1 MA's), (57, 26766), (59, 26778), (63, 26820), (65, 26835), (79, 26919), (84, 26940), (85, 26946), (87, 26958), (93, 26991), (94, 26994), (97, 27015),

Gene: NicoleTera_38 Start: 28142, Stop: 28579, Start Num: 44

Candidate Starts for NicoleTera_38:

(3, 27881), (Start: 44 @28142 has 273 MA's), (57, 28211), (63, 28265), (65, 28280), (74, 28322), (75, 28331), (83, 28385), (84, 28388), (85, 28394), (87, 28406), (93, 28439), (94, 28442),

Gene: Noelle_34 Start: 26808, Stop: 27233, Start Num: 44

Candidate Starts for Noelle_34:

(32, 26727), (Start: 39 @26787 has 8 MA's), (Start: 44 @26808 has 273 MA's), (59, 26877), (63, 26919), (65, 26934), (79, 27018), (84, 27039), (85, 27045), (87, 27057), (93, 27090), (94, 27093), (100, 27123),

Gene: NorthStar_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for NorthStar_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: NotAPhaseMom_34 Start: 26714, Stop: 27139, Start Num: 44

Candidate Starts for NotAPhaseMom_34:

(32, 26633), (Start: 39 @26693 has 8 MA's), (Start: 44 @26714 has 273 MA's), (Start: 47 @26720 has 2 MA's), (Start: 52 @26738 has 1 MA's), (57, 26771), (59, 26783), (63, 26825), (65, 26840), (79, 26924), (84, 26945), (85, 26951), (87, 26963), (93, 26996), (94, 26999), (97, 27020),

Gene: NothingSpecial_36 Start: 28302, Stop: 28745, Start Num: 44

Candidate Starts for NothingSpecial_36:

(33, 28236), (Start: 44 @28302 has 273 MA's), (Start: 46 @28305 has 58 MA's), (65, 28446), (74, 28488), (76, 28503), (83, 28551), (84, 28554), (85, 28560), (87, 28572), (93, 28605),

Gene: Nyxis_34 Start: 26705, Stop: 27133, Start Num: 44

Candidate Starts for Nyxis_34:

(Start: 37 @26663 has 1 MA's), (Start: 44 @26705 has 273 MA's), (Start: 50 @26723 has 2 MA's), (Start: 54 @26747 has 2 MA's), (63, 26816), (65, 26831), (68, 26843), (71, 26858), (80, 26921), (84, 26939), (85, 26945), (87, 26957), (92, 26984), (93, 26990),

Gene: OKCentral2016_34 Start: 26449, Stop: 26865, Start Num: 46

Candidate Starts for OKCentral2016_34:

(34, 26377), (Start: 46 @26449 has 58 MA's), (Start: 54 @26485 has 2 MA's), (63, 26554), (65, 26569), (68, 26581), (79, 26653), (84, 26674), (85, 26680), (87, 26692), (93, 26725), (105, 26785),

Gene: OKaNui_35 Start: 26763, Stop: 27188, Start Num: 44

Candidate Starts for OKaNui_35:

(32, 26682), (Start: 39 @26742 has 8 MA's), (Start: 44 @26763 has 273 MA's), (Start: 47 @26769 has 2 MA's), (Start: 52 @26787 has 1 MA's), (57, 26820), (59, 26832), (63, 26874), (65, 26889), (79, 26973), (84, 26994), (85, 27000), (87, 27012), (93, 27045), (94, 27048), (97, 27069),

Gene: ObLaDi_120 Start: 65626, Stop: 65117, Start Num: 46

Candidate Starts for ObLaDi_120:

(1, 65929), (9, 65782), (Start: 46 @65626 has 58 MA's), (Start: 52 @65602 has 1 MA's), (63, 65515), (74, 65452), (75, 65443), (84, 65389), (85, 65383),

Gene: Obama12_35 Start: 26999, Stop: 27415, Start Num: 51

Candidate Starts for Obama12_35:

(Start: 44 @26969 has 273 MA's), (Start: 46 @26972 has 58 MA's), (48, 26978), (Start: 51 @26999 has 4 MA's), (60, 27065), (65, 27113), (66, 27116), (68, 27125), (74, 27155), (83, 27218), (85, 27227), (93, 27272), (118, 27383),

Gene: Odin_34 Start: 25599, Stop: 26054, Start Num: 44

Candidate Starts for Odin_34:

(Start: 44 @25599 has 273 MA's), (57, 25668), (59, 25680), (65, 25737), (66, 25740), (67, 25746), (68, 25749), (75, 25788), (87, 25863), (93, 25896), (94, 25899), (103, 25950), (104, 25953),

Gene: Ohfah_34 Start: 26629, Stop: 27075, Start Num: 44

Candidate Starts for Ohfah_34:

(Start: 44 @26629 has 273 MA's), (Start: 46 @26632 has 58 MA's), (48, 26638), (Start: 51 @26659 has 4 MA's), (60, 26725), (65, 26773), (66, 26776), (68, 26785), (74, 26815), (83, 26878), (85, 26887), (93, 26932),

Gene: OlanP_36 Start: 27203, Stop: 27640, Start Num: 44

Candidate Starts for OlanP_36:

(24, 27101), (Start: 44 @27203 has 273 MA's), (65, 27347), (74, 27389), (85, 27461), (87, 27473), (93, 27506), (94, 27509), (103, 27560), (104, 27563),

Gene: Ollie_37 Start: 27070, Stop: 27501, Start Num: 44

Candidate Starts for Ollie_37:

(19, 26956), (Start: 21 @26962 has 9 MA's), (Start: 44 @27070 has 273 MA's), (65, 27208), (66, 27211), (75, 27259), (85, 27322), (87, 27334), (93, 27367), (94, 27370), (103, 27421), (104, 27424), (114, 27463),

Gene: P28Green_37 Start: 27202, Stop: 27633, Start Num: 44

Candidate Starts for P28Green_37:

(19, 27088), (Start: 21 @27094 has 9 MA's), (Start: 44 @27202 has 273 MA's), (57, 27271), (65, 27340), (66, 27343), (75, 27391), (85, 27454), (87, 27466), (93, 27499), (94, 27502), (103, 27553), (104, 27556), (114, 27595),

Gene: PGHhamlin_39 Start: 27192, Stop: 27623, Start Num: 44

Candidate Starts for PGHhamlin_39:

(19, 27078), (Start: 21 @27084 has 9 MA's), (Start: 44 @27192 has 273 MA's), (57, 27261), (65, 27330), (66, 27333), (75, 27381), (85, 27444), (87, 27456), (93, 27489), (94, 27492), (103, 27543), (104, 27546), (114, 27585),

Gene: Palestino_33 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Palestino_33:

(10, 26563), (18, 26587), (32, 26629), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Partridge_30 Start: 24233, Stop: 24709, Start Num: 44

Candidate Starts for Partridge_30:

(Start: 44 @24233 has 273 MA's), (65, 24386), (66, 24389), (69, 24401), (71, 24413), (78, 24476), (80, 24482), (87, 24518), (100, 24593), (102, 24608), (103, 24614), (104, 24617),

Gene: Pawn_37 Start: 27023, Stop: 27460, Start Num: 44

Candidate Starts for Pawn_37:

(24, 26921), (Start: 44 @27023 has 273 MA's), (65, 27167), (74, 27209), (85, 27281), (87, 27293), (93, 27326), (94, 27329), (103, 27380), (104, 27383),

Gene: PeaceMeal1_33 Start: 25547, Stop: 25981, Start Num: 44

Candidate Starts for PeaceMeal1_33:

(Start: 44 @25547 has 273 MA's), (63, 25658), (65, 25673), (66, 25676), (68, 25685), (80, 25763), (85, 25787), (87, 25799), (93, 25832), (94, 25835),

Gene: Peaches_34 Start: 26709, Stop: 27134, Start Num: 44

Candidate Starts for Peaches_34:

(32, 26628), (Start: 39 @26688 has 8 MA's), (Start: 44 @26709 has 273 MA's), (Start: 47 @26715 has 2 MA's), (Start: 52 @26733 has 1 MA's), (57, 26766), (59, 26778), (63, 26820), (65, 26835), (79, 26919), (84, 26940), (85, 26946), (87, 26958), (93, 26991), (94, 26994), (97, 27015),

Gene: Pembroke_37 Start: 27201, Stop: 27632, Start Num: 44

Candidate Starts for Pembroke_37:

(19, 27087), (Start: 21 @27093 has 9 MA's), (Start: 44 @27201 has 273 MA's), (57, 27270), (65, 27339), (66, 27342), (75, 27390), (85, 27453), (87, 27465), (93, 27498), (94, 27501), (103, 27552), (104, 27555), (114, 27594),

Gene: Penny1_37 Start: 27200, Stop: 27631, Start Num: 44

Candidate Starts for Penny1_37:

(19, 27086), (Start: 21 @27092 has 9 MA's), (Start: 44 @27200 has 273 MA's), (57, 27269), (65, 27338), (66, 27341), (75, 27389), (85, 27452), (87, 27464), (93, 27497), (94, 27500), (103, 27551), (104, 27554), (114, 27593),

Gene: Perplexer_34 Start: 26761, Stop: 27186, Start Num: 44

Candidate Starts for Perplexer_34:

(Start: 44 @26761 has 273 MA's), (57, 26818), (59, 26830), (63, 26872), (65, 26887), (66, 26890), (67, 26896), (79, 26971), (84, 26992), (87, 27010), (93, 27043), (94, 27046), (97, 27067),

Gene: PeterPeter_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for PeterPeter_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: PetiteSangsue_34 Start: 26764, Stop: 27189, Start Num: 44

Candidate Starts for PetiteSangsue_34:

(Start: 44 @26764 has 273 MA's), (57, 26821), (59, 26833), (63, 26875), (65, 26890), (66, 26893), (67, 26899), (79, 26974), (84, 26995), (87, 27013), (93, 27046), (94, 27049), (97, 27070),

Gene: PetterN_33 Start: 25547, Stop: 25975, Start Num: 43

Candidate Starts for PetterN_33:

(Start: 43 @25547 has 40 MA's), (59, 25616), (60, 25631), (63, 25658), (65, 25679), (81, 25772), (84, 25787), (87, 25805), (92, 25832), (93, 25838), (94, 25841), (102, 25886), (104, 25895), (111, 25931),

Gene: Ph8s_36 Start: 25834, Stop: 26274, Start Num: 44

Candidate Starts for Ph8s_36:

(Start: 44 @25834 has 273 MA's), (59, 25915), (65, 25972), (66, 25975), (68, 25984), (75, 26023), (85, 26086), (87, 26098), (93, 26131), (94, 26134), (103, 26185), (104, 26188), (106, 26194), (113, 26227), (116, 26236), (122, 26257),

Gene: Phacado_34 Start: 26709, Stop: 27134, Start Num: 44

Candidate Starts for Phacado_34:

(32, 26628), (Start: 39 @26688 has 8 MA's), (Start: 44 @26709 has 273 MA's), (Start: 47 @26715 has 2 MA's), (Start: 52 @26733 has 1 MA's), (57, 26766), (59, 26778), (63, 26820), (65, 26835), (79, 26919), (84, 26940), (85, 26946), (87, 26958), (93, 26991), (94, 26994), (97, 27015),

Gene: Phaded_39 Start: 28735, Stop: 29169, Start Num: 46

Candidate Starts for Phaded_39:

(Start: 46 @28735 has 58 MA's), (65, 28870), (74, 28912), (83, 28975), (85, 28984), (87, 28996), (93, 29029),

Gene: PhailMary_29 Start: 24508, Stop: 24984, Start Num: 44

Candidate Starts for PhailMary_29:

(Start: 44 @24508 has 273 MA's), (49, 24523), (65, 24661), (66, 24664), (69, 24676), (71, 24688), (78, 24751), (80, 24757), (87, 24793), (100, 24868), (103, 24889), (104, 24892), (109, 24925),

Gene: Phantastic_34 Start: 26487, Stop: 26918, Start Num: 44

Candidate Starts for Phantastic_34:

(6, 26301), (19, 26373), (Start: 21 @26379 has 9 MA's), (Start: 44 @26487 has 273 MA's), (64, 26613), (65, 26631), (68, 26643), (74, 26673), (75, 26682), (83, 26736), (85, 26745), (87, 26757), (93, 26790), (104, 26847), (114, 26880),

Gene: Phelipe_34 Start: 26632, Stop: 27078, Start Num: 44

Candidate Starts for Phelipe_34:

(Start: 44 @26632 has 273 MA's), (Start: 46 @26635 has 58 MA's), (48, 26641), (Start: 51 @26662 has 4 MA's), (60, 26728), (65, 26776), (66, 26779), (68, 26788), (74, 26818), (83, 26881), (85, 26890), (93, 26935),

Gene: Phighter1804_34 Start: 26749, Stop: 27177, Start Num: 44

Candidate Starts for Phighter1804_34:

(Start: 37 @26707 has 1 MA's), (Start: 44 @26749 has 273 MA's), (Start: 50 @26767 has 2 MA's), (Start: 54 @26791 has 2 MA's), (63, 26860), (65, 26875), (67, 26884), (68, 26887), (71, 26902), (80, 26965), (84, 26983), (85, 26989), (87, 27001), (90, 27025), (92, 27028), (93, 27034),

Gene: Phillis_31 Start: 25226, Stop: 25666, Start Num: 44

Candidate Starts for Phillis_31:

(Start: 44 @25226 has 273 MA's), (Start: 54 @25277 has 2 MA's), (55, 25280), (59, 25304), (63, 25346), (65, 25367), (69, 25382), (70, 25391), (73, 25400), (76, 25424), (85, 25481), (87, 25493), (88, 25508), (91, 25526), (92, 25529), (93, 25535), (94, 25538), (101, 25574), (104, 25592), (112, 25637),

Gene: PhishRPhriends_35 Start: 26200, Stop: 26637, Start Num: 44

Candidate Starts for PhishRPhriends_35:

(24, 26098), (Start: 44 @26200 has 273 MA's), (65, 26344), (74, 26386), (85, 26458), (87, 26470), (93, 26503), (94, 26506), (103, 26557), (104, 26560),

Gene: Phlorence_31 Start: 26053, Stop: 26472, Start Num: 43

Candidate Starts for Phlorence_31:

(Start: 43 @26053 has 40 MA's), (57, 26110), (65, 26185), (84, 26293), (87, 26311), (92, 26338), (93, 26344), (94, 26347), (102, 26392), (104, 26401),

Gene: Phoebe_37 Start: 27192, Stop: 27623, Start Num: 44

Candidate Starts for Phoebe_37:

(19, 27078), (Start: 21 @27084 has 9 MA's), (Start: 44 @27192 has 273 MA's), (57, 27261), (65, 27330), (66, 27333), (75, 27381), (85, 27444), (87, 27456), (93, 27489), (94, 27492), (103, 27543), (104, 27546), (114, 27585),

Gene: Phontbonne_34 Start: 26706, Stop: 27134, Start Num: 44

Candidate Starts for Phontbonne_34:

(Start: 37 @26664 has 1 MA's), (Start: 44 @26706 has 273 MA's), (Start: 50 @26724 has 2 MA's), (Start: 54 @26748 has 2 MA's), (63, 26817), (65, 26832), (67, 26841), (68, 26844), (71, 26859), (80, 26922), (84, 26940), (85, 26946), (87, 26958), (90, 26982), (92, 26985), (93, 26991),

Gene: Phoxy_37 Start: 27399, Stop: 27830, Start Num: 45

Candidate Starts for Phoxy_37:

(31, 27315), (Start: 42 @27393 has 2 MA's), (Start: 45 @27399 has 11 MA's), (Start: 52 @27423 has 1 MA's), (63, 27510), (65, 27531), (66, 27534), (71, 27558), (79, 27618), (81, 27624), (84, 27639), (85,

27645), (91, 27687), (93, 27696), (94, 27699), (103, 27750), (104, 27753), (114, 27792),

Gene: Phrankenstein_30 Start: 24132, Stop: 24608, Start Num: 44

Candidate Starts for Phrankenstein_30:

(Start: 44 @24132 has 273 MA's), (49, 24147), (65, 24285), (66, 24288), (69, 24300), (71, 24312), (78, 24375), (80, 24381), (87, 24417), (100, 24492), (103, 24513), (104, 24516), (109, 24549),

Gene: Phranny_37 Start: 27008, Stop: 27445, Start Num: 44

Candidate Starts for Phranny_37:

(24, 26906), (Start: 44 @27008 has 273 MA's), (65, 27152), (74, 27194), (85, 27266), (87, 27278), (93, 27311), (94, 27314), (103, 27365), (104, 27368),

Gene: PickleBack_31 Start: 25767, Stop: 26186, Start Num: 43

Candidate Starts for PickleBack_31:

(Start: 43 @25767 has 40 MA's), (57, 25824), (65, 25899), (84, 26007), (87, 26025), (92, 26052), (93, 26058), (94, 26061), (102, 26106), (104, 26115),

Gene: Pipcraft_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Pipcraft_34:

(32, 26629), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Piro94_35 Start: 27208, Stop: 27645, Start Num: 44

Candidate Starts for Piro94_35:

(Start: 44 @27208 has 273 MA's), (65, 27346), (74, 27388), (75, 27397), (76, 27403), (83, 27451), (93, 27505), (94, 27508),

Gene: Pistachio_35 Start: 26255, Stop: 26680, Start Num: 44

Candidate Starts for Pistachio_35:

(19, 26141), (Start: 21 @26147 has 9 MA's), (Start: 40 @26240 has 3 MA's), (Start: 44 @26255 has 273 MA's), (65, 26393), (83, 26498), (84, 26501), (85, 26507), (87, 26519), (93, 26552), (94, 26555), (104, 26609), (114, 26642),

Gene: Polymorphads_34 Start: 26628, Stop: 27074, Start Num: 44

Candidate Starts for Polymorphads_34:

(Start: 44 @26628 has 273 MA's), (Start: 46 @26631 has 58 MA's), (48, 26637), (Start: 51 @26658 has 4 MA's), (60, 26724), (65, 26772), (66, 26775), (68, 26784), (74, 26814), (83, 26877), (85, 26886), (93, 26931),

Gene: Pomar16_38 Start: 26906, Stop: 27343, Start Num: 44

Candidate Starts for Pomar16_38:

(Start: 44 @26906 has 273 MA's), (63, 27029), (65, 27044), (74, 27086), (75, 27095), (84, 27152), (87, 27170), (93, 27203), (94, 27206),

Gene: Poompha_33 Start: 25545, Stop: 25979, Start Num: 44

Candidate Starts for Poompha_33:

(Start: 44 @25545 has 273 MA's), (63, 25656), (65, 25671), (66, 25674), (68, 25683), (80, 25761), (85, 25785), (87, 25797), (93, 25830), (94, 25833),

Gene: PotatoSplit_38 Start: 27200, Stop: 27631, Start Num: 44

Candidate Starts for PotatoSplit_38:

(19, 27086), (Start: 21 @27092 has 9 MA's), (Start: 44 @27200 has 273 MA's), (57, 27269), (65, 27338), (66, 27341), (75, 27389), (85, 27452), (87, 27464), (93, 27497), (94, 27500), (103, 27551), (104, 27554), (114, 27593),

Gene: Power_34 Start: 26817, Stop: 27251, Start Num: 46

Candidate Starts for Power_34:

(Start: 46 @26817 has 58 MA's), (65, 26952), (74, 26994), (83, 27057), (85, 27066), (87, 27078), (93, 27111),

Gene: Pukovnik_36 Start: 27948, Stop: 28388, Start Num: 46

Candidate Starts for Pukovnik_36:

(Start: 44 @27945 has 273 MA's), (Start: 46 @27948 has 58 MA's), (48, 27954), (65, 28089), (74, 28131), (75, 28140), (83, 28194), (85, 28203), (87, 28215), (93, 28248), (94, 28251),

Gene: Pumbaa_34 Start: 26757, Stop: 27185, Start Num: 44

Candidate Starts for Pumbaa_34:

(Start: 37 @26715 has 1 MA's), (Start: 44 @26757 has 273 MA's), (Start: 50 @26775 has 2 MA's), (Start: 54 @26799 has 2 MA's), (63, 26868), (65, 26883), (67, 26892), (68, 26895), (71, 26910), (80, 26973), (84, 26991), (85, 26997), (87, 27009), (90, 27033), (92, 27036), (93, 27042),

Gene: Puppy_35 Start: 26325, Stop: 26750, Start Num: 44

Candidate Starts for Puppy_35:

(19, 26211), (Start: 21 @26217 has 9 MA's), (Start: 40 @26310 has 3 MA's), (Start: 44 @26325 has 273 MA's), (Start: 51 @26355 has 4 MA's), (65, 26463), (83, 26568), (84, 26571), (85, 26577), (87, 26589), (93, 26622), (94, 26625), (104, 26679), (114, 26712),

Gene: PurpleHaze_36 Start: 27021, Stop: 27458, Start Num: 44

Candidate Starts for PurpleHaze_36:

(24, 26919), (Start: 44 @27021 has 273 MA's), (65, 27165), (74, 27207), (85, 27279), (87, 27291), (93, 27324), (94, 27327), (103, 27378), (104, 27381),

Gene: QueenB2_35 Start: 26878, Stop: 27315, Start Num: 44

Candidate Starts for QueenB2_35:

(19, 26767), (Start: 29 @26791 has 1 MA's), (Start: 44 @26878 has 273 MA's), (63, 27001), (65, 27016), (74, 27058), (75, 27067), (83, 27121), (84, 27124), (85, 27130), (87, 27142), (93, 27175),

Gene: QueenBeesly_35 Start: 26764, Stop: 27198, Start Num: 46

Candidate Starts for QueenBeesly_35:

(Start: 46 @26764 has 58 MA's), (65, 26899), (74, 26941), (83, 27004), (85, 27013), (87, 27025), (93, 27058),

Gene: RER2_23 Start: 21073, Stop: 21534, Start Num: 49

Candidate Starts for RER2_23:

(Start: 44 @21058 has 273 MA's), (49, 21073), (65, 21211), (66, 21214), (69, 21226), (71, 21238), (78, 21301), (80, 21307), (87, 21343), (100, 21418), (103, 21439), (104, 21442), (109, 21475),

Gene: RGL3_23 Start: 21544, Stop: 22017, Start Num: 44

Candidate Starts for RGL3_23:

(4, 21337), (15, 21412), (17, 21418), (30, 21457), (Start: 44 @21544 has 273 MA's), (65, 21697), (66, 21700), (69, 21712), (71, 21724), (78, 21787), (83, 21808), (96, 21886), (103, 21925), (104, 21928), (110, 21970),

Gene: Rasputin_30 Start: 24156, Stop: 24632, Start Num: 44

Candidate Starts for Rasputin_30:

(Start: 44 @24156 has 273 MA's), (65, 24309), (66, 24312), (69, 24324), (71, 24336), (78, 24399), (80, 24405), (87, 24441), (100, 24516), (102, 24531), (103, 24537), (104, 24540),

Gene: Reba_37 Start: 26681, Stop: 27118, Start Num: 44

Candidate Starts for Reba_37:

(24, 26579), (Start: 44 @26681 has 273 MA's), (65, 26825), (74, 26867), (85, 26939), (87, 26951), (93, 26984), (94, 26987), (103, 27038), (104, 27041),

Gene: Rebeuca_36 Start: 27118, Stop: 27543, Start Num: 46

Candidate Starts for Rebeuca_36:

(34, 27046), (Start: 46 @27118 has 58 MA's), (63, 27223), (65, 27238), (68, 27250), (84, 27343), (85, 27349), (87, 27361), (93, 27394), (102, 27442),

Gene: Relief_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Relief_34:

(10, 26563), (18, 26587), (32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Retro23_36 Start: 27143, Stop: 27580, Start Num: 44

Candidate Starts for Retro23_36:

(2, 26879), (19, 27032), (Start: 29 @27056 has 1 MA's), (Start: 44 @27143 has 273 MA's), (57, 27212), (63, 27266), (65, 27281), (74, 27323), (75, 27332), (83, 27386), (84, 27389), (85, 27395), (87, 27407), (93, 27440),

Gene: RexFury_30 Start: 24217, Stop: 24693, Start Num: 44

Candidate Starts for RexFury_30:

(Start: 44 @24217 has 273 MA's), (65, 24370), (66, 24373), (69, 24385), (71, 24397), (78, 24460), (80, 24466), (87, 24502), (100, 24577), (103, 24598), (104, 24601), (109, 24634),

Gene: Roary_31 Start: 25125, Stop: 25553, Start Num: 44

Candidate Starts for Roary_31:

(11, 24987), (17, 25002), (24, 25026), (25, 25029), (Start: 44 @25125 has 273 MA's), (63, 25236), (65, 25257), (68, 25269), (71, 25284), (73, 25290), (79, 25344), (80, 25347), (86, 25374), (87, 25383), (92, 25410), (93, 25416), (94, 25419), (104, 25473),

Gene: Rockstar_34 Start: 26469, Stop: 26894, Start Num: 44

Candidate Starts for Rockstar_34:

(Start: 44 @26469 has 273 MA's), (Start: 46 @26472 has 58 MA's), (65, 26607), (75, 26658), (83, 26712), (85, 26721), (87, 26733), (93, 26766), (103, 26820), (104, 26823), (114, 26856),

Gene: Romney_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Romney_34:

(10, 26563), (11, 26566), (18, 26587), (32, 26629), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Roosevelt_34 Start: 26712, Stop: 27137, Start Num: 44

Candidate Starts for Roosevelt_34:

(10, 26565), (18, 26589), (32, 26631), (Start: 39 @26691 has 8 MA's), (Start: 44 @26712 has 273 MA's), (Start: 47 @26718 has 2 MA's), (Start: 52 @26736 has 1 MA's), (57, 26769), (59, 26781), (63,

26823), (65, 26838), (79, 26922), (84, 26943), (85, 26949), (87, 26961), (93, 26994), (94, 26997), (97, 27018),

Gene: Ruin_34 Start: 26706, Stop: 27131, Start Num: 44

Candidate Starts for Ruin_34:

(32, 26625), (Start: 39 @26685 has 8 MA's), (Start: 44 @26706 has 273 MA's), (Start: 47 @26712 has 2 MA's), (Start: 52 @26730 has 1 MA's), (57, 26763), (59, 26775), (63, 26817), (65, 26832), (79, 26916), (84, 26937), (85, 26943), (87, 26955), (93, 26988), (94, 26991), (97, 27012),

Gene: Rummer_37 Start: 27423, Stop: 27830, Start Num: 52

Candidate Starts for Rummer_37:

(31, 27315), (Start: 42 @27393 has 2 MA's), (Start: 45 @27399 has 11 MA's), (Start: 52 @27423 has 1 MA's), (63, 27510), (65, 27531), (66, 27534), (71, 27558), (79, 27618), (81, 27624), (84, 27639), (85, 27645), (91, 27687), (93, 27696), (94, 27699), (103, 27750), (104, 27753), (114, 27792),

Gene: Sabertooth_34 Start: 26709, Stop: 27134, Start Num: 44

Candidate Starts for Sabertooth_34:

(10, 26562), (18, 26586), (32, 26628), (Start: 44 @26709 has 273 MA's), (Start: 47 @26715 has 2 MA's), (Start: 52 @26733 has 1 MA's), (57, 26766), (59, 26778), (63, 26820), (65, 26835), (79, 26919), (84, 26940), (85, 26946), (87, 26958), (93, 26991), (94, 26994), (97, 27015),

Gene: Sabia_37 Start: 27085, Stop: 27624, Start Num: 21

Candidate Starts for Sabia_37:

(19, 27079), (Start: 21 @27085 has 9 MA's), (Start: 44 @27193 has 273 MA's), (57, 27262), (65, 27331), (66, 27334), (75, 27382), (85, 27445), (87, 27457), (93, 27490), (94, 27493), (103, 27544), (104, 27547), (114, 27586),

Gene: Scamp_34 Start: 26712, Stop: 27137, Start Num: 44

Candidate Starts for Scamp_34:

(32, 26631), (Start: 44 @26712 has 273 MA's), (Start: 47 @26718 has 2 MA's), (Start: 52 @26736 has 1 MA's), (57, 26769), (59, 26781), (63, 26823), (65, 26838), (79, 26922), (84, 26943), (85, 26949), (87, 26961), (93, 26994), (94, 26997), (97, 27018),

Gene: Scorpia_33 Start: 25624, Stop: 26052, Start Num: 43

Candidate Starts for Scorpia_33:

(Start: 43 @25624 has 40 MA's), (59, 25693), (60, 25708), (63, 25735), (65, 25756), (81, 25849), (84, 25864), (87, 25882), (92, 25909), (93, 25915), (94, 25918), (102, 25963), (104, 25972), (111, 26008),

Gene: Scout_34 Start: 26015, Stop: 26440, Start Num: 44

Candidate Starts for Scout_34:

(19, 25901), (Start: 21 @25907 has 9 MA's), (Start: 40 @26000 has 3 MA's), (Start: 44 @26015 has 273 MA's), (65, 26153), (83, 26258), (84, 26261), (85, 26267), (87, 26279), (93, 26312), (94, 26315), (104, 26369), (114, 26402),

Gene: SemperFi_36 Start: 27032, Stop: 27466, Start Num: 46

Candidate Starts for SemperFi_36:

(28, 26936), (Start: 46 @27032 has 58 MA's), (65, 27167), (74, 27209), (83, 27272), (85, 27281), (87, 27293), (93, 27326),

Gene: Serenity_36 Start: 26135, Stop: 26563, Start Num: 44

Candidate Starts for Serenity_36:

(Start: 44 @26135 has 273 MA's), (57, 26204), (71, 26300), (73, 26306), (75, 26324), (79, 26360), (80, 26363), (87, 26399), (93, 26432), (94, 26435), (103, 26486), (104, 26489),

Gene: Severus_33 Start: 25545, Stop: 25979, Start Num: 44

Candidate Starts for Severus_33:

(Start: 44 @25545 has 273 MA's), (63, 25656), (65, 25671), (66, 25674), (68, 25683), (80, 25761), (85, 25785), (87, 25797), (93, 25830), (94, 25833),

Gene: Shaka_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Shaka_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: SheaKeira_36 Start: 26902, Stop: 27321, Start Num: 43

Candidate Starts for SheaKeira_36:

(41, 26890), (Start: 43 @26902 has 40 MA's), (Start: 52 @26926 has 1 MA's), (63, 27013), (65, 27034), (87, 27160), (93, 27193), (103, 27247), (104, 27250),

Gene: SheldonCooper_35 Start: 26998, Stop: 27414, Start Num: 51

Candidate Starts for SheldonCooper_35:

(Start: 44 @26968 has 273 MA's), (Start: 46 @26971 has 58 MA's), (48, 26977), (Start: 51 @26998 has 4 MA's), (60, 27064), (65, 27112), (66, 27115), (68, 27124), (74, 27154), (83, 27217), (84, 27220), (85, 27226), (93, 27271), (118, 27382),

Gene: Shuman_30 Start: 24199, Stop: 24675, Start Num: 44

Candidate Starts for Shuman_30:

(Start: 44 @24199 has 273 MA's), (49, 24214), (65, 24352), (66, 24355), (69, 24367), (71, 24379), (78, 24442), (80, 24448), (87, 24484), (100, 24559), (103, 24580), (104, 24583), (109, 24616),

Gene: Shygu2_34 Start: 26704, Stop: 27129, Start Num: 44

Candidate Starts for Shygu2_34:

(10, 26557), (18, 26581), (32, 26623), (Start: 44 @26704 has 273 MA's), (Start: 47 @26710 has 2 MA's), (Start: 52 @26728 has 1 MA's), (57, 26761), (59, 26773), (63, 26815), (65, 26830), (79, 26914), (84, 26935), (85, 26941), (87, 26953), (93, 26986), (94, 26989), (97, 27010),

Gene: Skipitt_34 Start: 26707, Stop: 27132, Start Num: 44

Candidate Starts for Skipitt_34:

(32, 26626), (Start: 39 @26686 has 8 MA's), (Start: 44 @26707 has 273 MA's), (Start: 47 @26713 has 2 MA's), (Start: 52 @26731 has 1 MA's), (57, 26764), (59, 26776), (63, 26818), (65, 26833), (79, 26917), (84, 26938), (85, 26944), (87, 26956), (93, 26989), (94, 26992), (97, 27013),

Gene: Smeadley_31 Start: 25158, Stop: 25580, Start Num: 44

Candidate Starts for Smeadley_31:

(11, 25020), (24, 25059), (25, 25062), (Start: 44 @25158 has 273 MA's), (57, 25215), (63, 25269), (65, 25290), (68, 25302), (71, 25317), (73, 25323), (79, 25377), (80, 25380), (83, 25395), (86, 25407), (87, 25416), (92, 25443), (93, 25449), (94, 25452), (104, 25506), (105, 25509), (108, 25530),

Gene: Smeagan_37 Start: 27276, Stop: 27716, Start Num: 46

Candidate Starts for Smeagan_37:

(Start: 46 @27276 has 58 MA's), (Start: 51 @27303 has 4 MA's), (62, 27384), (63, 27396), (65, 27417), (74, 27459), (75, 27468), (81, 27510), (83, 27522), (84, 27525), (85, 27531), (87, 27543), (92, 27570), (93, 27576),

Gene: SnapTap_35 Start: 26840, Stop: 27277, Start Num: 44

Candidate Starts for SnapTap_35:

(19, 26729), (Start: 29 @26753 has 1 MA's), (Start: 44 @26840 has 273 MA's), (57, 26909), (63, 26963), (65, 26978), (74, 27020), (75, 27029), (83, 27083), (85, 27092), (87, 27104), (93, 27137),

Gene: Snickers_37 Start: 27173, Stop: 27604, Start Num: 44

Candidate Starts for Snickers_37:

(19, 27059), (Start: 21 @27065 has 9 MA's), (Start: 44 @27173 has 273 MA's), (57, 27242), (65, 27311), (66, 27314), (75, 27362), (85, 27425), (87, 27437), (93, 27470), (94, 27473), (103, 27524), (104, 27527), (114, 27566),

Gene: SoYo_37 Start: 27111, Stop: 27542, Start Num: 44

Candidate Starts for SoYo_37:

(19, 26997), (Start: 21 @27003 has 9 MA's), (Start: 44 @27111 has 273 MA's), (57, 27180), (65, 27249), (66, 27252), (75, 27300), (85, 27363), (87, 27375), (93, 27408), (94, 27411), (103, 27462), (104, 27465), (114, 27504),

Gene: SoilDragon_36 Start: 26645, Stop: 27076, Start Num: 44

Candidate Starts for SoilDragon_36:

(Start: 44 @26645 has 273 MA's), (65, 26783), (66, 26786), (75, 26834), (85, 26897), (87, 26909), (93, 26942), (94, 26945), (103, 26996), (104, 26999), (114, 27038),

Gene: SororFago_39 Start: 28712, Stop: 29131, Start Num: 44

Candidate Starts for SororFago_39:

(Start: 44 @28712 has 273 MA's), (Start: 50 @28730 has 2 MA's), (56, 28760), (63, 28823), (65, 28838), (83, 28943), (84, 28946), (85, 28952), (87, 28964), (93, 28997), (94, 29000), (103, 29051), (104, 29054), (114, 29093),

Gene: Soshari_39 Start: 27392, Stop: 27829, Start Num: 42

Candidate Starts for Soshari_39:

(31, 27314), (Start: 42 @27392 has 2 MA's), (Start: 45 @27398 has 11 MA's), (Start: 52 @27422 has 1 MA's), (63, 27509), (65, 27530), (66, 27533), (71, 27557), (79, 27617), (81, 27623), (84, 27638), (85, 27644), (91, 27686), (93, 27695), (94, 27698), (103, 27749), (104, 27752), (114, 27791),

Gene: Sparxx_34 Start: 26633, Stop: 27076, Start Num: 46

Candidate Starts for Sparxx_34:

(Start: 44 @26630 has 273 MA's), (Start: 46 @26633 has 58 MA's), (48, 26639), (Start: 51 @26660 has 4 MA's), (60, 26726), (65, 26774), (66, 26777), (68, 26786), (74, 26816), (83, 26879), (85, 26888), (93, 26933),

Gene: Spike509_37 Start: 27399, Stop: 27830, Start Num: 45

Candidate Starts for Spike509_37:

(31, 27315), (Start: 42 @27393 has 2 MA's), (Start: 45 @27399 has 11 MA's), (Start: 52 @27423 has 1 MA's), (63, 27510), (65, 27531), (66, 27534), (71, 27558), (79, 27618), (81, 27624), (84, 27639), (85, 27645), (91, 27687), (93, 27696), (94, 27699), (103, 27750), (104, 27753), (114, 27792),

Gene: Spino_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Spino_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: StCroix_30 Start: 24199, Stop: 24675, Start Num: 44

Candidate Starts for StCroix_30:

(Start: 44 @24199 has 273 MA's), (49, 24214), (65, 24352), (66, 24355), (69, 24367), (71, 24379), (78, 24442), (80, 24448), (87, 24484), (100, 24559), (103, 24580), (104, 24583), (109, 24616),

Gene: Stagni_37 Start: 27202, Stop: 27633, Start Num: 44

Candidate Starts for Stagni_37:

(19, 27088), (Start: 21 @27094 has 9 MA's), (Start: 44 @27202 has 273 MA's), (57, 27271), (65, 27340), (66, 27343), (75, 27391), (85, 27454), (87, 27466), (93, 27499), (94, 27502), (103, 27553), (104, 27556), (114, 27595),

Gene: StarStuff_38 Start: 26868, Stop: 27305, Start Num: 44

Candidate Starts for StarStuff_38:

(Start: 44 @26868 has 273 MA's), (Start: 46 @26871 has 58 MA's), (63, 26991), (65, 27006), (74, 27048), (75, 27057), (83, 27111), (84, 27114), (87, 27132), (93, 27165), (94, 27168),

Gene: Stasia_35 Start: 27151, Stop: 27576, Start Num: 44

Candidate Starts for Stasia_35:

(Start: 44 @27151 has 273 MA's), (Start: 47 @27157 has 2 MA's), (Start: 52 @27175 has 1 MA's), (57, 27208), (63, 27262), (65, 27277), (79, 27361), (84, 27382), (85, 27388), (87, 27400), (93, 27433), (94, 27436), (102, 27481),

Gene: StepMih_37 Start: 27193, Stop: 27624, Start Num: 44

Candidate Starts for StepMih_37:

(19, 27079), (Start: 21 @27085 has 9 MA's), (Start: 44 @27193 has 273 MA's), (57, 27262), (65, 27331), (66, 27334), (75, 27382), (85, 27445), (87, 27457), (93, 27490), (94, 27493), (103, 27544), (104, 27547), (114, 27586),

Gene: Stephig9_31 Start: 25141, Stop: 25581, Start Num: 44

Candidate Starts for Stephig9_31:

(Start: 44 @25141 has 273 MA's), (Start: 54 @25192 has 2 MA's), (59, 25219), (63, 25261), (65, 25282), (69, 25297), (72, 25312), (73, 25315), (76, 25339), (81, 25375), (85, 25396), (87, 25408), (88, 25423), (89, 25426), (92, 25444), (101, 25489), (104, 25507), (105, 25510), (112, 25552),

Gene: Stink_35 Start: 27373, Stop: 27801, Start Num: 44

Candidate Starts for Stink_35:

(Start: 44 @27373 has 273 MA's), (Start: 50 @27391 has 2 MA's), (59, 27442), (63, 27484), (65, 27499), (67, 27508), (68, 27511), (84, 27607), (85, 27613), (87, 27625), (93, 27658), (100, 27691), (118, 27769),

Gene: Superchunk_34 Start: 25405, Stop: 25860, Start Num: 44

Candidate Starts for Superchunk_34:

(Start: 44 @25405 has 273 MA's), (57, 25474), (59, 25486), (63, 25528), (65, 25543), (66, 25546), (67, 25552), (68, 25555), (75, 25594), (87, 25669), (93, 25702), (94, 25705), (103, 25756), (104, 25759),

Gene: Swann_30 Start: 24186, Stop: 24662, Start Num: 44

Candidate Starts for Swann_30:

(Start: 44 @24186 has 273 MA's), (65, 24339), (66, 24342), (69, 24354), (71, 24366), (78, 24429), (80, 24435), (87, 24471), (100, 24546), (103, 24567), (104, 24570), (109, 24603),

Gene: SweetiePie_35 Start: 26840, Stop: 27277, Start Num: 44

Candidate Starts for SweetiePie_35:

(19, 26729), (Start: 29 @26753 has 1 MA's), (Start: 44 @26840 has 273 MA's), (57, 26909), (65, 26978), (74, 27020), (75, 27029), (83, 27083), (85, 27092), (87, 27104), (93, 27137),

Gene: SwirlSquare_36 Start: 25429, Stop: 25884, Start Num: 44

Candidate Starts for SwirlSquare_36:

(Start: 44 @25429 has 273 MA's), (61, 25534), (63, 25552), (65, 25567), (66, 25570), (67, 25576), (68, 25579), (75, 25618), (82, 25663), (85, 25681), (87, 25693), (93, 25726), (103, 25780), (104, 25783), (106, 25789),

Gene: Swirley_31 Start: 25920, Stop: 26345, Start Num: 43

Candidate Starts for Swirley_31:

(Start: 43 @25920 has 40 MA's), (57, 25977), (65, 26052), (75, 26103), (84, 26160), (87, 26178), (92, 26205), (93, 26211), (94, 26214), (103, 26265), (104, 26268), (114, 26307),

Gene: SydNat_31 Start: 26202, Stop: 26624, Start Num: 43

Candidate Starts for SydNat_31:

(Start: 43 @26202 has 40 MA's), (Start: 54 @26244 has 2 MA's), (57, 26259), (65, 26334), (75, 26385), (84, 26442), (92, 26487), (93, 26493), (94, 26496), (102, 26541), (104, 26550),

Gene: TNguyen7_34 Start: 26666, Stop: 27097, Start Num: 44

Candidate Starts for TNguyen7_34:

(8, 26516), (13, 26528), (26, 26567), (Start: 44 @26666 has 273 MA's), (48, 26675), (64, 26792), (65, 26810), (68, 26822), (74, 26852), (75, 26861), (83, 26915), (85, 26924), (87, 26936), (93, 26969), (104, 27026), (114, 27059),

Gene: TWAMP_30 Start: 24186, Stop: 24662, Start Num: 44

Candidate Starts for TWAMP_30:

(Start: 44 @24186 has 273 MA's), (49, 24201), (65, 24339), (66, 24342), (69, 24354), (71, 24366), (78, 24429), (80, 24435), (87, 24471), (100, 24546), (103, 24567), (104, 24570), (109, 24603),

Gene: Takoda_30 Start: 24159, Stop: 24635, Start Num: 44

Candidate Starts for Takoda_30:

(Start: 44 @24159 has 273 MA's), (65, 24312), (66, 24315), (69, 24327), (71, 24339), (78, 24402), (79, 24405), (80, 24408), (87, 24444), (100, 24519), (102, 24534), (103, 24540), (104, 24543),

Gene: Taquarus_34 Start: 26713, Stop: 27138, Start Num: 44

Candidate Starts for Taquarus_34:

(32, 26632), (Start: 39 @26692 has 8 MA's), (Start: 44 @26713 has 273 MA's), (Start: 47 @26719 has 2 MA's), (Start: 52 @26737 has 1 MA's), (57, 26770), (59, 26782), (63, 26824), (65, 26839), (79, 26923), (84, 26944), (85, 26950), (87, 26962), (93, 26995), (94, 26998), (97, 27019),

Gene: TarsusIV_34 Start: 26809, Stop: 27252, Start Num: 44

Candidate Starts for TarsusIV_34:

(Start: 44 @26809 has 273 MA's), (63, 26932), (65, 26953), (74, 26995), (83, 27058), (84, 27061), (87, 27079), (92, 27106), (93, 27112), (102, 27160),

Gene: Tarynearal_30 Start: 25942, Stop: 26370, Start Num: 43

Candidate Starts for Tarynearal_30:

(Start: 43 @25942 has 40 MA's), (57, 25999), (65, 26074), (75, 26125), (84, 26182), (87, 26200), (92, 26227), (93, 26233), (94, 26236), (102, 26281), (104, 26290), (111, 26326),

Gene: Thanksgivukkah_34 Start: 26711, Stop: 27136, Start Num: 44

Candidate Starts for Thanksgivukkah_34:

(32, 26630), (Start: 39 @26690 has 8 MA's), (Start: 44 @26711 has 273 MA's), (Start: 47 @26717 has 2 MA's), (Start: 52 @26735 has 1 MA's), (57, 26768), (59, 26780), (63, 26822), (65, 26837), (79, 26921), (84, 26942), (85, 26948), (87, 26960), (93, 26993), (94, 26996), (97, 27017),

Gene: Theia_29 Start: 25966, Stop: 26394, Start Num: 43

Candidate Starts for Theia_29:

(Start: 43 @25966 has 40 MA's), (65, 26098), (75, 26149), (84, 26206), (87, 26224), (92, 26251), (93, 26257), (94, 26260), (102, 26305), (104, 26314), (111, 26350),

Gene: Tiffany_37 Start: 26977, Stop: 27516, Start Num: 21

Candidate Starts for Tiffany_37:

(19, 26971), (Start: 21 @26977 has 9 MA's), (Start: 44 @27085 has 273 MA's), (57, 27154), (65, 27223), (66, 27226), (75, 27274), (85, 27337), (87, 27349), (93, 27382), (94, 27385), (103, 27436), (104, 27439), (114, 27478),

Gene: Tiger_31 Start: 25844, Stop: 26263, Start Num: 43

Candidate Starts for Tiger_31:

(Start: 43 @25844 has 40 MA's), (57, 25901), (65, 25976), (84, 26084), (87, 26102), (92, 26129), (93, 26135), (94, 26138), (102, 26183), (104, 26192),

Gene: TinaFeyge_34 Start: 26627, Stop: 27073, Start Num: 44

Candidate Starts for TinaFeyge_34:

(Start: 44 @26627 has 273 MA's), (Start: 46 @26630 has 58 MA's), (48, 26636), (Start: 51 @26657 has 4 MA's), (60, 26723), (65, 26771), (66, 26774), (68, 26783), (74, 26813), (83, 26876), (85, 26885), (93, 26930),

Gene: Tinybot_33 Start: 26758, Stop: 27186, Start Num: 44

Candidate Starts for Tinybot_33:

(Start: 44 @26758 has 273 MA's), (Start: 50 @26776 has 2 MA's), (Start: 54 @26800 has 2 MA's), (63, 26869), (65, 26884), (68, 26896), (80, 26974), (83, 26989), (85, 26998), (87, 27010), (92, 27037), (93, 27043),

Gene: TopsytheTRex_34 Start: 26358, Stop: 26789, Start Num: 44

Candidate Starts for TopsytheTRex_34:

(Start: 44 @26358 has 273 MA's), (57, 26427), (68, 26508), (71, 26523), (79, 26583), (80, 26586), (86, 26613), (87, 26622), (93, 26655), (94, 26658), (103, 26709), (104, 26712), (106, 26718), (107, 26733),

Gene: TiroTheta9_34 Start: 26713, Stop: 27132, Start Num: 47

Candidate Starts for TiroTheta9_34:

(32, 26626), (Start: 39 @26686 has 8 MA's), (Start: 44 @26707 has 273 MA's), (Start: 47 @26713 has 2 MA's), (Start: 52 @26731 has 1 MA's), (57, 26764), (59, 26776), (63, 26818), (65, 26833), (79, 26917), (84, 26938), (85, 26944), (87, 26956), (93, 26989), (94, 26992), (97, 27013),

Gene: Tomathan_38 Start: 26865, Stop: 27302, Start Num: 44

Candidate Starts for Tomathan_38:

(Start: 44 @26865 has 273 MA's), (Start: 46 @26868 has 58 MA's), (63, 26988), (65, 27003), (74, 27045), (75, 27054), (83, 27108), (84, 27111), (87, 27129), (93, 27162), (94, 27165),

Gene: Topanga_35 Start: 26950, Stop: 27381, Start Num: 44

Candidate Starts for Topanga_35:

(35, 26914), (Start: 44 @26950 has 273 MA's), (Start: 46 @26953 has 58 MA's), (63, 27061), (65, 27076), (68, 27088), (84, 27181), (85, 27187), (87, 27199), (93, 27232), (102, 27280),

Gene: Trike_32 Start: 25378, Stop: 25812, Start Num: 44

Candidate Starts for Trike_32:

(Start: 44 @25378 has 273 MA's), (56, 25426), (59, 25447), (65, 25504), (68, 25516), (80, 25594), (84, 25612), (85, 25618), (87, 25630), (93, 25663),

Gene: Trixie_36 Start: 27768, Stop: 28199, Start Num: 44

Candidate Starts for Trixie_36:

(Start: 44 @27768 has 273 MA's), (57, 27837), (65, 27906), (74, 27948), (75, 27957), (84, 28014), (85, 28020), (87, 28032), (93, 28065), (94, 28068), (114, 28161), (120, 28176),

Gene: Trooper_36 Start: 27049, Stop: 27486, Start Num: 44

Candidate Starts for Trooper_36:

(19, 26938), (Start: 29 @26962 has 1 MA's), (Start: 44 @27049 has 273 MA's), (63, 27172), (65, 27187), (74, 27229), (75, 27238), (83, 27292), (84, 27295), (85, 27301), (87, 27313), (93, 27346),

Gene: TroyPia_34 Start: 26633, Stop: 27076, Start Num: 46

Candidate Starts for TroyPia_34:

(Start: 44 @26630 has 273 MA's), (Start: 46 @26633 has 58 MA's), (48, 26639), (Start: 51 @26660 has 4 MA's), (60, 26726), (65, 26774), (66, 26777), (68, 26786), (74, 26816), (83, 26879), (85, 26888), (93, 26933),

Gene: Turbido_35 Start: 27025, Stop: 27465, Start Num: 46

Candidate Starts for Turbido_35:

(Start: 46 @27025 has 58 MA's), (Start: 51 @27052 has 4 MA's), (62, 27133), (63, 27145), (65, 27166), (74, 27208), (75, 27217), (83, 27271), (84, 27274), (85, 27280), (87, 27292), (92, 27319), (93, 27325),

Gene: Twister_35 Start: 26858, Stop: 27289, Start Num: 44

Candidate Starts for Twister_35:

(35, 26822), (Start: 44 @26858 has 273 MA's), (Start: 46 @26861 has 58 MA's), (63, 26969), (65, 26984), (68, 26996), (84, 27089), (85, 27095), (87, 27107), (93, 27140), (94, 27143),

Gene: TygerBlood_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for TygerBlood_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: UhSalsa_30 Start: 24187, Stop: 24663, Start Num: 44

Candidate Starts for UhSalsa_30:

(Start: 44 @24187 has 273 MA's), (65, 24340), (66, 24343), (69, 24355), (71, 24367), (78, 24430), (80, 24436), (87, 24472), (100, 24547), (103, 24568), (104, 24571), (109, 24604),

Gene: Ulysses_33 Start: 26492, Stop: 26920, Start Num: 44

Candidate Starts for Ulysses_33:

(Start: 37 @26450 has 1 MA's), (Start: 44 @26492 has 273 MA's), (Start: 50 @26510 has 2 MA's), (Start: 54 @26534 has 2 MA's), (63, 26603), (65, 26618), (67, 26627), (68, 26630), (71, 26645), (80, 26708), (84, 26726), (85, 26732), (87, 26744), (90, 26768), (92, 26771), (93, 26777),

Gene: UnionJack_32 Start: 25288, Stop: 25707, Start Num: 43

Candidate Starts for UnionJack_32:

(Start: 43 @25288 has 40 MA's), (60, 25372), (61, 25381), (63, 25399), (65, 25420), (81, 25513), (84, 25528), (87, 25546), (92, 25573), (93, 25579), (94, 25582), (102, 25627), (104, 25636),

Gene: Updawg_36 Start: 27224, Stop: 27658, Start Num: 46

Candidate Starts for Updawg_36:

(34, 27158), (Start: 46 @27224 has 58 MA's), (Start: 54 @27275 has 2 MA's), (63, 27344), (65, 27359), (69, 27374), (74, 27401), (75, 27410), (83, 27464), (93, 27518), (94, 27521),

Gene: VA6_34 Start: 26805, Stop: 27239, Start Num: 46

Candidate Starts for VA6_34:

(Start: 44 @26802 has 273 MA's), (Start: 46 @26805 has 58 MA's), (63, 26925), (65, 26940), (74, 26982), (75, 26991), (84, 27048), (87, 27066), (93, 27099), (94, 27102),

Gene: VC3_37 Start: 26793, Stop: 27227, Start Num: 46

Candidate Starts for VC3_37:

(Start: 44 @26790 has 273 MA's), (Start: 46 @26793 has 58 MA's), (63, 26913), (65, 26928), (74, 26970), (75, 26979), (84, 27036), (87, 27054), (93, 27087), (94, 27090),

Gene: Vix_37 Start: 27174, Stop: 27713, Start Num: 21

Candidate Starts for Vix_37:

(19, 27168), (Start: 21 @27174 has 9 MA's), (Start: 44 @27282 has 273 MA's), (57, 27351), (65, 27420), (66, 27423), (75, 27471), (85, 27534), (87, 27546), (93, 27579), (94, 27582), (103, 27633), (104, 27636), (114, 27675),

Gene: WalterMcMickey_35 Start: 26858, Stop: 27289, Start Num: 44

Candidate Starts for WalterMcMickey_35:

(35, 26822), (Start: 44 @26858 has 273 MA's), (Start: 46 @26861 has 58 MA's), (63, 26969), (65, 26984), (68, 26996), (84, 27089), (85, 27095), (87, 27107), (93, 27140), (94, 27143),

Gene: Wander_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Wander_34:

(32, 26629), (Start: 39 @26689 has 8 MA's), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Watson_37 Start: 27192, Stop: 27623, Start Num: 44

Candidate Starts for Watson_37:

(19, 27078), (Start: 21 @27084 has 9 MA's), (Start: 44 @27192 has 273 MA's), (57, 27261), (65, 27330), (66, 27333), (75, 27381), (85, 27444), (87, 27456), (93, 27489), (94, 27492), (103, 27543), (104, 27546), (114, 27585),

Gene: WeiHuaDA_40 Start: 28460, Stop: 28894, Start Num: 46

Candidate Starts for WeiHuaDA_40:

(28, 28364), (34, 28394), (Start: 46 @28460 has 58 MA's), (60, 28553), (65, 28595), (74, 28637), (75, 28646), (83, 28700), (87, 28721),

Gene: Whabigail7_35 Start: 27013, Stop: 27453, Start Num: 46

Candidate Starts for Whabigail7_35:

(Start: 46 @27013 has 58 MA's), (Start: 51 @27040 has 4 MA's), (62, 27121), (63, 27133), (65, 27154), (74, 27196), (75, 27205), (83, 27259), (84, 27262), (85, 27268), (87, 27280), (92, 27307), (93, 27313),

Gene: WideWale_36 Start: 27224, Stop: 27658, Start Num: 46

Candidate Starts for WideWale_36:

(34, 27158), (Start: 46 @27224 has 58 MA's), (Start: 54 @27275 has 2 MA's), (63, 27344), (65, 27359), (69, 27374), (74, 27401), (75, 27410), (83, 27464), (93, 27518), (94, 27521),

Gene: Wilbur_34 Start: 26710, Stop: 27135, Start Num: 44

Candidate Starts for Wilbur_34:

(10, 26563), (11, 26566), (18, 26587), (32, 26629), (Start: 44 @26710 has 273 MA's), (Start: 47 @26716 has 2 MA's), (Start: 52 @26734 has 1 MA's), (57, 26767), (59, 26779), (63, 26821), (65, 26836), (79, 26920), (84, 26941), (85, 26947), (87, 26959), (93, 26992), (94, 26995), (97, 27016),

Gene: Wile_34 Start: 26774, Stop: 27199, Start Num: 44

Candidate Starts for Wile_34:

(Start: 44 @26774 has 273 MA's), (57, 26831), (59, 26843), (63, 26885), (65, 26900), (66, 26903), (67, 26909), (79, 26984), (84, 27005), (87, 27023), (93, 27056), (94, 27059), (97, 27080),

Gene: Wizard007_34 Start: 26715, Stop: 27140, Start Num: 44

Candidate Starts for Wizard007_34:

(32, 26634), (Start: 39 @26694 has 8 MA's), (Start: 44 @26715 has 273 MA's), (Start: 47 @26721 has 2 MA's), (Start: 52 @26739 has 1 MA's), (57, 26772), (59, 26784), (63, 26826), (65, 26841), (79, 26925), (84, 26946), (85, 26952), (87, 26964), (93, 26997), (94, 27000), (97, 27021),

Gene: Wooldri_39 Start: 27111, Stop: 27542, Start Num: 44

Candidate Starts for Wooldri_39:

(19, 26997), (Start: 21 @27003 has 9 MA's), (Start: 44 @27111 has 273 MA's), (57, 27180), (65, 27249), (66, 27252), (75, 27300), (85, 27363), (87, 27375), (93, 27408), (94, 27411), (103, 27462), (104, 27465), (114, 27504),

Gene: Xena_34 Start: 26761, Stop: 27186, Start Num: 44

Candidate Starts for Xena_34:

(Start: 44 @26761 has 273 MA's), (57, 26818), (59, 26830), (63, 26872), (65, 26887), (66, 26890), (67, 26896), (79, 26971), (84, 26992), (87, 27010), (93, 27043), (94, 27046), (97, 27067),

Gene: XianYue_36 Start: 27052, Stop: 27486, Start Num: 46

Candidate Starts for XianYue_36:

(20, 26938), (Start: 46 @27052 has 58 MA's), (60, 27145), (65, 27187), (74, 27229), (75, 27238), (82, 27283), (83, 27292), (85, 27301), (87, 27313), (93, 27346), (94, 27349), (102, 27394),

Gene: Yecey3_36 Start: 26718, Stop: 27143, Start Num: 44

Candidate Starts for Yecey3_36:

(5, 26529), (Start: 44 @26718 has 273 MA's), (65, 26862), (85, 26970), (87, 26982), (93, 27015), (103, 27069),

Gene: YoSam321_34 Start: 26707, Stop: 27132, Start Num: 44

Candidate Starts for YoSam321_34:

(32, 26626), (Start: 39 @26686 has 8 MA's), (Start: 44 @26707 has 273 MA's), (Start: 47 @26713 has 2 MA's), (Start: 52 @26731 has 1 MA's), (57, 26764), (59, 26776), (63, 26818), (65, 26833), (79, 26917), (84, 26938), (85, 26944), (87, 26956), (93, 26989), (94, 26992), (97, 27013),

Gene: Yogi_30 Start: 24160, Stop: 24636, Start Num: 44

Candidate Starts for Yogi_30:

(Start: 44 @24160 has 273 MA's), (65, 24313), (66, 24316), (69, 24328), (71, 24340), (78, 24403), (80, 24409), (87, 24445), (100, 24520), (103, 24541), (104, 24544), (109, 24577),

Gene: Yoncess_30 Start: 24161, Stop: 24637, Start Num: 44

Candidate Starts for Yoncess_30:

(Start: 44 @24161 has 273 MA's), (65, 24314), (66, 24317), (69, 24329), (71, 24341), (78, 24404), (80, 24410), (87, 24446), (100, 24521), (103, 24542), (104, 24545),

Gene: Zetzy_36 Start: 26667, Stop: 27194, Start Num: 29

Candidate Starts for Zetzy_36:

(19, 26643), (Start: 21 @26649 has 9 MA's), (Start: 29 @26667 has 1 MA's), (Start: 44 @26757 has 273 MA's), (Start: 46 @26760 has 58 MA's), (65, 26901), (74, 26943), (75, 26952), (85, 27015), (87, 27027), (93, 27060), (94, 27063), (103, 27114), (104, 27117), (114, 27156),

Gene: Zimmer_36 Start: 28554, Stop: 28985, Start Num: 44

Candidate Starts for Zimmer_36:

(Start: 44 @28554 has 273 MA's), (Start: 54 @28608 has 2 MA's), (63, 28677), (65, 28698), (73, 28731), (83, 28797), (85, 28806), (87, 28818), (90, 28842), (93, 28851), (96, 28866), (100, 28884), (103, 28905), (120, 28962),

Gene: Zolita_30 Start: 26206, Stop: 26628, Start Num: 43

Candidate Starts for Zolita_30:

(Start: 43 @26206 has 40 MA's), (Start: 54 @26248 has 2 MA's), (57, 26263), (65, 26338), (75, 26389), (84, 26446), (92, 26491), (93, 26497), (94, 26500), (102, 26545), (104, 26554),