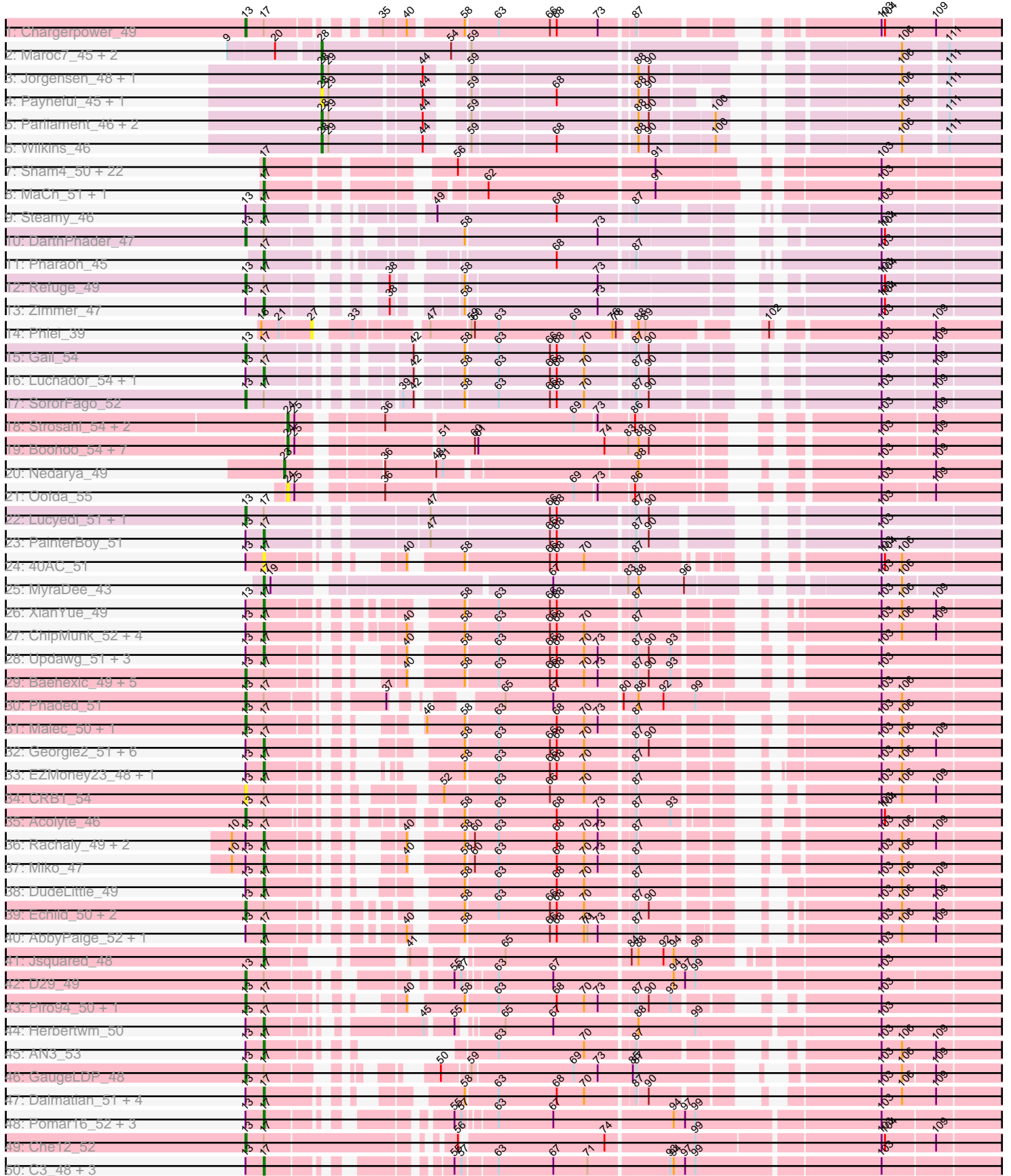
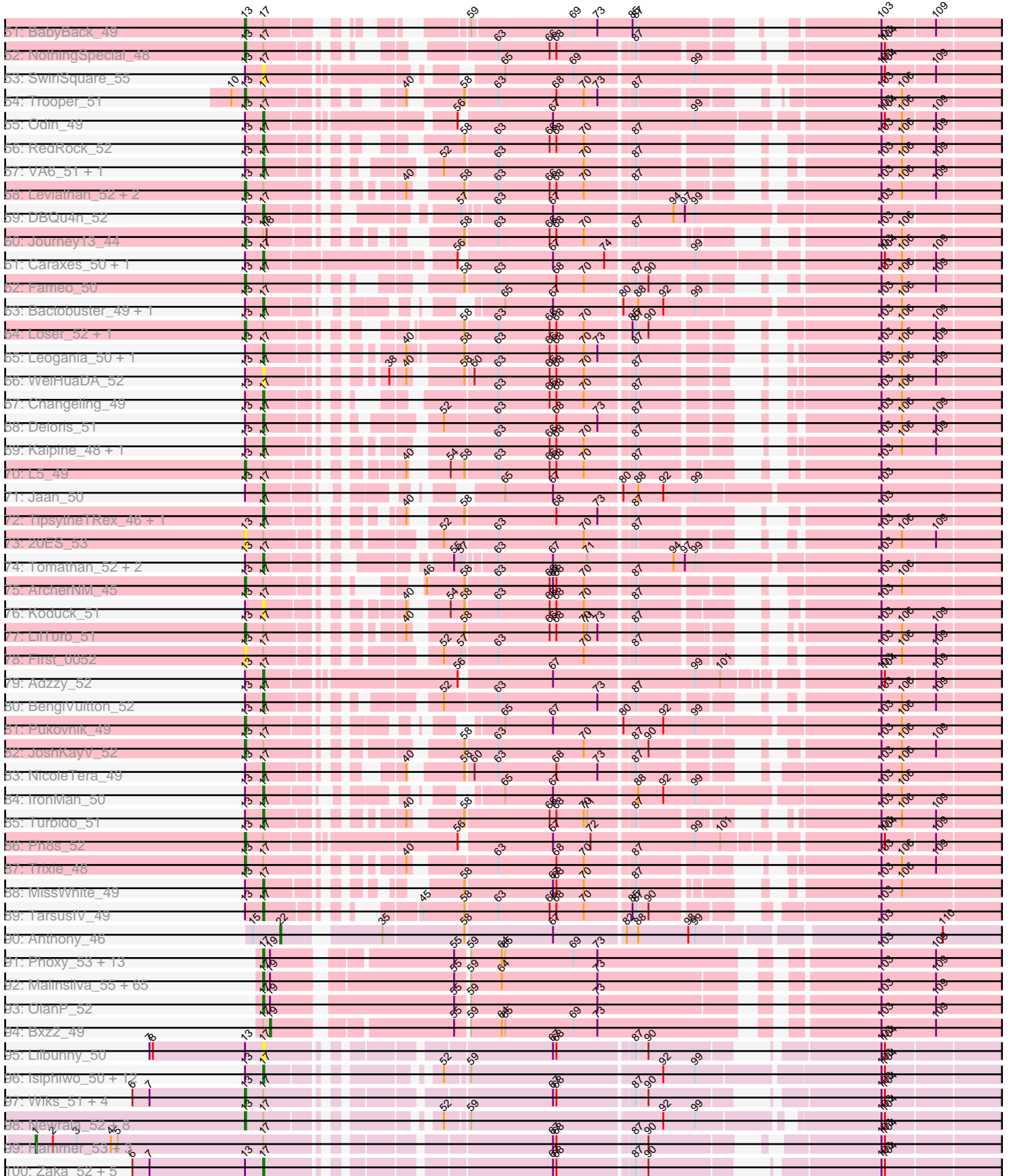


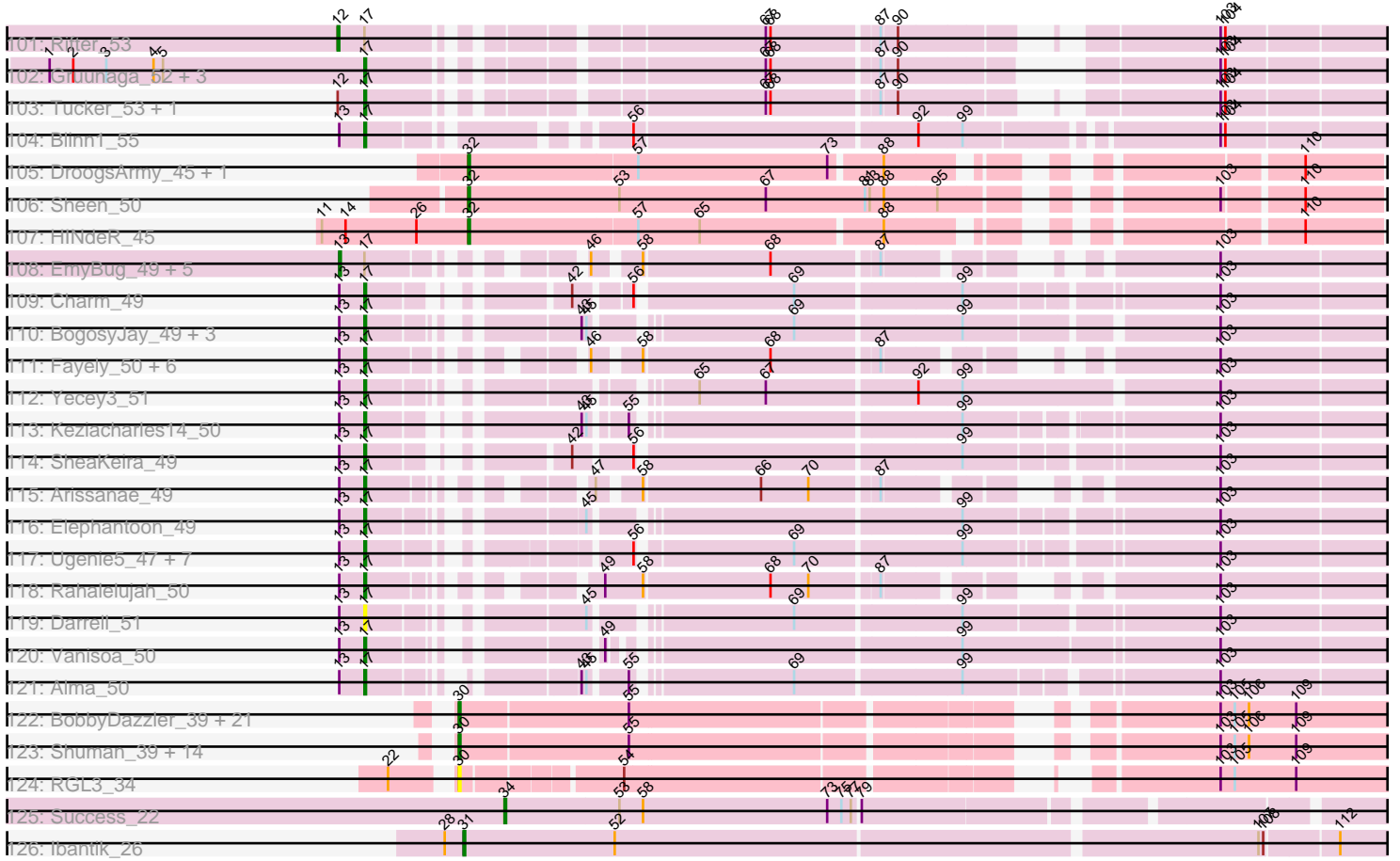
Pham 171124



Pham 171124



Pham 171124



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 171124 Report

This analysis was run 07/09/24 on database version 566.

Pham number 171124 has 384 members, 30 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_49
- Track 2 : Maroc7_45, Fascinus_43, Gyzlar_43
- Track 3 : Jorgensen_48, Norz_47
- Track 4 : Payneful_45, Marchy_40
- Track 5 : Parliament_46, Topgun_46, Teodoridan_45
- Track 6 : Wilkins_46
- Track 7 : Sham4_50, Orange_50, Gilberta_51, Snape_50, Mabel_50, TinyTimmy_49, Jabith_51, Et2Brutus_49, Flaverint_51, Fibonacci_50, Bud_50, Mulciber_50, Insomnia_51, Petersenfast_49, Bowtie_51, Timothy_50, Joselito_51, Hutc2_50, Ebony_50, Munch_51, Salz_49, Aneem_51, Lucivia_51
- Track 8 : MaCh_51, Bachome_52
- Track 9 : Steamy_46
- Track 10 : DARTHPhader_47
- Track 11 : Pharaoh_45
- Track 12 : Refuge_49
- Track 13 : Zimmer_47
- Track 14 : Phlei_39
- Track 15 : Gail_54
- Track 16 : Luchador_54, Jeeves_54
- Track 17 : SororFago_52
- Track 18 : Strosahl_54, Waits_54, Remus_54
- Track 19 : Boohoo_54, JSwag_53, Nebulosus_53, Looper_54, ReMo_53, LastResort_53, Epsocamisio_52, Anaysia_54
- Track 20 : Nedarya_49
- Track 21 : Oofda_55
- Track 22 : Lucyedi_51, EagleEye_52
- Track 23 : PainterBoy_51
- Track 24 : 40AC_51
- Track 25 : MyraDee_43
- Track 26 : XianYue_49
- Track 27 : ChipMunk_52, Jerm_52, Smeagan_53, Dignity_52, KingCyrus_52
- Track 28 : Updawg_51, Buggy_52, Equemioh13_51, HarryHoudini_51
- Track 29 : Baehexic_49, NaSiaTalie_50, Flare16_50, MiculUcigas_50, WideWale_51, Centaur_51
- Track 30 : Phaded_51
- Track 31 : Malec_50, Larenn_49

- Track 32 : Georgie2_51, FiringLine_50, SweetiePie_50, Power_49, SnapTap_50, Crucio_50, QueenBeesly_50
- Track 33 : EZMoney23_48, Iwokeuplikedis_53
- Track 34 : CRB1_54
- Track 35 : Acolyte_46
- Track 36 : Rachaly_49, Lokk_47, BobSwaget_46
- Track 37 : Miko_47
- Track 38 : DudeLittle_49
- Track 39 : Echild_50, SemperFi_51, Benvolio_47
- Track 40 : AbbyPaige_52, Whabigail7_51
- Track 41 : Jsquared_48
- Track 42 : D29_49
- Track 43 : Piro94_50, Drake55_52
- Track 44 : Herbertwm_50
- Track 45 : AN3_53
- Track 46 : GaugeLDP_48
- Track 47 : Dalmatian_51, Heffalump_49, QueenB2_49, Anselm_51, Retro23_51
- Track 48 : Pomar16_52, Naji_52, D32_51, StarStuff_52
- Track 49 : Che12_52
- Track 50 : C3_48, VC3_53, AN9_53, ANI8_53
- Track 51 : BabyBack_49
- Track 52 : NothingSpecial_48
- Track 53 : SwirlSquare_55
- Track 54 : Trooper_51
- Track 55 : Odin_49
- Track 56 : RedRock_52
- Track 57 : VA6_51, LadyBird_55
- Track 58 : Leviathan_52, Agape74_52, EvilGenius_52
- Track 59 : DBQu4n_52
- Track 60 : Journey13_44
- Track 61 : Caraxes_50, Superchunk_49
- Track 62 : Fameo_50
- Track 63 : Bactobuster_49, Landor_50
- Track 64 : Loser_52, AnnaL29_52
- Track 65 : Leogania_50, BiancaTri92_50
- Track 66 : WeiHuaDA_52
- Track 67 : Changeling_49
- Track 68 : Deloris_51
- Track 69 : Kalpine_48, Colin_50
- Track 70 : L5_49
- Track 71 : Jaan_50
- Track 72 : TopsytheTRex_46, Serenity_50
- Track 73 : 20ES_53
- Track 74 : Tomathan_52, Kerberos_52, Duplo_52
- Track 75 : ArcherNM_45
- Track 76 : Koduck_51
- Track 77 : LilTurb_51
- Track 78 : First_0052
- Track 79 : Adzzy_52
- Track 80 : BengiVuitton_52
- Track 81 : Pukovnik_49
- Track 82 : JoshKayV_52
- Track 83 : NicoleTera_49

- Track 84 : IronMan_50
- Track 85 : Turbido_51
- Track 86 : Ph8s_52
- Track 87 : Trixie_48
- Track 88 : MissWhite_49
- Track 89 : TarsusIV_49
- Track 90 : Anthony_46
- Track 91 : Phoxy_53, Spike509_53, Methuselah_49, LarryKay_53, Daishi_52, KADY_53, HashRod_54, Misomonster_54, Farber_53, AgronaGT15_52, Rummer_52, BuzzBuzz_51, Louie6_52, Soshari_55
- Track 92 : Malinsilva_55, Hercules11_53, Wooldri_55, SoilDragon_53, Fernando_53, Sabia_53, Lilith_54, Watson_53, Snickers_53, Grub_53, Beauxregard13_53, Anubis_56, LugYA_56, BreSam8_53, PGHhamlin_55, PotatoSplit_55, Ollie_53, Zetzy_52, P28Green_54, Manu_53, Reba_53, Vix_53, SoYo_53, DaHudson_53, StepMih_53, MuchMore_56, MoneyMay_53, HaveUMetTed_54, Marie_53, MarQuardt_53, Sabinator_52, Kalnoky_54, Phoebe_54, Dieselweasel_54, Microwolf_53, Heliosoles_52, Taurus_54, JHC117_53, Penny1_54, Grif_53, Colbster_53, PurpleHaze_53, PhishRPhriends_51, EpicPhail_54, Kalb97_54, JeppNRM_54, Pembroke_53, Aglet_54, Jobu08_52, GingkoMaracino_53, Grum1_53, ACFishhook_52, Marius_54, Groupthink_54, LBerry_54, Pawn_53, AugsMagnumOpus_56, Gemma_52, GtownJaz_53, Phranny_54, Mainiac_53, Tiffany_53, MadMarie_53, Stagni_53, JenCasNa_54, Cullens_53
- Track 93 : OlanP_52
- Track 94 : Bxz2_49
- Track 95 : Lilbunny_50
- Track 96 : Isiphiwo_50, Dorothea_51, Chartreuse_51, DaVinci_51, BABullseye_46, SuperCallie99_51, McFly_52, Neeharika16_51, Kazan_53, Candra_52, VohminGhazi_52, EricB_52, Pmask_52
- Track 97 : Wiks_51, Jeffabunny_52, Indra_55, Zulu_53, Hexamo_52
- Track 98 : Newrala_52, Jordennis_52, SmellyB_52, Kipper29_52, JewelBug_53, Hoot_47, GreedyLawyer_52, Cookiedough_52, SuperAwesome_52
- Track 99 : Hammer_53, Blue7_54, Artemis2UCLA_52, Gladiator_50
- Track 100 : Zaka_52, Yokurt_52, WunderPhul_52, ToneTone_49, Helmet_54, Garak_54
- Track 101 : Rifter_53
- Track 102 : Gruunaga_52, Koko_53, Roksolana_53, CloudWang3_52
- Track 103 : Tucker_53, Priamo_54
- Track 104 : Blinn1_55
- Track 105 : DroogsArmy_45, Timshel_47
- Track 106 : Sheen_50
- Track 107 : HINdeR_45
- Track 108 : EmyBug_49, PackMan_49, Myxus_50, HortumSL17_50, Catalina_51, Aliter_50
- Track 109 : Charm_49
- Track 110 : BogosyJay_49, LoneWolf_51, Maminiaina_49, Toaka_50
- Track 111 : Fayely_50, Eidsmoe_50, Qobbit_50, Phaeder_50, Tubs_50, Spouty_48, Priya_50
- Track 112 : Yecey3_51
- Track 113 : Keziacharles14_50
- Track 114 : SheaKeira_49
- Track 115 : Arissanae_49
- Track 116 : Elephantoon_49

- Track 117 : Ugenie5_47, Conquerage_50, DreamTeam1_49, Phonnegut_50, Pioneer_50, ExplosioNervosa_50, Beemo_50, Scherzo_50
- Track 118 : Rahalelujah_50
- Track 119 : Darrell_51
- Track 120 : Vanisoa_50
- Track 121 : Alma_50
- Track 122 : BobbyDazzler_39, PhailMary_38, Bradshaw_39, Partridge_39, Lillie_39, Yogi_39, RexFury_39, Rhodalysa_39, Krishelle_39, Rasputin_39, Phrankenstein_39, Gollum_39, RER2_32, Swann_39, CosmicSans_39, Hiro_39, TWAMP_39, Alpacados_38, StCroix_39, Naiad_39, Bonanza_39, Alatin_39
- Track 123 : Shuman_39, AppleCloud_37, Bryce_39, Natosaleda_39, Erik_39, Nancinator_39, Jester_39, Espica_39, Belenaria_39, UhSalsa_39, Harlequin_39, Takoda_39, Yoncess_39, Dinger_39, AngryOrchard_37
- Track 124 : RGL3_34
- Track 125 : Success_22
- Track 126 : Ibantik_26

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

The start number called the most often in the published annotations is 17, it was called in 223 of the 354 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 40AC_51, ACFishhook_52, AN3_53, AN9_53, ANI8_53, AbbyPaige_52, Adzzy_52, Aglet_54, AgronaGT15_52, Alma_50, Aneem_51, Anselm_51, Anubis_56, Arissanae_49, AugsMagnumOpus_56, BABullseye_46, Bachome_52, Bactobuster_49, Beauxregard13_53, Beemo_50, BengiVuitton_52, BiancaTri92_50, Blinn1_55, BobSwaget_46, BogosyJay_49, Bowtie_51, BreSam8_53, Bud_50, Buggy_52, BuzzBuzz_51, C3_48, Candra_52, Caraxes_50, Changeling_49, Charm_49, Chartreuse_51, ChipMunk_52, CloudWang3_52, Colbster_53, Colin_50, Conquerage_50, Crucio_50, Cullens_53, D32_51, DBQu4n_52, DaHudson_53, DaVinci_51, Daishi_52, Dalmatian_51, Darrell_51, Deloris_51, Dieselweasel_54, Dignity_52, Dorothea_51, DreamTeam1_49, DudeLittle_49, Duplo_52, EZMoney23_48, Ebony_50, Eidsmoe_50, Elephantoon_49, EpicPhail_54, Equemioh13_51, EricB_52, Et2Brutus_49, ExplosioNervosa_50, Farber_53, Fayely_50, Fernando_53, Fibonacci_50, FiringLine_50, Flaverint_51, Garak_54, Gemma_52, Georgie2_51, Gilberta_51, GingkoMaracino_53, Grif_53, Groupthink_54, Grub_53, Grum1_53, Gruunaga_52, GtownJaz_53, HarryHoudini_51, HashRod_54, HaveUMetTed_54, Heffalump_49, Heliosoles_52, Helmet_54, Herbertwm_50, Hercules11_53, Hutc2_50, Insomnia_51, IronMan_50, Isiphiwo_50, Iwokeuplikedis_53, JHC117_53, Jaan_50, Jabith_51, Jeeves_54, JenCasNa_54, JeppNRM_54, Jerm_52, Jobu08_52, Joselito_51, Jsquared_48, KADY_53, Kalb97_54, Kalnoky_54, Kalpine_48, Kazan_53, Kerberos_52, Keziacharles14_50, KingCyrus_52, Koduck_51, Koko_53, LBerry_54, LadyBird_55, Landor_50, LarryKay_53, Leogania_50, Lilbunny_50, Lilith_54, Lokk_47, LoneWolf_51, Louie6_52, Luchador_54, Lucivia_51, LugYA_56, MaCh_51, Mabel_50, MadMarie_53, Mainiac_53, Malinsilva_55, Maminiaina_49, Manu_53, MarQuardt_53, Marie_53, Marius_54, McFly_52, Methuselah_49, Microwolf_53, Miko_47, Misomonster_54, MissWhite_49, MoneyMay_53, MuchMore_56, Mulciber_50, Munch_51, MyraDee_43, Naji_52, Neeharika16_51, NicoleTera_49, Odin_49,

OlanP_52, Ollie_53, Orange_50, P28Green_54, PGHhamlin_55, PainterBoy_51, Pawn_53, Pembroke_53, Penny1_54, Petersenfast_49, Phaeder_50, Pharaoh_45, PhishRPhriends_51, Phoebe_54, Phonnegut_50, Phoxy_53, Phranny_54, Pioneer_50, Pmask_52, Pomar16_52, PotatoSplit_55, Power_49, Priamo_54, Priya_50, PurpleHaze_53, Qobbit_50, QueenB2_49, QueenBeesly_50, Rachaly_49, Rahalelujah_50, Reba_53, RedRock_52, Retro23_51, Roksolana_53, Rummer_52, Sabia_53, Sabinator_52, Salz_49, Scherzo_50, Serenity_50, Sham4_50, SheaKeira_49, Smeagan_53, SnapTap_50, Snape_50, Snickers_53, SoYo_53, SoilDragon_53, Soshari_55, Spike509_53, Spouty_48, Stagni_53, StarStuff_52, Steamy_46, StepMih_53, SuperCallie99_51, Superchunk_49, SweetiePie_50, SwirlSquare_55, TarsusIV_49, Taurus_54, Tiffany_53, Timothy_50, TinyTimmy_49, TipsytheTRex_46, Toaka_50, Tomathan_52, ToneTone_49, Tubs_50, Tucker_53, Turbido_51, Ugenie5_47, Updawg_51, VA6_51, VC3_53, Vanisoa_50, Vix_53, VohminGhazi_52, Watson_53, WeiHuaDA_52, Whabigail7_51, Wooldri_55, WunderPhul_52, XianYue_49, Yecey3_51, Yokurt_52, Zaka_52, Zetzy_52, Zimmer_47,

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

- 20ES_53, Acolyte_46, Agape74_52, Aliter_50, AnnaL29_52, ArcherNM_45, Artemis2UCLA_52, BabyBack_49, Baehexic_49, Benvolio_47, Blue7_54, Bxz2_49, CRB1_54, Catalina_51, Centaur_51, Chargerpower_49, Che12_52, Cookiedough_52, D29_49, DarthPhader_47, Drake55_52, EagleEye_52, Echild_50, EmyBug_49, EvilGenius_52, Fameo_50, First_0052, Flare16_50, Gail_54, GaugeLDP_48, Gladiator_50, GreedyLawyer_52, Hammer_53, Hexamo_52, Hoot_47, HortumSL17_50, Indra_55, Jeffabunny_52, JewelBug_53, Jordennis_52, JoshKayV_52, Journey13_44, Kipper29_52, L5_49, Larenn_49, Leviathan_52, LilTurb_51, Loser_52, Lucyedi_51, Malec_50, MiculUcigas_50, Myxus_50, NaSiaTalie_50, Newrala_52, NothingSpecial_48, PackMan_49, Ph8s_52, Phaded_51, Piro94_50, Pukovnik_49, Refuge_49, Rifter_53, SemperFi_51, SmellyB_52, SororFago_52, SuperAwesome_52, Trixie_48, Trooper_51, WideWale_51, Wiks_51, Zulu_53,

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

- Alatin_39, Alpacados_38, Anaysia_54, AngryOrchard_37, Anthony_46, AppleCloud_37, Belenaria_39, BobbyDazzler_39, Bonanza_39, Boohoo_54, Bradshaw_39, Bryce_39, CosmicSans_39, Dinger_39, DroogsArmy_45, Epsocamisio_52, Erik_39, Espica_39, Fascinus_43, Gollum_39, Gyzlar_43, HINdeR_45, Harlequin_39, Hiro_39, Ibantik_26, JSwag_53, Jester_39, Jorgensen_48, Krishelle_39, LastResort_53, Lillie_39, Looper_54, Marchy_40, Maroc7_45, Naiad_39, Nancinator_39, Natosaleda_39, Nebulosus_53, Nedarya_49, Norz_47, Oofda_55, Parliament_46, Partridge_39, Payneful_45, PhailMary_38, Phlei_39, Phrankenstein_39, RER2_32, RGL3_34, Rasputin_39, ReMo_53, Remus_54, RexFury_39, Rhodalysa_39, Sheen_50, Shuman_39, StCroix_39, Strosahl_54, Success_22, Swann_39, TWAMP_39, Takoda_39, Teodoridan_45, Timshel_47, Topgun_46, UhSalsa_39, Waits_54, Wilkins_46, Yogi_39, Yoncess_39,

Summary by start number:

Start 1:

- Found in 8 of 384 (2.1%) of genes in pham
- Manual Annotations of this start: 4 of 354
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Artemis2UCLA_52 (A6), Blue7_54 (A6), Gladiator_50 (A6), Hammer_53 (A6),

Start 12:

- Found in 3 of 384 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 354
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Rifter_53 (A6),

Start 13:

- Found in 191 of 384 (49.7%) of genes in pham
- Manual Annotations of this start: 62 of 354
- Called 34.0% of time when present
- Phage (with cluster) where this start called: 20ES_53 (A2), Acolyte_46 (A2), Agape74_52 (A2), Aliter_50 (A9), AnnaL29_52 (A2), ArcherNM_45 (A2), BabyBack_49 (A2), Baehexic_49 (A2), Benvolio_47 (A2), CRB1_54 (A2), Catalina_51 (A9), Centaur_51 (A2), Chargerpower_49 (A), Che12_52 (A2), Cookiedough_52 (A6), D29_49 (A2), DARTHPhader_47 (A12), Drake55_52 (A2), EagleEye_52 (A16), Echild_50 (A2), EmyBug_49 (A9), EvilGenius_52 (A2), Fameo_50 (A2), First_0052 (A2), Flare16_50 (A2), Gail_54 (A14), GaugeLDP_48 (A2), GreedyLawyer_52 (A6), Hexamo_52 (A6), Hoot_47 (A6), HortumSL17_50 (A9), Indra_55 (A6), Jeffabunny_52 (A6), JewelBug_53 (A6), Jordennis_52 (A6), JoshKayV_52 (A2), Journey13_44 (A2), Kipper29_52 (A6), L5_49 (A2), Larenn_49 (A2), Leviathan_52 (A2), LiITurb_51 (A2), Loser_52 (A2), Lucyedi_51 (A16), Malec_50 (A2), MiculUcigas_50 (A2), Myxus_50 (A9), NaSiaTalie_50 (A2), Newrala_52 (A6), NothingSpecial_48 (A2), PackMan_49 (A9), Ph8s_52 (A2), Phaded_51 (A2), Piro94_50 (A2), Pukovnik_49 (A2), Refuge_49 (A12), SemperFi_51 (A2), SmellyB_52 (A6), SororFago_52 (A14), SuperAwesome_52 (A6), Trixie_48 (A2), Trooper_51 (A2), WideWale_51 (A2), Wiks_51 (A6), Zulu_53 (A6),

Start 17:

- Found in 314 of 384 (81.8%) of genes in pham
- Manual Annotations of this start: 223 of 354
- Called 77.4% of time when present
- Phage (with cluster) where this start called: 40AC_51 (A17), ACFishhook_52 (A3), AN3_53 (A2), AN9_53 (A2), ANI8_53 (A2), AbbyPaige_52 (A2), Adzzy_52 (A2), Aglet_54 (A3), AgronaGT15_52 (A3), Alma_50 (A9), Aneem_51 (A11), Anselm_51 (A2), Anubis_56 (A3), Arissanae_49 (A9), AugsMagnumOpus_56 (A3), BABullseye_46 (A6), Bachome_52 (A11), Bactobuster_49 (A2), Beauxregard13_53 (A3), Beemo_50 (A9), BengiVuitton_52 (A2), BiancaTri92_50 (A2), Blinn1_55 (A6), BobSwaget_46 (A2), BogosyJay_49 (A9), Bowtie_51 (A11), BreSam8_53 (A3), Bud_50 (A11), Buggy_52 (A2), BuzzBuzz_51 (A3), C3_48 (A2), Candra_52 (A6), Caraxes_50 (A2), Changeling_49 (A2), Charm_49 (A9), Chartreuse_51 (A6), ChipMunk_52 (A2), CloudWang3_52 (A6), Colbster_53 (A3), Colin_50 (A2), Conquerage_50 (A9), Crucio_50 (A2), Cullens_53 (A3), D32_51 (A2), DBQu4n_52 (A2), DaHudson_53 (A3), DaVinci_51 (A6), Daishi_52 (A3), Dalmatian_51 (A2), Darrell_51 (A9), Deloris_51 (A2), Dieselweasel_54 (A3), Dignity_52 (A2), Dorothea_51 (A6), DreamTeam1_49 (A9), DudeLittle_49 (A2), Duplo_52 (A2), EZMoney23_48 (A2), Ebony_50 (A11), Eidsmoe_50 (A9), Elephantoon_49 (A9), EpicPhail_54 (A3), Equemioh13_51 (A2), EricB_52 (A6), Et2Brutus_49 (A11), ExplosioNervosa_50 (A9), Farber_53 (A3), Fayely_50 (A9), Fernando_53 (A3), Fibonacci_50 (A11), FiringLine_50 (A2), Flaverint_51 (A11), Garak_54 (A6), Gemma_52 (A3), Georgie2_51 (A2), Gilberta_51 (A11), GingkoMaracino_53 (A3),

Grif_53 (A3), Groupthink_54 (A3), Grub_53 (A3), Grum1_53 (A3), Gruunaga_52 (A6), GtownJaz_53 (A3), HarryHoudini_51 (A2), HashRod_54 (A3), HaveUMetTed_54 (A3), Heffalump_49 (A2), Heliosoles_52 (A3), Helmet_54 (A6), Herbertwm_50 (A2), Hercules11_53 (A3), Hutc2_50 (A11), Insomnia_51 (A11), IronMan_50 (A2), Isiphiwo_50 (A6), Iwokeuplikedis_53 (A2), JHC117_53 (A3), Jaan_50 (A2), Jabith_51 (A11), Jeeves_54 (A14), JenCasNa_54 (A3), JeppNRM_54 (A3), Jerm_52 (A2), Jobu08_52 (A3), Joselito_51 (A11), Jsquared_48 (A2), KADY_53 (A3), Kalb97_54 (A3), Kalnoky_54 (A3), Kalpine_48 (A2), Kazan_53 (A6), Kerberos_52 (A2), Keziacharles14_50 (A9), KingCyrus_52 (A2), Koduck_51 (A2), Koko_53 (A6), LBerry_54 (A3), LadyBird_55 (A2), Landor_50 (A2), LarryKay_53 (A3), Leogania_50 (A2), Lilbunny_50 (A6), Lilith_54 (A3), Lokk_47 (A2), LoneWolf_51 (A9), Louie6_52 (A3), Luchador_54 (A14), Lucivia_51 (A11), LugYA_56 (A3), MaCh_51 (A11), Mabel_50 (A11), MadMarie_53 (A3), Mainiac_53 (A3), Malinsilva_55 (A3), Maminiaina_49 (A9), Manu_53 (A3), MarQuardt_53 (A3), Marie_53 (A3), Marius_54 (A3), McFly_52 (A6), Methuselah_49 (A3), Microwolf_53 (A3), Miko_47 (A2), Misomonster_54 (A3), MissWhite_49 (A2), MoneyMay_53 (A3), MuchMore_56 (A3), Mulciber_50 (A11), Munch_51 (A11), MyraDee_43 (A18), Naji_52 (A2), Neeharika16_51 (A6), NicoleTera_49 (A2), Odin_49 (A2), OlanP_52 (A3), Ollie_53 (A3), Orange_50 (A11), P28Green_54 (A3), PGHhamlin_55 (A3), PainterBoy_51 (A16), Pawn_53 (A3), Pembroke_53 (A3), Penny1_54 (A3), Petersenfast_49 (A11), Phaeder_50 (A9), Pharaoh_45 (A12), PhishRPhriends_51 (A3), Phoebe_54 (A3), Phonnegut_50 (A9), Phoxy_53 (A3), Phranny_54 (A3), Pioneer_50 (A9), Pmask_52 (A6), Pomar16_52 (A2), PotatoSplit_55 (A3), Power_49 (A2), Priamo_54 (A6), Priya_50 (A9), PurpleHaze_53 (A3), Qobbit_50 (A9), QueenB2_49 (A2), QueenBeesly_50 (A2), Rachaly_49 (A2), Rahalelujah_50 (A9), Reba_53 (A3), RedRock_52 (A2), Retro23_51 (A2), Roksolana_53 (A6), Rummer_52 (A3), Sabia_53 (A3), Sabinator_52 (A3), Salz_49 (A11), Scherzo_50 (A9), Serenity_50 (A2), Sham4_50 (A11), SheaKeira_49 (A9), Smeagan_53 (A2), SnapTap_50 (A2), Snape_50 (A11), Snickers_53 (A3), SoYo_53 (A3), SoilDragon_53 (A3), Soshari_55 (A3), Spike509_53 (A3), Spouty_48 (A9), Stagni_53 (A3), StarStuff_52 (A2), Steamy_46 (A12), StepMih_53 (A3), SuperCallie99_51 (A6), Superchunk_49 (A2), SweetiePie_50 (A2), SwirlSquare_55 (A2), TarsusIV_49 (A2), Taurus_54 (A3), Tiffany_53 (A3), Timothy_50 (A11), TinyTimmy_49 (A11), TipsytheTRex_46 (A2), Toaka_50 (A9), Tomathan_52 (A2), ToneTone_49 (A6), Tubs_50 (A9), Tucker_53 (A6), Turbido_51 (A2), Ugenie5_47 (A9), Updawg_51 (A2), VA6_51 (A2), VC3_53 (A2), Vanisoa_50 (A9), Vix_53 (A3), VohminGhazi_52 (A6), Watson_53 (A3), WeiHuaDA_52 (A2), Whabigail7_51 (A2), Wooldri_55 (A3), WunderPhul_52 (A6), XianYue_49 (A2), Yecey3_51 (A9), Yokurt_52 (A6), Zaka_52 (A6), Zetzy_52 (A3), Zimmer_47 (A12),

Start 19:

- Found in 83 of 384 (21.6%) of genes in pham
- Manual Annotations of this start: 1 of 354
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Bxz2_49 (A3),

Start 22:

- Found in 2 of 384 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 354
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Anthony_46 (A20),

Start 23:

- Found in 1 of 384 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 354
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nedarya_49 (A15),

Start 24:

- Found in 12 of 384 (3.1%) of genes in pham
- Manual Annotations of this start: 11 of 354
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_54 (A15), Boohoo_54 (A15), Epsocamisio_52 (A15), JSwag_53 (A15), LastResort_53 (A15), Looper_54 (A15), Nebulosus_53 (A15), Oofda_55 (A15), ReMo_53 (A15), Remus_54 (A15), Strosahl_54 (A15), Waits_54 (A15),

Start 27:

- Found in 1 of 384 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phlei_39 (A13),

Start 28:

- Found in 12 of 384 (3.1%) of genes in pham
- Manual Annotations of this start: 8 of 354
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Fascinus_43 (A1), Gyzlar_43 (A1), Jorgensen_48 (A1), Marchy_40 (A1), Maroc7_45 (A1), Norz_47 (A1), Parliament_46 (A1), Payneful_45 (A1), Teodoridan_45 (A1), Topgun_46 (A1), Wilkins_46 (A1),

Start 30:

- Found in 38 of 384 (9.9%) of genes in pham
- Manual Annotations of this start: 36 of 354
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatin_39 (CA), Alpacados_38 (CA), AngryOrchard_37 (CA), AppleCloud_37 (CA), Belenaria_39 (CA), BobbyDazzler_39 (CA), Bonanza_39 (CA), Bradshaw_39 (CA), Bryce_39 (CA), CosmicSans_39 (CA), Dinger_39 (CA), Erik_39 (CA), Espica_39 (CA), Gollum_39 (CA), Harlequin_39 (CA), Hiro_39 (CA), Jester_39 (CA), Krishelle_39 (CA), Lillie_39 (CA), Naiad_39 (CA), Nancinator_39 (CA), Natosaleda_39 (CA), Partridge_39 (CA), PhailMary_38 (CA), Phrankenstein_39 (CA), RER2_32 (CA), RGL3_34 (CA), Rasputin_39 (CA), RexFury_39 (CA), Rhodalysa_39 (CA), Shuman_39 (CA), StCroix_39 (CA), Swann_39 (CA), TWAMP_39 (CA), Takoda_39 (CA), UhSalsa_39 (CA), Yogi_39 (CA), Yoncess_39 (CA),

Start 31:

- Found in 1 of 384 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 354
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ibantik_26 (singleton),

Start 32:

- Found in 4 of 384 (1.0%) of genes in pham
- Manual Annotations of this start: 4 of 354
- Called 100.0% of time when present

- Phage (with cluster) where this start called: DroogsArmy_45 (A7), HINdeR_45 (A7), Sheen_50 (A7), Timshel_47 (A7),

Start 34:

- Found in 1 of 384 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 354
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Success_22 (singleton),

Summary by clusters:

There are 18 clusters represented in this pham: A15, A14, singleton, A16, A11, A13, A12, CA, A17, A18, A1, A20, A3, A2, A, A7, A6, A9,

Info for manual annotations of cluster A:

- Start number 13 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 28 was manually annotated 8 times for cluster A1.

Info for manual annotations of cluster A11:

- Start number 17 was manually annotated 23 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 13 was manually annotated 2 times for cluster A12.
- Start number 17 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 13 was manually annotated 2 times for cluster A14.
- Start number 17 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 23 was manually annotated 1 time for cluster A15.
- Start number 24 was manually annotated 11 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 13 was manually annotated 2 times for cluster A16.
- Start number 17 was manually annotated 1 time for cluster A16.

Info for manual annotations of cluster A18:

- Start number 17 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:

- Start number 13 was manually annotated 35 times for cluster A2.
- Start number 17 was manually annotated 66 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 22 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 17 was manually annotated 79 times for cluster A3.

- Start number 19 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A6:

- Start number 1 was manually annotated 4 times for cluster A6.
- Start number 12 was manually annotated 1 time for cluster A6.
- Start number 13 was manually annotated 14 times for cluster A6.
- Start number 17 was manually annotated 21 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 32 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster A9:

- Start number 13 was manually annotated 6 times for cluster A9.
- Start number 17 was manually annotated 27 times for cluster A9.

Info for manual annotations of cluster CA:

- Start number 30 was manually annotated 36 times for cluster CA.

Gene Information:

Gene: 20ES_53 Start: 34234, Stop: 33689, Start Num: 13

Candidate Starts for 20ES_53:

(Start: 13 @34234 has 62 MA's), (Start: 17 @34219 has 223 MA's), (52, 34108), (63, 34063), (70, 33988), (87, 33949), (103, 33799), (106, 33781), (109, 33751),

Gene: 40AC_51 Start: 34942, Stop: 34445, Start Num: 17

Candidate Starts for 40AC_51:

(Start: 13 @34957 has 62 MA's), (Start: 17 @34942 has 223 MA's), (40, 34873), (58, 34837), (66, 34765), (68, 34759), (70, 34735), (87, 34696), (103, 34552), (104, 34549), (106, 34534),

Gene: ACFishhook_52 Start: 33821, Stop: 33231, Start Num: 17

Candidate Starts for ACFishhook_52:

(Start: 17 @33821 has 223 MA's), (Start: 19 @33815 has 1 MA's), (55, 33671), (59, 33662), (64, 33635), (73, 33551), (103, 33347), (109, 33299),

Gene: AN3_53 Start: 34524, Stop: 34060, Start Num: 17

Candidate Starts for AN3_53:

(Start: 13 @34539 has 62 MA's), (Start: 17 @34524 has 223 MA's), (63, 34434), (70, 34359), (87, 34320), (103, 34170), (106, 34152), (109, 34122),

Gene: AN9_53 Start: 33887, Stop: 33309, Start Num: 17

Candidate Starts for AN9_53:

(Start: 13 @33902 has 62 MA's), (Start: 17 @33887 has 223 MA's), (55, 33773), (57, 33767), (63, 33740), (67, 33692), (71, 33662), (93, 33596), (94, 33593), (97, 33584), (99, 33575), (103, 33422),

Gene: ANI8_53 Start: 33887, Stop: 33309, Start Num: 17

Candidate Starts for ANI8_53:

(Start: 13 @33902 has 62 MA's), (Start: 17 @33887 has 223 MA's), (55, 33773), (57, 33767), (63, 33740), (67, 33692), (71, 33662), (93, 33596), (94, 33593), (97, 33584), (99, 33575), (103, 33422),

Gene: AbbyPaige_52 Start: 34144, Stop: 33626, Start Num: 17

Candidate Starts for AbbyPaige_52:

(Start: 13 @34159 has 62 MA's), (Start: 17 @34144 has 223 MA's), (40, 34060), (58, 34024), (66, 33952), (68, 33946), (70, 33922), (71, 33919), (73, 33910), (87, 33883), (103, 33736), (106, 33718), (109, 33688),

Gene: Acolyte_46 Start: 33097, Stop: 32558, Start Num: 13

Candidate Starts for Acolyte_46:

(Start: 13 @33097 has 62 MA's), (Start: 17 @33082 has 223 MA's), (58, 32968), (63, 32941), (68, 32890), (73, 32854), (87, 32827), (93, 32800), (103, 32671), (104, 32668),

Gene: Adzzy_52 Start: 32649, Stop: 32053, Start Num: 17

Candidate Starts for Adzzy_52:

(Start: 13 @32664 has 62 MA's), (Start: 17 @32649 has 223 MA's), (56, 32496), (67, 32421), (99, 32304), (101, 32283), (103, 32163), (104, 32160), (109, 32118),

Gene: Agape74_52 Start: 34153, Stop: 33611, Start Num: 13

Candidate Starts for Agape74_52:

(Start: 13 @34153 has 62 MA's), (Start: 17 @34138 has 223 MA's), (40, 34051), (58, 34015), (63, 33988), (66, 33943), (68, 33937), (70, 33913), (87, 33874), (103, 33721), (106, 33703), (109, 33673),

Gene: Aglet_54 Start: 33857, Stop: 33267, Start Num: 17

Candidate Starts for Aglet_54:

(Start: 17 @33857 has 223 MA's), (Start: 19 @33851 has 1 MA's), (55, 33707), (59, 33698), (64, 33671), (73, 33587), (103, 33383), (109, 33335),

Gene: AgronaGT15_52 Start: 33705, Stop: 33118, Start Num: 17

Candidate Starts for AgronaGT15_52:

(Start: 17 @33705 has 223 MA's), (Start: 19 @33699 has 1 MA's), (55, 33561), (59, 33552), (64, 33525), (65, 33522), (69, 33462), (73, 33441), (103, 33234), (109, 33186),

Gene: Alatin_39 Start: 29865, Stop: 29341, Start Num: 30

Candidate Starts for Alatin_39:

(Start: 30 @29865 has 36 MA's), (55, 29760), (103, 29448), (105, 29439), (106, 29430), (109, 29400),

Gene: Aliter_50 Start: 33562, Stop: 33032, Start Num: 13

Candidate Starts for Aliter_50:

(Start: 13 @33562 has 62 MA's), (Start: 17 @33547 has 223 MA's), (46, 33454), (58, 33430), (68, 33352), (87, 33289), (103, 33139),

Gene: Alma_50 Start: 33745, Stop: 33188, Start Num: 17

Candidate Starts for Alma_50:

(Start: 13 @33760 has 62 MA's), (Start: 17 @33745 has 223 MA's), (43, 33649), (45, 33646), (55, 33625), (69, 33535), (99, 33436), (103, 33295),

Gene: Alpacados_38 Start: 29770, Stop: 29246, Start Num: 30

Candidate Starts for Alpacados_38:

(Start: 30 @29770 has 36 MA's), (55, 29665), (103, 29353), (105, 29344), (106, 29335), (109, 29305),

Gene: Anaysia_54 Start: 32758, Stop: 32216, Start Num: 24

Candidate Starts for Anaysia_54:

(Start: 24 @32758 has 11 MA's), (25, 32752), (51, 32647), (60, 32620), (61, 32617), (74, 32506), (83, 32485), (88, 32476), (90, 32467), (103, 32320), (109, 32275),

Gene: Aneem_51 Start: 33271, Stop: 32702, Start Num: 17
Candidate Starts for Aneem_51:
(Start: 17 @33271 has 223 MA's), (56, 33136), (91, 32971), (103, 32815),

Gene: AngryOrchard_37 Start: 29729, Stop: 29205, Start Num: 30
Candidate Starts for AngryOrchard_37:
(Start: 30 @29729 has 36 MA's), (55, 29624), (103, 29312), (105, 29303), (106, 29294), (109, 29264),

Gene: AnnaL29_52 Start: 34705, Stop: 34160, Start Num: 13
Candidate Starts for AnnaL29_52:
(Start: 13 @34705 has 62 MA's), (Start: 17 @34690 has 223 MA's), (58, 34570), (63, 34543), (66, 34498), (68, 34492), (70, 34468), (85, 34432), (87, 34429), (90, 34420), (103, 34273), (106, 34255), (109, 34225),

Gene: Anselm_51 Start: 34069, Stop: 33545, Start Num: 17
Candidate Starts for Anselm_51:
(Start: 13 @34084 has 62 MA's), (Start: 17 @34069 has 223 MA's), (58, 33955), (63, 33928), (68, 33877), (70, 33853), (87, 33814), (90, 33805), (103, 33655), (106, 33637), (109, 33607),

Gene: Anthony_46 Start: 31582, Stop: 31001, Start Num: 22
Candidate Starts for Anthony_46:
(15, 31606), (Start: 22 @31582 has 1 MA's), (35, 31510), (58, 31441), (67, 31366), (82, 31306), (88, 31297), (98, 31255), (99, 31249), (103, 31108), (110, 31054),

Gene: Anubis_56 Start: 33743, Stop: 33153, Start Num: 17
Candidate Starts for Anubis_56:
(Start: 17 @33743 has 223 MA's), (Start: 19 @33737 has 1 MA's), (55, 33593), (59, 33584), (64, 33557), (73, 33473), (103, 33269), (109, 33221),

Gene: AppleCloud_37 Start: 29816, Stop: 29292, Start Num: 30
Candidate Starts for AppleCloud_37:
(Start: 30 @29816 has 36 MA's), (55, 29711), (103, 29399), (105, 29390), (106, 29381), (109, 29351),

Gene: ArcherNM_45 Start: 33685, Stop: 33152, Start Num: 13
Candidate Starts for ArcherNM_45:
(Start: 13 @33685 has 62 MA's), (Start: 17 @33670 has 223 MA's), (46, 33595), (58, 33562), (63, 33535), (66, 33490), (67, 33487), (68, 33484), (70, 33460), (87, 33421), (103, 33265), (106, 33247),

Gene: Arissanae_49 Start: 34251, Stop: 33733, Start Num: 17
Candidate Starts for Arissanae_49:
(Start: 13 @34266 has 62 MA's), (Start: 17 @34251 has 223 MA's), (47, 34158), (58, 34137), (66, 34065), (70, 34035), (87, 33996), (103, 33840),

Gene: Artemis2UCLA_52 Start: 32678, Stop: 31923, Start Num: 1
Candidate Starts for Artemis2UCLA_52:
(Start: 1 @32678 has 4 MA's), (2, 32663), (3, 32642), (4, 32612), (5, 32606), (Start: 17 @32480 has 223 MA's), (67, 32270), (68, 32267), (87, 32204), (90, 32195), (103, 32033), (104, 32030),

Gene: AugsMagnumOpus_56 Start: 33848, Stop: 33258, Start Num: 17
Candidate Starts for AugsMagnumOpus_56:
(Start: 17 @33848 has 223 MA's), (Start: 19 @33842 has 1 MA's), (55, 33698), (59, 33689), (64, 33662), (73, 33578), (103, 33374), (109, 33326),

Gene: BABullseye_46 Start: 30456, Stop: 29878, Start Num: 17

Candidate Starts for BABullseye_46:

(Start: 13 @30471 has 62 MA's), (Start: 17 @30456 has 223 MA's), (52, 30345), (59, 30327), (92, 30165), (99, 30138), (103, 29988), (104, 29985),

Gene: BabyBack_49 Start: 34396, Stop: 33866, Start Num: 13

Candidate Starts for BabyBack_49:

(Start: 13 @34396 has 62 MA's), (Start: 17 @34381 has 223 MA's), (59, 34276), (69, 34189), (73, 34168), (85, 34138), (87, 34135), (103, 33976), (109, 33931),

Gene: Bachome_52 Start: 33251, Stop: 32685, Start Num: 17

Candidate Starts for Bachome_52:

(Start: 17 @33251 has 223 MA's), (62, 33098), (91, 32957), (103, 32798),

Gene: Bactobuster_49 Start: 34631, Stop: 34086, Start Num: 17

Candidate Starts for Bactobuster_49:

(Start: 13 @34646 has 62 MA's), (Start: 17 @34631 has 223 MA's), (65, 34502), (67, 34460), (80, 34403), (88, 34391), (92, 34370), (99, 34343), (103, 34193), (106, 34175),

Gene: Baehexic_49 Start: 33840, Stop: 33316, Start Num: 13

Candidate Starts for Baehexic_49:

(Start: 13 @33840 has 62 MA's), (Start: 17 @33825 has 223 MA's), (40, 33756), (58, 33720), (63, 33693), (66, 33648), (68, 33642), (70, 33618), (73, 33606), (87, 33579), (90, 33570), (93, 33552), (103, 33429),

Gene: Beauxregard13_53 Start: 33860, Stop: 33270, Start Num: 17

Candidate Starts for Beauxregard13_53:

(Start: 17 @33860 has 223 MA's), (Start: 19 @33854 has 1 MA's), (55, 33710), (59, 33701), (64, 33674), (73, 33590), (103, 33386), (109, 33338),

Gene: Beemo_50 Start: 33717, Stop: 33154, Start Num: 17

Candidate Starts for Beemo_50:

(Start: 13 @33732 has 62 MA's), (Start: 17 @33717 has 223 MA's), (56, 33591), (69, 33501), (99, 33402), (103, 33261),

Gene: Belenaria_39 Start: 29797, Stop: 29273, Start Num: 30

Candidate Starts for Belenaria_39:

(Start: 30 @29797 has 36 MA's), (55, 29692), (103, 29380), (105, 29371), (106, 29362), (109, 29332),

Gene: BengiVuitton_52 Start: 34166, Stop: 33642, Start Num: 17

Candidate Starts for BengiVuitton_52:

(Start: 13 @34181 has 62 MA's), (Start: 17 @34166 has 223 MA's), (52, 34061), (63, 34016), (73, 33929), (87, 33902), (103, 33752), (106, 33734), (109, 33704),

Gene: Benvolio_47 Start: 33106, Stop: 32576, Start Num: 13

Candidate Starts for Benvolio_47:

(Start: 13 @33106 has 62 MA's), (Start: 17 @33091 has 223 MA's), (58, 32977), (63, 32950), (66, 32905), (68, 32899), (70, 32875), (87, 32836), (90, 32827), (103, 32686), (106, 32668), (109, 32638),

Gene: BiancaTri92_50 Start: 34471, Stop: 33944, Start Num: 17

Candidate Starts for BiancaTri92_50:

(Start: 13 @34486 has 62 MA's), (Start: 17 @34471 has 223 MA's), (40, 34387), (58, 34345), (63, 34318), (66, 34273), (68, 34267), (70, 34243), (73, 34231), (87, 34204), (103, 34054), (106, 34036),

(109, 34006),

Gene: Blinn1_55 Start: 32877, Stop: 32299, Start Num: 17

Candidate Starts for Blinn1_55:

(Start: 13 @32892 has 62 MA's), (Start: 17 @32877 has 223 MA's), (56, 32748), (92, 32577), (99, 32550), (103, 32409), (104, 32406),

Gene: Blue7_54 Start: 32748, Stop: 32002, Start Num: 1

Candidate Starts for Blue7_54:

(Start: 1 @32748 has 4 MA's), (2, 32733), (3, 32712), (4, 32682), (5, 32676), (Start: 17 @32550 has 223 MA's), (67, 32340), (68, 32337), (87, 32274), (90, 32265), (103, 32112), (104, 32109),

Gene: BobSwaget_46 Start: 32491, Stop: 31973, Start Num: 17

Candidate Starts for BobSwaget_46:

(10, 32518), (Start: 13 @32506 has 62 MA's), (Start: 17 @32491 has 223 MA's), (40, 32419), (58, 32383), (60, 32377), (63, 32356), (68, 32305), (70, 32281), (73, 32269), (87, 32242), (103, 32083), (106, 32065), (109, 32035),

Gene: BobbyDazzler_39 Start: 29844, Stop: 29320, Start Num: 30

Candidate Starts for BobbyDazzler_39:

(Start: 30 @29844 has 36 MA's), (55, 29739), (103, 29427), (105, 29418), (106, 29409), (109, 29379),

Gene: BogosyJay_49 Start: 33444, Stop: 32878, Start Num: 17

Candidate Starts for BogosyJay_49:

(Start: 13 @33459 has 62 MA's), (Start: 17 @33444 has 223 MA's), (43, 33342), (45, 33339), (69, 33228), (99, 33129), (103, 32985),

Gene: Bonanza_39 Start: 29772, Stop: 29248, Start Num: 30

Candidate Starts for Bonanza_39:

(Start: 30 @29772 has 36 MA's), (55, 29667), (103, 29355), (105, 29346), (106, 29337), (109, 29307),

Gene: Boohoo_54 Start: 32758, Stop: 32216, Start Num: 24

Candidate Starts for Boohoo_54:

(Start: 24 @32758 has 11 MA's), (25, 32752), (51, 32647), (60, 32620), (61, 32617), (74, 32506), (83, 32485), (88, 32476), (90, 32467), (103, 32320), (109, 32275),

Gene: Bowtie_51 Start: 33278, Stop: 32709, Start Num: 17

Candidate Starts for Bowtie_51:

(Start: 17 @33278 has 223 MA's), (56, 33143), (91, 32978), (103, 32822),

Gene: Bradshaw_39 Start: 29798, Stop: 29274, Start Num: 30

Candidate Starts for Bradshaw_39:

(Start: 30 @29798 has 36 MA's), (55, 29693), (103, 29381), (105, 29372), (106, 29363), (109, 29333),

Gene: BreSam8_53 Start: 33850, Stop: 33260, Start Num: 17

Candidate Starts for BreSam8_53:

(Start: 17 @33850 has 223 MA's), (Start: 19 @33844 has 1 MA's), (55, 33700), (59, 33691), (64, 33664), (73, 33580), (103, 33376), (109, 33328),

Gene: Bryce_39 Start: 29773, Stop: 29249, Start Num: 30

Candidate Starts for Bryce_39:

(Start: 30 @29773 has 36 MA's), (55, 29668), (103, 29356), (105, 29347), (106, 29338), (109, 29308),

Gene: Bud_50 Start: 32828, Stop: 32259, Start Num: 17
Candidate Starts for Bud_50:
(Start: 17 @32828 has 223 MA's), (56, 32693), (91, 32528), (103, 32372),

Gene: Buggy_52 Start: 34195, Stop: 33686, Start Num: 17
Candidate Starts for Buggy_52:
(Start: 13 @34210 has 62 MA's), (Start: 17 @34195 has 223 MA's), (40, 34126), (58, 34090), (63, 34063), (66, 34018), (68, 34012), (70, 33988), (73, 33976), (87, 33949), (90, 33940), (93, 33922), (103, 33799),

Gene: BuzzBuzz_51 Start: 33884, Stop: 33297, Start Num: 17
Candidate Starts for BuzzBuzz_51:
(Start: 17 @33884 has 223 MA's), (Start: 19 @33878 has 1 MA's), (55, 33740), (59, 33731), (64, 33704), (65, 33701), (69, 33641), (73, 33620), (103, 33413), (109, 33365),

Gene: Bxz2_49 Start: 33885, Stop: 33304, Start Num: 19
Candidate Starts for Bxz2_49:
(Start: 17 @33891 has 223 MA's), (Start: 19 @33885 has 1 MA's), (55, 33747), (59, 33738), (64, 33711), (65, 33708), (69, 33648), (73, 33627), (103, 33420), (109, 33372),

Gene: C3_48 Start: 33887, Stop: 33309, Start Num: 17
Candidate Starts for C3_48:
(Start: 13 @33902 has 62 MA's), (Start: 17 @33887 has 223 MA's), (55, 33773), (57, 33767), (63, 33740), (67, 33692), (71, 33662), (93, 33596), (94, 33593), (97, 33584), (99, 33575), (103, 33422),

Gene: CRB1_54 Start: 34574, Stop: 34032, Start Num: 13
Candidate Starts for CRB1_54:
(Start: 13 @34574 has 62 MA's), (Start: 17 @34559 has 223 MA's), (52, 34454), (63, 34409), (66, 34364), (70, 34334), (87, 34295), (103, 34142), (106, 34124), (109, 34094),

Gene: Candra_52 Start: 32814, Stop: 32242, Start Num: 17
Candidate Starts for Candra_52:
(Start: 13 @32829 has 62 MA's), (Start: 17 @32814 has 223 MA's), (52, 32703), (59, 32685), (92, 32523), (99, 32496), (103, 32352), (104, 32349),

Gene: Caraxes_50 Start: 32358, Stop: 31759, Start Num: 17
Candidate Starts for Caraxes_50:
(Start: 13 @32373 has 62 MA's), (Start: 17 @32358 has 223 MA's), (56, 32208), (67, 32133), (74, 32088), (99, 32016), (103, 31869), (104, 31866), (106, 31851), (109, 31824),

Gene: Catalina_51 Start: 33635, Stop: 33105, Start Num: 13
Candidate Starts for Catalina_51:
(Start: 13 @33635 has 62 MA's), (Start: 17 @33620 has 223 MA's), (46, 33527), (58, 33503), (68, 33425), (87, 33362), (103, 33212),

Gene: Centaur_51 Start: 34057, Stop: 33533, Start Num: 13
Candidate Starts for Centaur_51:
(Start: 13 @34057 has 62 MA's), (Start: 17 @34042 has 223 MA's), (40, 33973), (58, 33937), (63, 33910), (66, 33865), (68, 33859), (70, 33835), (73, 33823), (87, 33796), (90, 33787), (93, 33769), (103, 33646),

Gene: Changeling_49 Start: 34250, Stop: 33735, Start Num: 17
Candidate Starts for Changeling_49:

(Start: 13 @34265 has 62 MA's), (Start: 17 @34250 has 223 MA's), (63, 34115), (66, 34070), (68, 34064), (70, 34040), (87, 34001), (103, 33848), (106, 33830),

Gene: Chargerpower_49 Start: 32641, Stop: 32096, Start Num: 13

Candidate Starts for Chargerpower_49:

(Start: 13 @32641 has 62 MA's), (Start: 17 @32626 has 223 MA's), (35, 32557), (40, 32539), (58, 32497), (63, 32470), (66, 32425), (68, 32419), (73, 32383), (87, 32356), (103, 32200), (104, 32197), (109, 32152),

Gene: Charm_49 Start: 33504, Stop: 32941, Start Num: 17

Candidate Starts for Charm_49:

(Start: 13 @33519 has 62 MA's), (Start: 17 @33504 has 223 MA's), (42, 33414), (56, 33384), (69, 33291), (99, 33192), (103, 33048),

Gene: Chartreuse_51 Start: 32174, Stop: 31602, Start Num: 17

Candidate Starts for Chartreuse_51:

(Start: 13 @32189 has 62 MA's), (Start: 17 @32174 has 223 MA's), (52, 32063), (59, 32045), (92, 31883), (99, 31856), (103, 31712), (104, 31709),

Gene: Che12_52 Start: 32805, Stop: 32197, Start Num: 13

Candidate Starts for Che12_52:

(Start: 13 @32805 has 62 MA's), (Start: 17 @32790 has 223 MA's), (56, 32649), (74, 32529), (99, 32457), (103, 32307), (104, 32304), (109, 32262),

Gene: ChipMunk_52 Start: 35413, Stop: 34883, Start Num: 17

Candidate Starts for ChipMunk_52:

(Start: 13 @35428 has 62 MA's), (Start: 17 @35413 has 223 MA's), (40, 35323), (58, 35287), (63, 35260), (66, 35215), (68, 35209), (70, 35185), (87, 35146), (103, 34993), (106, 34975), (109, 34945),

Gene: CloudWang3_52 Start: 32568, Stop: 32023, Start Num: 17

Candidate Starts for CloudWang3_52:

(Start: 1 @32766 has 4 MA's), (2, 32751), (3, 32730), (4, 32700), (5, 32694), (Start: 17 @32568 has 223 MA's), (67, 32358), (68, 32355), (87, 32292), (90, 32283), (103, 32133), (104, 32130),

Gene: Colbster_53 Start: 33860, Stop: 33270, Start Num: 17

Candidate Starts for Colbster_53:

(Start: 17 @33860 has 223 MA's), (Start: 19 @33854 has 1 MA's), (55, 33710), (59, 33701), (64, 33674), (73, 33590), (103, 33386), (109, 33338),

Gene: Colin_50 Start: 34033, Stop: 33509, Start Num: 17

Candidate Starts for Colin_50:

(Start: 13 @34048 has 62 MA's), (Start: 17 @34033 has 223 MA's), (63, 33886), (66, 33841), (68, 33835), (70, 33811), (87, 33772), (103, 33619), (106, 33601), (109, 33571),

Gene: Conquerage_50 Start: 33691, Stop: 33128, Start Num: 17

Candidate Starts for Conquerage_50:

(Start: 13 @33706 has 62 MA's), (Start: 17 @33691 has 223 MA's), (56, 33565), (69, 33475), (99, 33376), (103, 33235),

Gene: Cookiedough_52 Start: 32808, Stop: 32215, Start Num: 13

Candidate Starts for Cookiedough_52:

(Start: 13 @32808 has 62 MA's), (Start: 17 @32793 has 223 MA's), (52, 32682), (59, 32664), (92, 32502), (99, 32475), (103, 32325), (104, 32322),

Gene: CosmicSans_39 Start: 29798, Stop: 29274, Start Num: 30
Candidate Starts for CosmicSans_39:
(Start: 30 @29798 has 36 MA's), (55, 29693), (103, 29381), (105, 29372), (106, 29363), (109, 29333),

Gene: Crucio_50 Start: 33650, Stop: 33129, Start Num: 17
Candidate Starts for Crucio_50:
(Start: 13 @33665 has 62 MA's), (Start: 17 @33650 has 223 MA's), (58, 33536), (63, 33509), (66, 33464), (68, 33458), (70, 33434), (87, 33395), (90, 33386), (103, 33239), (106, 33221), (109, 33191),

Gene: Cullens_53 Start: 33856, Stop: 33266, Start Num: 17
Candidate Starts for Cullens_53:
(Start: 17 @33856 has 223 MA's), (Start: 19 @33850 has 1 MA's), (55, 33706), (59, 33697), (64, 33670), (73, 33586), (103, 33382), (109, 33334),

Gene: D29_49 Start: 33484, Stop: 32891, Start Num: 13
Candidate Starts for D29_49:
(Start: 13 @33484 has 62 MA's), (Start: 17 @33469 has 223 MA's), (55, 33352), (57, 33346), (63, 33322), (67, 33274), (94, 33175), (97, 33166), (99, 33157), (103, 33004),

Gene: D32_51 Start: 33469, Stop: 32891, Start Num: 17
Candidate Starts for D32_51:
(Start: 13 @33484 has 62 MA's), (Start: 17 @33469 has 223 MA's), (55, 33352), (57, 33346), (63, 33322), (67, 33274), (94, 33175), (97, 33166), (99, 33157), (103, 33004),

Gene: DBQu4n_52 Start: 33468, Stop: 32890, Start Num: 17
Candidate Starts for DBQu4n_52:
(Start: 13 @33483 has 62 MA's), (Start: 17 @33468 has 223 MA's), (57, 33345), (63, 33321), (67, 33273), (94, 33174), (97, 33165), (99, 33156), (103, 33003),

Gene: DaHudson_53 Start: 33849, Stop: 33259, Start Num: 17
Candidate Starts for DaHudson_53:
(Start: 17 @33849 has 223 MA's), (Start: 19 @33843 has 1 MA's), (55, 33699), (59, 33690), (64, 33663), (73, 33579), (103, 33375), (109, 33327),

Gene: DaVinci_51 Start: 32228, Stop: 31656, Start Num: 17
Candidate Starts for DaVinci_51:
(Start: 13 @32243 has 62 MA's), (Start: 17 @32228 has 223 MA's), (52, 32117), (59, 32099), (92, 31937), (99, 31910), (103, 31766), (104, 31763),

Gene: Daishi_52 Start: 32725, Stop: 32138, Start Num: 17
Candidate Starts for Daishi_52:
(Start: 17 @32725 has 223 MA's), (Start: 19 @32719 has 1 MA's), (55, 32581), (59, 32572), (64, 32545), (65, 32542), (69, 32482), (73, 32461), (103, 32254), (109, 32206),

Gene: Dalmatian_51 Start: 34042, Stop: 33521, Start Num: 17
Candidate Starts for Dalmatian_51:
(Start: 13 @34057 has 62 MA's), (Start: 17 @34042 has 223 MA's), (58, 33928), (63, 33901), (68, 33850), (70, 33826), (87, 33787), (90, 33778), (103, 33631), (106, 33613), (109, 33583),

Gene: Darrell_51 Start: 34320, Stop: 33751, Start Num: 17
Candidate Starts for Darrell_51:

(Start: 13 @34335 has 62 MA's), (Start: 17 @34320 has 223 MA's), (45, 34215), (69, 34104), (99, 34005), (103, 33858),

Gene: DarthPhader_47 Start: 34512, Stop: 33961, Start Num: 13

Candidate Starts for DarthPhader_47:

(Start: 13 @34512 has 62 MA's), (Start: 17 @34497 has 223 MA's), (58, 34371), (73, 34257), (103, 34062), (104, 34059),

Gene: Deloris_51 Start: 33835, Stop: 33311, Start Num: 17

Candidate Starts for Deloris_51:

(Start: 13 @33850 has 62 MA's), (Start: 17 @33835 has 223 MA's), (52, 33730), (63, 33685), (68, 33634), (73, 33598), (87, 33571), (103, 33421), (106, 33403), (109, 33373),

Gene: Dieselweasel_54 Start: 33859, Stop: 33269, Start Num: 17

Candidate Starts for Dieselweasel_54:

(Start: 17 @33859 has 223 MA's), (Start: 19 @33853 has 1 MA's), (55, 33709), (59, 33700), (64, 33673), (73, 33589), (103, 33385), (109, 33337),

Gene: Dignity_52 Start: 34218, Stop: 33691, Start Num: 17

Candidate Starts for Dignity_52:

(Start: 13 @34233 has 62 MA's), (Start: 17 @34218 has 223 MA's), (40, 34131), (58, 34095), (63, 34068), (66, 34023), (68, 34017), (70, 33993), (87, 33954), (103, 33801), (106, 33783), (109, 33753),

Gene: Dinger_39 Start: 29859, Stop: 29335, Start Num: 30

Candidate Starts for Dinger_39:

(Start: 30 @29859 has 36 MA's), (55, 29754), (103, 29442), (105, 29433), (106, 29424), (109, 29394),

Gene: Dorothea_51 Start: 32797, Stop: 32225, Start Num: 17

Candidate Starts for Dorothea_51:

(Start: 13 @32812 has 62 MA's), (Start: 17 @32797 has 223 MA's), (52, 32686), (59, 32668), (92, 32506), (99, 32479), (103, 32335), (104, 32332),

Gene: Drake55_52 Start: 34136, Stop: 33609, Start Num: 13

Candidate Starts for Drake55_52:

(Start: 13 @34136 has 62 MA's), (Start: 17 @34121 has 223 MA's), (40, 34052), (58, 34016), (63, 33989), (68, 33938), (70, 33914), (73, 33902), (87, 33875), (90, 33866), (93, 33848), (103, 33722),

Gene: DreamTeam1_49 Start: 33360, Stop: 32815, Start Num: 17

Candidate Starts for DreamTeam1_49:

(Start: 13 @33375 has 62 MA's), (Start: 17 @33360 has 223 MA's), (56, 33258), (69, 33165), (99, 33066), (103, 32922),

Gene: DroogsArmy_45 Start: 34322, Stop: 33822, Start Num: 32

Candidate Starts for DroogsArmy_45:

(Start: 32 @34322 has 4 MA's), (57, 34217), (73, 34097), (88, 34067), (110, 33869),

Gene: DudeLittle_49 Start: 33784, Stop: 33263, Start Num: 17

Candidate Starts for DudeLittle_49:

(Start: 13 @33799 has 62 MA's), (Start: 17 @33784 has 223 MA's), (58, 33670), (63, 33643), (68, 33592), (70, 33568), (87, 33529), (103, 33373), (106, 33355), (109, 33325),

Gene: Duplo_52 Start: 33506, Stop: 32928, Start Num: 17

Candidate Starts for Duplo_52:

(Start: 13 @33521 has 62 MA's), (Start: 17 @33506 has 223 MA's), (55, 33389), (57, 33383), (63, 33359), (67, 33311), (71, 33281), (94, 33212), (97, 33203), (99, 33194), (103, 33041),

Gene: EZMoney23_48 Start: 33569, Stop: 33063, Start Num: 17

Candidate Starts for EZMoney23_48:

(Start: 13 @33584 has 62 MA's), (Start: 17 @33569 has 223 MA's), (58, 33476), (63, 33449), (66, 33404), (68, 33398), (70, 33374), (87, 33335), (103, 33176), (106, 33158),

Gene: EagleEye_52 Start: 33301, Stop: 32738, Start Num: 13

Candidate Starts for EagleEye_52:

(Start: 13 @33301 has 62 MA's), (Start: 17 @33286 has 223 MA's), (47, 33169), (66, 33067), (68, 33061), (87, 32998), (90, 32989), (103, 32845),

Gene: Ebony_50 Start: 32845, Stop: 32276, Start Num: 17

Candidate Starts for Ebony_50:

(Start: 17 @32845 has 223 MA's), (56, 32710), (91, 32545), (103, 32389),

Gene: Echild_50 Start: 33130, Stop: 32600, Start Num: 13

Candidate Starts for Echild_50:

(Start: 13 @33130 has 62 MA's), (Start: 17 @33115 has 223 MA's), (58, 33001), (63, 32974), (66, 32929), (68, 32923), (70, 32899), (87, 32860), (90, 32851), (103, 32710), (106, 32692), (109, 32662),

Gene: Eidsmoe_50 Start: 33683, Stop: 33168, Start Num: 17

Candidate Starts for Eidsmoe_50:

(Start: 13 @33698 has 62 MA's), (Start: 17 @33683 has 223 MA's), (46, 33590), (58, 33566), (68, 33488), (87, 33425), (103, 33275),

Gene: Elephantoon_49 Start: 33065, Stop: 32502, Start Num: 17

Candidate Starts for Elephantoon_49:

(Start: 13 @33080 has 62 MA's), (Start: 17 @33065 has 223 MA's), (45, 32963), (99, 32753), (103, 32609),

Gene: EmyBug_49 Start: 33700, Stop: 33170, Start Num: 13

Candidate Starts for EmyBug_49:

(Start: 13 @33700 has 62 MA's), (Start: 17 @33685 has 223 MA's), (46, 33592), (58, 33568), (68, 33490), (87, 33427), (103, 33277),

Gene: EpicPhail_54 Start: 33860, Stop: 33270, Start Num: 17

Candidate Starts for EpicPhail_54:

(Start: 17 @33860 has 223 MA's), (Start: 19 @33854 has 1 MA's), (55, 33710), (59, 33701), (64, 33674), (73, 33590), (103, 33386), (109, 33338),

Gene: Epsocamisio_52 Start: 32293, Stop: 31751, Start Num: 24

Candidate Starts for Epsocamisio_52:

(Start: 24 @32293 has 11 MA's), (25, 32287), (51, 32182), (60, 32155), (61, 32152), (74, 32041), (83, 32020), (88, 32011), (90, 32002), (103, 31855), (109, 31810),

Gene: Equemioh13_51 Start: 33944, Stop: 33435, Start Num: 17

Candidate Starts for Equemioh13_51:

(Start: 13 @33959 has 62 MA's), (Start: 17 @33944 has 223 MA's), (40, 33875), (58, 33839), (63, 33812), (66, 33767), (68, 33761), (70, 33737), (73, 33725), (87, 33698), (90, 33689), (93, 33671), (103, 33548),

Gene: EricB_52 Start: 32771, Stop: 32199, Start Num: 17

Candidate Starts for EricB_52:

(Start: 13 @32786 has 62 MA's), (Start: 17 @32771 has 223 MA's), (52, 32660), (59, 32642), (92, 32480), (99, 32453), (103, 32309), (104, 32306),

Gene: Erik_39 Start: 29796, Stop: 29272, Start Num: 30

Candidate Starts for Erik_39:

(Start: 30 @29796 has 36 MA's), (55, 29691), (103, 29379), (105, 29370), (106, 29361), (109, 29331),

Gene: Espica_39 Start: 29797, Stop: 29273, Start Num: 30

Candidate Starts for Espica_39:

(Start: 30 @29797 has 36 MA's), (55, 29692), (103, 29380), (105, 29371), (106, 29362), (109, 29332),

Gene: Et2Brutus_49 Start: 32805, Stop: 32236, Start Num: 17

Candidate Starts for Et2Brutus_49:

(Start: 17 @32805 has 223 MA's), (56, 32670), (91, 32505), (103, 32349),

Gene: EvilGenius_52 Start: 35429, Stop: 34887, Start Num: 13

Candidate Starts for EvilGenius_52:

(Start: 13 @35429 has 62 MA's), (Start: 17 @35414 has 223 MA's), (40, 35327), (58, 35291), (63, 35264), (66, 35219), (68, 35213), (70, 35189), (87, 35150), (103, 34997), (106, 34979), (109, 34949),

Gene: ExplosioNervosa_50 Start: 33751, Stop: 33188, Start Num: 17

Candidate Starts for ExplosioNervosa_50:

(Start: 13 @33766 has 62 MA's), (Start: 17 @33751 has 223 MA's), (56, 33625), (69, 33535), (99, 33436), (103, 33295),

Gene: Fameo_50 Start: 33969, Stop: 33436, Start Num: 13

Candidate Starts for Fameo_50:

(Start: 13 @33969 has 62 MA's), (Start: 17 @33954 has 223 MA's), (58, 33840), (63, 33813), (68, 33762), (70, 33738), (87, 33699), (90, 33690), (103, 33546), (106, 33528), (109, 33498),

Gene: Farber_53 Start: 33846, Stop: 33259, Start Num: 17

Candidate Starts for Farber_53:

(Start: 17 @33846 has 223 MA's), (Start: 19 @33840 has 1 MA's), (55, 33702), (59, 33693), (64, 33666), (65, 33663), (69, 33603), (73, 33582), (103, 33375), (109, 33327),

Gene: Fascinus_43 Start: 34815, Stop: 34276, Start Num: 28

Candidate Starts for Fascinus_43:

(9, 34887), (20, 34848), (Start: 28 @34815 has 8 MA's), (54, 34704), (59, 34689), (106, 34365), (111, 34329),

Gene: Fayely_50 Start: 33652, Stop: 33137, Start Num: 17

Candidate Starts for Fayely_50:

(Start: 13 @33667 has 62 MA's), (Start: 17 @33652 has 223 MA's), (46, 33559), (58, 33535), (68, 33457), (87, 33394), (103, 33244),

Gene: Fernando_53 Start: 33856, Stop: 33266, Start Num: 17

Candidate Starts for Fernando_53:

(Start: 17 @33856 has 223 MA's), (Start: 19 @33850 has 1 MA's), (55, 33706), (59, 33697), (64, 33670), (73, 33586), (103, 33382), (109, 33334),

Gene: Fibonacci_50 Start: 32814, Stop: 32251, Start Num: 17

Candidate Starts for Fibonacci_50:

(Start: 17 @32814 has 223 MA's), (56, 32685), (91, 32520), (103, 32364),

Gene: FiringLine_50 Start: 33631, Stop: 33110, Start Num: 17

Candidate Starts for FiringLine_50:

(Start: 13 @33646 has 62 MA's), (Start: 17 @33631 has 223 MA's), (58, 33517), (63, 33490), (66, 33445), (68, 33439), (70, 33415), (87, 33376), (90, 33367), (103, 33220), (106, 33202), (109, 33172),

Gene: First_0052 Start: 34110, Stop: 33565, Start Num: 13

Candidate Starts for First_0052:

(Start: 13 @34110 has 62 MA's), (Start: 17 @34095 has 223 MA's), (52, 33984), (57, 33969), (63, 33939), (70, 33864), (87, 33825), (103, 33675), (106, 33657), (109, 33627),

Gene: Flare16_50 Start: 33718, Stop: 33194, Start Num: 13

Candidate Starts for Flare16_50:

(Start: 13 @33718 has 62 MA's), (Start: 17 @33703 has 223 MA's), (40, 33634), (58, 33598), (63, 33571), (66, 33526), (68, 33520), (70, 33496), (73, 33484), (87, 33457), (90, 33448), (93, 33430), (103, 33307),

Gene: Flaverint_51 Start: 33272, Stop: 32703, Start Num: 17

Candidate Starts for Flaverint_51:

(Start: 17 @33272 has 223 MA's), (56, 33137), (91, 32972), (103, 32816),

Gene: Gail_54 Start: 34735, Stop: 34187, Start Num: 13

Candidate Starts for Gail_54:

(Start: 13 @34735 has 62 MA's), (Start: 17 @34720 has 223 MA's), (42, 34630), (58, 34594), (63, 34567), (66, 34522), (68, 34516), (70, 34492), (87, 34453), (90, 34444), (103, 34297), (109, 34252),

Gene: Garak_54 Start: 32912, Stop: 32364, Start Num: 17

Candidate Starts for Garak_54:

(6, 33026), (7, 33011), (Start: 13 @32927 has 62 MA's), (Start: 17 @32912 has 223 MA's), (67, 32702), (68, 32699), (87, 32636), (90, 32627), (103, 32474), (104, 32471),

Gene: GaugeLDP_48 Start: 33987, Stop: 33457, Start Num: 13

Candidate Starts for GaugeLDP_48:

(Start: 13 @33987 has 62 MA's), (Start: 17 @33972 has 223 MA's), (50, 33888), (59, 33867), (69, 33780), (73, 33759), (85, 33729), (87, 33726), (103, 33567), (106, 33549), (109, 33522),

Gene: Gemma_52 Start: 33745, Stop: 33155, Start Num: 17

Candidate Starts for Gemma_52:

(Start: 17 @33745 has 223 MA's), (Start: 19 @33739 has 1 MA's), (55, 33595), (59, 33586), (64, 33559), (73, 33475), (103, 33271), (109, 33223),

Gene: Georgie2_51 Start: 33676, Stop: 33155, Start Num: 17

Candidate Starts for Georgie2_51:

(Start: 13 @33691 has 62 MA's), (Start: 17 @33676 has 223 MA's), (58, 33562), (63, 33535), (66, 33490), (68, 33484), (70, 33460), (87, 33421), (90, 33412), (103, 33265), (106, 33247), (109, 33217),

Gene: Gilberta_51 Start: 33262, Stop: 32693, Start Num: 17

Candidate Starts for Gilberta_51:

(Start: 17 @33262 has 223 MA's), (56, 33127), (91, 32962), (103, 32806),

Gene: GingkoMaracino_53 Start: 33742, Stop: 33152, Start Num: 17

Candidate Starts for GingkoMaracino_53:

(Start: 17 @33742 has 223 MA's), (Start: 19 @33736 has 1 MA's), (55, 33592), (59, 33583), (64, 33556), (73, 33472), (103, 33268), (109, 33220),

Gene: Gladiator_50 Start: 32270, Stop: 31527, Start Num: 1

Candidate Starts for Gladiator_50:

(Start: 1 @32270 has 4 MA's), (2, 32255), (3, 32234), (4, 32204), (5, 32198), (Start: 17 @32072 has 223 MA's), (67, 31862), (68, 31859), (87, 31796), (90, 31787), (103, 31637), (104, 31634),

Gene: Gollum_39 Start: 29796, Stop: 29272, Start Num: 30

Candidate Starts for Gollum_39:

(Start: 30 @29796 has 36 MA's), (55, 29691), (103, 29379), (105, 29370), (106, 29361), (109, 29331),

Gene: GreedyLawyer_52 Start: 32793, Stop: 32206, Start Num: 13

Candidate Starts for GreedyLawyer_52:

(Start: 13 @32793 has 62 MA's), (Start: 17 @32778 has 223 MA's), (52, 32667), (59, 32649), (92, 32487), (99, 32460), (103, 32316), (104, 32313),

Gene: Grif_53 Start: 33931, Stop: 33341, Start Num: 17

Candidate Starts for Grif_53:

(Start: 17 @33931 has 223 MA's), (Start: 19 @33925 has 1 MA's), (55, 33781), (59, 33772), (64, 33745), (73, 33661), (103, 33457), (109, 33409),

Gene: Groupthink_54 Start: 33749, Stop: 33159, Start Num: 17

Candidate Starts for Groupthink_54:

(Start: 17 @33749 has 223 MA's), (Start: 19 @33743 has 1 MA's), (55, 33599), (59, 33590), (64, 33563), (73, 33479), (103, 33275), (109, 33227),

Gene: Grub_53 Start: 33848, Stop: 33258, Start Num: 17

Candidate Starts for Grub_53:

(Start: 17 @33848 has 223 MA's), (Start: 19 @33842 has 1 MA's), (55, 33698), (59, 33689), (64, 33662), (73, 33578), (103, 33374), (109, 33326),

Gene: Grum1_53 Start: 33856, Stop: 33266, Start Num: 17

Candidate Starts for Grum1_53:

(Start: 17 @33856 has 223 MA's), (Start: 19 @33850 has 1 MA's), (55, 33706), (59, 33697), (64, 33670), (73, 33586), (103, 33382), (109, 33334),

Gene: Gruunaga_52 Start: 32771, Stop: 32226, Start Num: 17

Candidate Starts for Gruunaga_52:

(Start: 1 @32969 has 4 MA's), (2, 32954), (3, 32933), (4, 32903), (5, 32897), (Start: 17 @32771 has 223 MA's), (67, 32561), (68, 32558), (87, 32495), (90, 32486), (103, 32336), (104, 32333),

Gene: GtownJaz_53 Start: 33858, Stop: 33268, Start Num: 17

Candidate Starts for GtownJaz_53:

(Start: 17 @33858 has 223 MA's), (Start: 19 @33852 has 1 MA's), (55, 33708), (59, 33699), (64, 33672), (73, 33588), (103, 33384), (109, 33336),

Gene: Gyzlar_43 Start: 33635, Stop: 33096, Start Num: 28

Candidate Starts for Gyzlar_43:

(9, 33707), (20, 33668), (Start: 28 @33635 has 8 MA's), (54, 33524), (59, 33509), (106, 33185), (111, 33149),

Gene: HINdeR_45 Start: 34149, Stop: 33646, Start Num: 32
Candidate Starts for HINdeR_45:
(11, 34242), (14, 34227), (26, 34182), (Start: 32 @34149 has 4 MA's), (57, 34044), (65, 34005), (88, 33894), (110, 33693),

Gene: Hammer_53 Start: 32552, Stop: 31803, Start Num: 1
Candidate Starts for Hammer_53:
(Start: 1 @32552 has 4 MA's), (2, 32537), (3, 32516), (4, 32486), (5, 32480), (Start: 17 @32354 has 223 MA's), (67, 32144), (68, 32141), (87, 32078), (90, 32069), (103, 31913), (104, 31910),

Gene: Harlequin_39 Start: 29803, Stop: 29279, Start Num: 30
Candidate Starts for Harlequin_39:
(Start: 30 @29803 has 36 MA's), (55, 29698), (103, 29386), (105, 29377), (106, 29368), (109, 29338),

Gene: HarryHoudini_51 Start: 34130, Stop: 33618, Start Num: 17
Candidate Starts for HarryHoudini_51:
(Start: 13 @34145 has 62 MA's), (Start: 17 @34130 has 223 MA's), (40, 34061), (58, 34025), (63, 33998), (66, 33953), (68, 33947), (70, 33923), (73, 33911), (87, 33884), (90, 33875), (93, 33857), (103, 33731),

Gene: HashRod_54 Start: 33884, Stop: 33297, Start Num: 17
Candidate Starts for HashRod_54:
(Start: 17 @33884 has 223 MA's), (Start: 19 @33878 has 1 MA's), (55, 33740), (59, 33731), (64, 33704), (65, 33701), (69, 33641), (73, 33620), (103, 33413), (109, 33365),

Gene: HaveUMetTed_54 Start: 33734, Stop: 33141, Start Num: 17
Candidate Starts for HaveUMetTed_54:
(Start: 17 @33734 has 223 MA's), (Start: 19 @33728 has 1 MA's), (55, 33581), (59, 33572), (64, 33545), (73, 33461), (103, 33257), (109, 33209),

Gene: Heffalump_49 Start: 34422, Stop: 33904, Start Num: 17
Candidate Starts for Heffalump_49:
(Start: 13 @34437 has 62 MA's), (Start: 17 @34422 has 223 MA's), (58, 34308), (63, 34281), (68, 34230), (70, 34206), (87, 34167), (90, 34158), (103, 34014), (106, 33996), (109, 33966),

Gene: Heliosoles_52 Start: 33752, Stop: 33162, Start Num: 17
Candidate Starts for Heliosoles_52:
(Start: 17 @33752 has 223 MA's), (Start: 19 @33746 has 1 MA's), (55, 33602), (59, 33593), (64, 33566), (73, 33482), (103, 33278), (109, 33230),

Gene: Helmet_54 Start: 32912, Stop: 32364, Start Num: 17
Candidate Starts for Helmet_54:
(6, 33026), (7, 33011), (Start: 13 @32927 has 62 MA's), (Start: 17 @32912 has 223 MA's), (67, 32702), (68, 32699), (87, 32636), (90, 32627), (103, 32474), (104, 32471),

Gene: Herbertwm_50 Start: 33563, Stop: 32988, Start Num: 17
Candidate Starts for Herbertwm_50:
(Start: 13 @33578 has 62 MA's), (Start: 17 @33563 has 223 MA's), (45, 33458), (55, 33437), (65, 33407), (67, 33365), (88, 33296), (99, 33248), (103, 33095),

Gene: Hercules11_53 Start: 33865, Stop: 33275, Start Num: 17
Candidate Starts for Hercules11_53:

(Start: 17 @33865 has 223 MA's), (Start: 19 @33859 has 1 MA's), (55, 33715), (59, 33706), (64, 33679), (73, 33595), (103, 33391), (109, 33343),

Gene: Hexamo_52 Start: 32557, Stop: 31985, Start Num: 13

Candidate Starts for Hexamo_52:

(6, 32656), (7, 32641), (Start: 13 @32557 has 62 MA's), (Start: 17 @32542 has 223 MA's), (67, 32332), (68, 32329), (87, 32266), (90, 32257), (103, 32095), (104, 32092),

Gene: Hiro_39 Start: 30058, Stop: 29534, Start Num: 30

Candidate Starts for Hiro_39:

(Start: 30 @30058 has 36 MA's), (55, 29953), (103, 29641), (105, 29632), (106, 29623), (109, 29593),

Gene: Hoot_47 Start: 30644, Stop: 30057, Start Num: 13

Candidate Starts for Hoot_47:

(Start: 13 @30644 has 62 MA's), (Start: 17 @30629 has 223 MA's), (52, 30518), (59, 30500), (92, 30338), (99, 30311), (103, 30167), (104, 30164),

Gene: HortumSL17_50 Start: 33634, Stop: 33104, Start Num: 13

Candidate Starts for HortumSL17_50:

(Start: 13 @33634 has 62 MA's), (Start: 17 @33619 has 223 MA's), (46, 33526), (58, 33502), (68, 33424), (87, 33361), (103, 33211),

Gene: Hutc2_50 Start: 32814, Stop: 32251, Start Num: 17

Candidate Starts for Hutc2_50:

(Start: 17 @32814 has 223 MA's), (56, 32685), (91, 32520), (103, 32364),

Gene: Ibantik_26 Start: 11875, Stop: 11306, Start Num: 31

Candidate Starts for Ibantik_26:

(Start: 28 @11887 has 8 MA's), (Start: 31 @11875 has 1 MA's), (52, 11779), (107, 11383), (108, 11380), (112, 11338),

Gene: Indra_55 Start: 32928, Stop: 32365, Start Num: 13

Candidate Starts for Indra_55:

(6, 33027), (7, 33012), (Start: 13 @32928 has 62 MA's), (Start: 17 @32913 has 223 MA's), (67, 32703), (68, 32700), (87, 32637), (90, 32628), (103, 32475), (104, 32472),

Gene: Insomnia_51 Start: 33325, Stop: 32756, Start Num: 17

Candidate Starts for Insomnia_51:

(Start: 17 @33325 has 223 MA's), (56, 33190), (91, 33025), (103, 32869),

Gene: IronMan_50 Start: 34814, Stop: 34269, Start Num: 17

Candidate Starts for IronMan_50:

(Start: 13 @34829 has 62 MA's), (Start: 17 @34814 has 223 MA's), (65, 34685), (67, 34643), (88, 34574), (92, 34553), (99, 34526), (103, 34376), (106, 34358),

Gene: Isiphiwo_50 Start: 32318, Stop: 31740, Start Num: 17

Candidate Starts for Isiphiwo_50:

(Start: 13 @32333 has 62 MA's), (Start: 17 @32318 has 223 MA's), (52, 32207), (59, 32189), (92, 32027), (99, 32000), (103, 31850), (104, 31847),

Gene: Iwokeuplikedis_53 Start: 33759, Stop: 33244, Start Num: 17

Candidate Starts for Iwokeuplikedis_53:

(Start: 13 @33774 has 62 MA's), (Start: 17 @33759 has 223 MA's), (58, 33648), (63, 33621), (66, 33576), (68, 33570), (70, 33546), (87, 33507), (103, 33351), (106, 33333),

Gene: JHC117_53 Start: 33855, Stop: 33265, Start Num: 17

Candidate Starts for JHC117_53:

(Start: 17 @33855 has 223 MA's), (Start: 19 @33849 has 1 MA's), (55, 33705), (59, 33696), (64, 33669), (73, 33585), (103, 33381), (109, 33333),

Gene: JSwag_53 Start: 32482, Stop: 31940, Start Num: 24

Candidate Starts for JSwag_53:

(Start: 24 @32482 has 11 MA's), (25, 32476), (51, 32371), (60, 32344), (61, 32341), (74, 32230), (83, 32209), (88, 32200), (90, 32191), (103, 32044), (109, 31999),

Gene: Jaan_50 Start: 34986, Stop: 34435, Start Num: 17

Candidate Starts for Jaan_50:

(Start: 13 @35001 has 62 MA's), (Start: 17 @34986 has 223 MA's), (65, 34854), (67, 34812), (80, 34755), (88, 34743), (92, 34722), (99, 34695), (103, 34542),

Gene: Jabith_51 Start: 33326, Stop: 32757, Start Num: 17

Candidate Starts for Jabith_51:

(Start: 17 @33326 has 223 MA's), (56, 33191), (91, 33026), (103, 32870),

Gene: Jeeves_54 Start: 33492, Stop: 32962, Start Num: 17

Candidate Starts for Jeeves_54:

(Start: 13 @33507 has 62 MA's), (Start: 17 @33492 has 223 MA's), (42, 33405), (58, 33372), (63, 33345), (66, 33300), (68, 33294), (70, 33270), (87, 33231), (90, 33222), (103, 33072), (109, 33027),

Gene: Jeffabunny_52 Start: 32584, Stop: 32021, Start Num: 13

Candidate Starts for Jeffabunny_52:

(6, 32683), (7, 32668), (Start: 13 @32584 has 62 MA's), (Start: 17 @32569 has 223 MA's), (67, 32359), (68, 32356), (87, 32293), (90, 32284), (103, 32131), (104, 32128),

Gene: JenCasNa_54 Start: 33856, Stop: 33266, Start Num: 17

Candidate Starts for JenCasNa_54:

(Start: 17 @33856 has 223 MA's), (Start: 19 @33850 has 1 MA's), (55, 33706), (59, 33697), (64, 33670), (73, 33586), (103, 33382), (109, 33334),

Gene: JeppNRM_54 Start: 33750, Stop: 33160, Start Num: 17

Candidate Starts for JeppNRM_54:

(Start: 17 @33750 has 223 MA's), (Start: 19 @33744 has 1 MA's), (55, 33600), (59, 33591), (64, 33564), (73, 33480), (103, 33276), (109, 33228),

Gene: Jerm_52 Start: 34210, Stop: 33683, Start Num: 17

Candidate Starts for Jerm_52:

(Start: 13 @34225 has 62 MA's), (Start: 17 @34210 has 223 MA's), (40, 34123), (58, 34087), (63, 34060), (66, 34015), (68, 34009), (70, 33985), (87, 33946), (103, 33793), (106, 33775), (109, 33745),

Gene: Jester_39 Start: 29734, Stop: 29210, Start Num: 30

Candidate Starts for Jester_39:

(Start: 30 @29734 has 36 MA's), (55, 29629), (103, 29317), (105, 29308), (106, 29299), (109, 29269),

Gene: JewelBug_53 Start: 32963, Stop: 32376, Start Num: 13

Candidate Starts for JewelBug_53:

(Start: 13 @32963 has 62 MA's), (Start: 17 @32948 has 223 MA's), (52, 32837), (59, 32819), (92, 32657), (99, 32630), (103, 32486), (104, 32483),

Gene: Jobu08_52 Start: 33688, Stop: 33098, Start Num: 17

Candidate Starts for Jobu08_52:

(Start: 17 @33688 has 223 MA's), (Start: 19 @33682 has 1 MA's), (55, 33538), (59, 33529), (64, 33502), (73, 33418), (103, 33214), (109, 33166),

Gene: Jordennis_52 Start: 32489, Stop: 31890, Start Num: 13

Candidate Starts for Jordennis_52:

(Start: 13 @32489 has 62 MA's), (Start: 17 @32474 has 223 MA's), (52, 32351), (59, 32333), (92, 32171), (99, 32144), (103, 32000), (104, 31997),

Gene: Jorgensen_48 Start: 35503, Stop: 35012, Start Num: 28

Candidate Starts for Jorgensen_48:

(Start: 28 @35503 has 8 MA's), (29, 35497), (44, 35422), (59, 35401), (88, 35269), (90, 35260), (106, 35101), (111, 35065),

Gene: Joselito_51 Start: 33271, Stop: 32702, Start Num: 17

Candidate Starts for Joselito_51:

(Start: 17 @33271 has 223 MA's), (56, 33136), (91, 32971), (103, 32815),

Gene: JoshKayV_52 Start: 34313, Stop: 33765, Start Num: 13

Candidate Starts for JoshKayV_52:

(Start: 13 @34313 has 62 MA's), (Start: 17 @34298 has 223 MA's), (58, 34169), (63, 34142), (70, 34067), (87, 34028), (90, 34019), (103, 33875), (106, 33857), (109, 33827),

Gene: Journey13_44 Start: 32029, Stop: 31511, Start Num: 13

Candidate Starts for Journey13_44:

(Start: 13 @32029 has 62 MA's), (Start: 17 @32014 has 223 MA's), (18, 32011), (58, 31906), (63, 31879), (66, 31834), (68, 31828), (70, 31804), (87, 31765), (103, 31615), (106, 31597),

Gene: Jsquared_48 Start: 32621, Stop: 32070, Start Num: 17

Candidate Starts for Jsquared_48:

(Start: 17 @32621 has 223 MA's), (41, 32543), (65, 32477), (84, 32372), (88, 32366), (92, 32345), (94, 32336), (99, 32318), (103, 32180),

Gene: KADY_53 Start: 33884, Stop: 33297, Start Num: 17

Candidate Starts for KADY_53:

(Start: 17 @33884 has 223 MA's), (Start: 19 @33878 has 1 MA's), (55, 33740), (59, 33731), (64, 33704), (65, 33701), (69, 33641), (73, 33620), (103, 33413), (109, 33365),

Gene: Kalb97_54 Start: 33748, Stop: 33158, Start Num: 17

Candidate Starts for Kalb97_54:

(Start: 17 @33748 has 223 MA's), (Start: 19 @33742 has 1 MA's), (55, 33598), (59, 33589), (64, 33562), (73, 33478), (103, 33274), (109, 33226),

Gene: Kalnoky_54 Start: 33746, Stop: 33156, Start Num: 17

Candidate Starts for Kalnoky_54:

(Start: 17 @33746 has 223 MA's), (Start: 19 @33740 has 1 MA's), (55, 33596), (59, 33587), (64, 33560), (73, 33476), (103, 33272), (109, 33224),

Gene: Kalpine_48 Start: 33928, Stop: 33407, Start Num: 17

Candidate Starts for Kalpine_48:

(Start: 13 @33943 has 62 MA's), (Start: 17 @33928 has 223 MA's), (63, 33781), (66, 33736), (68, 33730), (70, 33706), (87, 33667), (103, 33517), (106, 33499), (109, 33469),

Gene: Kazan_53 Start: 32784, Stop: 32212, Start Num: 17

Candidate Starts for Kazan_53:

(Start: 13 @32799 has 62 MA's), (Start: 17 @32784 has 223 MA's), (52, 32673), (59, 32655), (92, 32493), (99, 32466), (103, 32322), (104, 32319),

Gene: Kerberos_52 Start: 33468, Stop: 32890, Start Num: 17

Candidate Starts for Kerberos_52:

(Start: 13 @33483 has 62 MA's), (Start: 17 @33468 has 223 MA's), (55, 33351), (57, 33345), (63, 33321), (67, 33273), (71, 33243), (94, 33174), (97, 33165), (99, 33156), (103, 33003),

Gene: Keziacharles14_50 Start: 34743, Stop: 34183, Start Num: 17

Candidate Starts for Keziacharles14_50:

(Start: 13 @34758 has 62 MA's), (Start: 17 @34743 has 223 MA's), (43, 34641), (45, 34638), (55, 34620), (99, 34431), (103, 34290),

Gene: KingCyrus_52 Start: 35409, Stop: 34882, Start Num: 17

Candidate Starts for KingCyrus_52:

(Start: 13 @35424 has 62 MA's), (Start: 17 @35409 has 223 MA's), (40, 35322), (58, 35286), (63, 35259), (66, 35214), (68, 35208), (70, 35184), (87, 35145), (103, 34992), (106, 34974), (109, 34944),

Gene: Kipper29_52 Start: 32812, Stop: 32225, Start Num: 13

Candidate Starts for Kipper29_52:

(Start: 13 @32812 has 62 MA's), (Start: 17 @32797 has 223 MA's), (52, 32686), (59, 32668), (92, 32506), (99, 32479), (103, 32335), (104, 32332),

Gene: Koduck_51 Start: 32906, Stop: 32382, Start Num: 17

Candidate Starts for Koduck_51:

(Start: 13 @32921 has 62 MA's), (Start: 17 @32906 has 223 MA's), (40, 32819), (54, 32798), (58, 32786), (63, 32759), (66, 32714), (68, 32708), (70, 32684), (87, 32645), (103, 32492),

Gene: Koko_53 Start: 32908, Stop: 32351, Start Num: 17

Candidate Starts for Koko_53:

(Start: 1 @33106 has 4 MA's), (2, 33091), (3, 33070), (4, 33040), (5, 33034), (Start: 17 @32908 has 223 MA's), (67, 32698), (68, 32695), (87, 32632), (90, 32623), (103, 32461), (104, 32458),

Gene: Krishelle_39 Start: 30158, Stop: 29634, Start Num: 30

Candidate Starts for Krishelle_39:

(Start: 30 @30158 has 36 MA's), (55, 30053), (103, 29741), (105, 29732), (106, 29723), (109, 29693),

Gene: L5_49 Start: 32996, Stop: 32457, Start Num: 13

Candidate Starts for L5_49:

(Start: 13 @32996 has 62 MA's), (Start: 17 @32981 has 223 MA's), (40, 32894), (54, 32873), (58, 32861), (63, 32834), (66, 32789), (68, 32783), (70, 32759), (87, 32720), (103, 32567),

Gene: LBerry_54 Start: 33860, Stop: 33270, Start Num: 17

Candidate Starts for LBerry_54:

(Start: 17 @33860 has 223 MA's), (Start: 19 @33854 has 1 MA's), (55, 33710), (59, 33701), (64, 33674), (73, 33590), (103, 33386), (109, 33338),

Gene: LadyBird_55 Start: 34524, Stop: 34000, Start Num: 17

Candidate Starts for LadyBird_55:

(Start: 13 @34539 has 62 MA's), (Start: 17 @34524 has 223 MA's), (52, 34419), (63, 34374), (70, 34299), (87, 34260), (103, 34110), (106, 34092), (109, 34062),

Gene: Landor_50 Start: 34892, Stop: 34347, Start Num: 17

Candidate Starts for Landor_50:

(Start: 13 @34907 has 62 MA's), (Start: 17 @34892 has 223 MA's), (65, 34763), (67, 34721), (80, 34664), (88, 34652), (92, 34631), (99, 34604), (103, 34454), (106, 34436),

Gene: Larenn_49 Start: 33825, Stop: 33295, Start Num: 13

Candidate Starts for Larenn_49:

(Start: 13 @33825 has 62 MA's), (Start: 17 @33810 has 223 MA's), (46, 33738), (58, 33705), (63, 33678), (68, 33627), (70, 33603), (73, 33591), (87, 33564), (103, 33408), (106, 33390),

Gene: LarryKay_53 Start: 33886, Stop: 33299, Start Num: 17

Candidate Starts for LarryKay_53:

(Start: 17 @33886 has 223 MA's), (Start: 19 @33880 has 1 MA's), (55, 33742), (59, 33733), (64, 33706), (65, 33703), (69, 33643), (73, 33622), (103, 33415), (109, 33367),

Gene: LastResort_53 Start: 32534, Stop: 31992, Start Num: 24

Candidate Starts for LastResort_53:

(Start: 24 @32534 has 11 MA's), (25, 32528), (51, 32423), (60, 32396), (61, 32393), (74, 32282), (83, 32261), (88, 32252), (90, 32243), (103, 32096), (109, 32051),

Gene: Leogania_50 Start: 34849, Stop: 34322, Start Num: 17

Candidate Starts for Leogania_50:

(Start: 13 @34864 has 62 MA's), (Start: 17 @34849 has 223 MA's), (40, 34765), (58, 34723), (63, 34696), (66, 34651), (68, 34645), (70, 34621), (73, 34609), (87, 34582), (103, 34432), (106, 34414), (109, 34384),

Gene: Leviathan_52 Start: 34282, Stop: 33740, Start Num: 13

Candidate Starts for Leviathan_52:

(Start: 13 @34282 has 62 MA's), (Start: 17 @34267 has 223 MA's), (40, 34180), (58, 34144), (63, 34117), (66, 34072), (68, 34066), (70, 34042), (87, 34003), (103, 33850), (106, 33832), (109, 33802),

Gene: LilTurb_51 Start: 34106, Stop: 33573, Start Num: 13

Candidate Starts for LilTurb_51:

(Start: 13 @34106 has 62 MA's), (Start: 17 @34091 has 223 MA's), (40, 34007), (58, 33971), (66, 33899), (68, 33893), (70, 33869), (71, 33866), (73, 33857), (87, 33830), (103, 33683), (106, 33665), (109, 33635),

Gene: Lilbunny_50 Start: 32543, Stop: 31995, Start Num: 17

Candidate Starts for Lilbunny_50:

(7, 32642), (8, 32639), (Start: 13 @32558 has 62 MA's), (Start: 17 @32543 has 223 MA's), (67, 32333), (68, 32330), (87, 32267), (90, 32258), (103, 32105), (104, 32102),

Gene: Lilith_54 Start: 33849, Stop: 33259, Start Num: 17

Candidate Starts for Lilith_54:

(Start: 17 @33849 has 223 MA's), (Start: 19 @33843 has 1 MA's), (55, 33699), (59, 33690), (64, 33663), (73, 33579), (103, 33375), (109, 33327),

Gene: Lillie_39 Start: 29798, Stop: 29274, Start Num: 30

Candidate Starts for Lillie_39:

(Start: 30 @29798 has 36 MA's), (55, 29693), (103, 29381), (105, 29372), (106, 29363), (109, 29333),

Gene: Lokk_47 Start: 33016, Stop: 32498, Start Num: 17

Candidate Starts for Lokk_47:

(10, 33043), (Start: 13 @33031 has 62 MA's), (Start: 17 @33016 has 223 MA's), (40, 32944), (58, 32908), (60, 32902), (63, 32881), (68, 32830), (70, 32806), (73, 32794), (87, 32767), (103, 32608), (106, 32590), (109, 32560),

Gene: LoneWolf_51 Start: 33659, Stop: 33093, Start Num: 17

Candidate Starts for LoneWolf_51:

(Start: 13 @33674 has 62 MA's), (Start: 17 @33659 has 223 MA's), (43, 33557), (45, 33554), (69, 33443), (99, 33344), (103, 33200),

Gene: Looper_54 Start: 32511, Stop: 31969, Start Num: 24

Candidate Starts for Looper_54:

(Start: 24 @32511 has 11 MA's), (25, 32505), (51, 32400), (60, 32373), (61, 32370), (74, 32259), (83, 32238), (88, 32229), (90, 32220), (103, 32073), (109, 32028),

Gene: Loser_52 Start: 34655, Stop: 34110, Start Num: 13

Candidate Starts for Loser_52:

(Start: 13 @34655 has 62 MA's), (Start: 17 @34640 has 223 MA's), (58, 34520), (63, 34493), (66, 34448), (68, 34442), (70, 34418), (85, 34382), (87, 34379), (90, 34370), (103, 34223), (106, 34205), (109, 34175),

Gene: Louie6_52 Start: 33885, Stop: 33298, Start Num: 17

Candidate Starts for Louie6_52:

(Start: 17 @33885 has 223 MA's), (Start: 19 @33879 has 1 MA's), (55, 33741), (59, 33732), (64, 33705), (65, 33702), (69, 33642), (73, 33621), (103, 33414), (109, 33366),

Gene: Luchador_54 Start: 35277, Stop: 34750, Start Num: 17

Candidate Starts for Luchador_54:

(Start: 13 @35292 has 62 MA's), (Start: 17 @35277 has 223 MA's), (42, 35190), (58, 35157), (63, 35130), (66, 35085), (68, 35079), (70, 35055), (87, 35016), (90, 35007), (103, 34860), (109, 34815),

Gene: Lucivia_51 Start: 33320, Stop: 32751, Start Num: 17

Candidate Starts for Lucivia_51:

(Start: 17 @33320 has 223 MA's), (56, 33185), (91, 33020), (103, 32864),

Gene: Lucyedi_51 Start: 33497, Stop: 32934, Start Num: 13

Candidate Starts for Lucyedi_51:

(Start: 13 @33497 has 62 MA's), (Start: 17 @33482 has 223 MA's), (47, 33365), (66, 33263), (68, 33257), (87, 33194), (90, 33185), (103, 33041),

Gene: LugYA_56 Start: 33857, Stop: 33267, Start Num: 17

Candidate Starts for LugYA_56:

(Start: 17 @33857 has 223 MA's), (Start: 19 @33851 has 1 MA's), (55, 33707), (59, 33698), (64, 33671), (73, 33587), (103, 33383), (109, 33335),

Gene: MaCh_51 Start: 33250, Stop: 32684, Start Num: 17

Candidate Starts for MaCh_51:

(Start: 17 @33250 has 223 MA's), (62, 33097), (91, 32956), (103, 32797),

Gene: Mabel_50 Start: 32855, Stop: 32286, Start Num: 17
Candidate Starts for Mabel_50:
(Start: 17 @32855 has 223 MA's), (56, 32720), (91, 32555), (103, 32399),

Gene: MadMarie_53 Start: 33858, Stop: 33268, Start Num: 17
Candidate Starts for MadMarie_53:
(Start: 17 @33858 has 223 MA's), (Start: 19 @33852 has 1 MA's), (55, 33708), (59, 33699), (64, 33672), (73, 33588), (103, 33384), (109, 33336),

Gene: Mainiac_53 Start: 33850, Stop: 33260, Start Num: 17
Candidate Starts for Mainiac_53:
(Start: 17 @33850 has 223 MA's), (Start: 19 @33844 has 1 MA's), (55, 33700), (59, 33691), (64, 33664), (73, 33580), (103, 33376), (109, 33328),

Gene: Malec_50 Start: 34392, Stop: 33859, Start Num: 13
Candidate Starts for Malec_50:
(Start: 13 @34392 has 62 MA's), (Start: 17 @34377 has 223 MA's), (46, 34305), (58, 34272), (63, 34245), (68, 34194), (70, 34170), (73, 34158), (87, 34131), (103, 33972), (106, 33954),

Gene: Malinsilva_55 Start: 33848, Stop: 33258, Start Num: 17
Candidate Starts for Malinsilva_55:
(Start: 17 @33848 has 223 MA's), (Start: 19 @33842 has 1 MA's), (55, 33698), (59, 33689), (64, 33662), (73, 33578), (103, 33374), (109, 33326),

Gene: Maminiaina_49 Start: 33426, Stop: 32860, Start Num: 17
Candidate Starts for Maminiaina_49:
(Start: 13 @33441 has 62 MA's), (Start: 17 @33426 has 223 MA's), (43, 33324), (45, 33321), (69, 33210), (99, 33111), (103, 32967),

Gene: Manu_53 Start: 33749, Stop: 33159, Start Num: 17
Candidate Starts for Manu_53:
(Start: 17 @33749 has 223 MA's), (Start: 19 @33743 has 1 MA's), (55, 33599), (59, 33590), (64, 33563), (73, 33479), (103, 33275), (109, 33227),

Gene: MarQuardt_53 Start: 33858, Stop: 33268, Start Num: 17
Candidate Starts for MarQuardt_53:
(Start: 17 @33858 has 223 MA's), (Start: 19 @33852 has 1 MA's), (55, 33708), (59, 33699), (64, 33672), (73, 33588), (103, 33384), (109, 33336),

Gene: Marchy_40 Start: 31968, Stop: 31489, Start Num: 28
Candidate Starts for Marchy_40:
(Start: 28 @31968 has 8 MA's), (29, 31962), (44, 31887), (59, 31866), (68, 31797), (88, 31734), (90, 31725), (106, 31578), (111, 31542),

Gene: Marie_53 Start: 33856, Stop: 33266, Start Num: 17
Candidate Starts for Marie_53:
(Start: 17 @33856 has 223 MA's), (Start: 19 @33850 has 1 MA's), (55, 33706), (59, 33697), (64, 33670), (73, 33586), (103, 33382), (109, 33334),

Gene: Marius_54 Start: 33746, Stop: 33156, Start Num: 17
Candidate Starts for Marius_54:
(Start: 17 @33746 has 223 MA's), (Start: 19 @33740 has 1 MA's), (55, 33596), (59, 33587), (64, 33560), (73, 33476), (103, 33272), (109, 33224),

Gene: Maroc7_45 Start: 35124, Stop: 34585, Start Num: 28

Candidate Starts for Maroc7_45:

(9, 35196), (20, 35157), (Start: 28 @35124 has 8 MA's), (54, 35013), (59, 34998), (106, 34674), (111, 34638),

Gene: McFly_52 Start: 32778, Stop: 32206, Start Num: 17

Candidate Starts for McFly_52:

(Start: 13 @32793 has 62 MA's), (Start: 17 @32778 has 223 MA's), (52, 32667), (59, 32649), (92, 32487), (99, 32460), (103, 32316), (104, 32313),

Gene: Methuselah_49 Start: 33880, Stop: 33293, Start Num: 17

Candidate Starts for Methuselah_49:

(Start: 17 @33880 has 223 MA's), (Start: 19 @33874 has 1 MA's), (55, 33736), (59, 33727), (64, 33700), (65, 33697), (69, 33637), (73, 33616), (103, 33409), (109, 33361),

Gene: Microwolf_53 Start: 33872, Stop: 33267, Start Num: 17

Candidate Starts for Microwolf_53:

(Start: 17 @33872 has 223 MA's), (Start: 19 @33866 has 1 MA's), (55, 33722), (59, 33713), (64, 33686), (73, 33602), (103, 33383), (109, 33335),

Gene: MiculUcigas_50 Start: 33618, Stop: 33094, Start Num: 13

Candidate Starts for MiculUcigas_50:

(Start: 13 @33618 has 62 MA's), (Start: 17 @33603 has 223 MA's), (40, 33534), (58, 33498), (63, 33471), (66, 33426), (68, 33420), (70, 33396), (73, 33384), (87, 33357), (90, 33348), (93, 33330), (103, 33207),

Gene: Miko_47 Start: 33800, Stop: 33279, Start Num: 17

Candidate Starts for Miko_47:

(10, 33827), (Start: 13 @33815 has 62 MA's), (Start: 17 @33800 has 223 MA's), (40, 33728), (58, 33692), (60, 33686), (63, 33665), (68, 33614), (70, 33590), (73, 33578), (87, 33551), (103, 33392), (106, 33374),

Gene: Misomonster_54 Start: 33883, Stop: 33296, Start Num: 17

Candidate Starts for Misomonster_54:

(Start: 17 @33883 has 223 MA's), (Start: 19 @33877 has 1 MA's), (55, 33739), (59, 33730), (64, 33703), (65, 33700), (69, 33640), (73, 33619), (103, 33412), (109, 33364),

Gene: MissWhite_49 Start: 32171, Stop: 31665, Start Num: 17

Candidate Starts for MissWhite_49:

(Start: 13 @32186 has 62 MA's), (Start: 17 @32171 has 223 MA's), (58, 32063), (67, 31988), (68, 31985), (70, 31961), (87, 31922), (103, 31775), (106, 31757),

Gene: MoneyMay_53 Start: 33856, Stop: 33266, Start Num: 17

Candidate Starts for MoneyMay_53:

(Start: 17 @33856 has 223 MA's), (Start: 19 @33850 has 1 MA's), (55, 33706), (59, 33697), (64, 33670), (73, 33586), (103, 33382), (109, 33334),

Gene: MuchMore_56 Start: 33848, Stop: 33258, Start Num: 17

Candidate Starts for MuchMore_56:

(Start: 17 @33848 has 223 MA's), (Start: 19 @33842 has 1 MA's), (55, 33698), (59, 33689), (64, 33662), (73, 33578), (103, 33374), (109, 33326),

Gene: Mulciber_50 Start: 32811, Stop: 32248, Start Num: 17
Candidate Starts for Mulciber_50:
(Start: 17 @32811 has 223 MA's), (56, 32682), (91, 32517), (103, 32361),

Gene: Munch_51 Start: 33271, Stop: 32702, Start Num: 17
Candidate Starts for Munch_51:
(Start: 17 @33271 has 223 MA's), (56, 33136), (91, 32971), (103, 32815),

Gene: MyraDee_43 Start: 29930, Stop: 29361, Start Num: 17
Candidate Starts for MyraDee_43:
(Start: 17 @29930 has 223 MA's), (Start: 19 @29924 has 1 MA's), (67, 29705), (83, 29642), (88, 29633), (96, 29594), (103, 29465), (106, 29447),

Gene: Myxus_50 Start: 33634, Stop: 33104, Start Num: 13
Candidate Starts for Myxus_50:
(Start: 13 @33634 has 62 MA's), (Start: 17 @33619 has 223 MA's), (46, 33526), (58, 33502), (68, 33424), (87, 33361), (103, 33211),

Gene: NaSiaTalie_50 Start: 33715, Stop: 33191, Start Num: 13
Candidate Starts for NaSiaTalie_50:
(Start: 13 @33715 has 62 MA's), (Start: 17 @33700 has 223 MA's), (40, 33631), (58, 33595), (63, 33568), (66, 33523), (68, 33517), (70, 33493), (73, 33481), (87, 33454), (90, 33445), (93, 33427), (103, 33304),

Gene: Naiad_39 Start: 29811, Stop: 29287, Start Num: 30
Candidate Starts for Naiad_39:
(Start: 30 @29811 has 36 MA's), (55, 29706), (103, 29394), (105, 29385), (106, 29376), (109, 29346),

Gene: Naji_52 Start: 33469, Stop: 32891, Start Num: 17
Candidate Starts for Naji_52:
(Start: 13 @33484 has 62 MA's), (Start: 17 @33469 has 223 MA's), (55, 33352), (57, 33346), (63, 33322), (67, 33274), (94, 33175), (97, 33166), (99, 33157), (103, 33004),

Gene: Nancinator_39 Start: 29797, Stop: 29273, Start Num: 30
Candidate Starts for Nancinator_39:
(Start: 30 @29797 has 36 MA's), (55, 29692), (103, 29380), (105, 29371), (106, 29362), (109, 29332),

Gene: Natosaleda_39 Start: 29796, Stop: 29272, Start Num: 30
Candidate Starts for Natosaleda_39:
(Start: 30 @29796 has 36 MA's), (55, 29691), (103, 29379), (105, 29370), (106, 29361), (109, 29331),

Gene: Nebulosus_53 Start: 32530, Stop: 31988, Start Num: 24
Candidate Starts for Nebulosus_53:
(Start: 24 @32530 has 11 MA's), (25, 32524), (51, 32419), (60, 32392), (61, 32389), (74, 32278), (83, 32257), (88, 32248), (90, 32239), (103, 32092), (109, 32047),

Gene: Nedarya_49 Start: 31962, Stop: 31435, Start Num: 23
Candidate Starts for Nedarya_49:
(Start: 23 @31962 has 1 MA's), (36, 31896), (48, 31854), (51, 31848), (88, 31689), (103, 31542), (109, 31494),

Gene: Neeharika16_51 Start: 32238, Stop: 31666, Start Num: 17
Candidate Starts for Neeharika16_51:

(Start: 13 @32253 has 62 MA's), (Start: 17 @32238 has 223 MA's), (52, 32127), (59, 32109), (92, 31947), (99, 31920), (103, 31776), (104, 31773),

Gene: Newrala_52 Start: 32795, Stop: 32214, Start Num: 13

Candidate Starts for Newrala_52:

(Start: 13 @32795 has 62 MA's), (Start: 17 @32780 has 223 MA's), (52, 32669), (59, 32651), (92, 32489), (99, 32462), (103, 32324), (104, 32321),

Gene: NicoleTera_49 Start: 33986, Stop: 33456, Start Num: 17

Candidate Starts for NicoleTera_49:

(Start: 13 @34001 has 62 MA's), (Start: 17 @33986 has 223 MA's), (40, 33908), (58, 33872), (60, 33866), (63, 33845), (68, 33794), (73, 33758), (87, 33731), (103, 33569), (106, 33551),

Gene: Norz_47 Start: 35704, Stop: 35213, Start Num: 28

Candidate Starts for Norz_47:

(Start: 28 @35704 has 8 MA's), (29, 35698), (44, 35623), (59, 35602), (88, 35470), (90, 35461), (106, 35302), (111, 35266),

Gene: NothingSpecial_48 Start: 34231, Stop: 33707, Start Num: 13

Candidate Starts for NothingSpecial_48:

(Start: 13 @34231 has 62 MA's), (Start: 17 @34216 has 223 MA's), (63, 34084), (66, 34039), (68, 34033), (87, 33970), (103, 33817), (104, 33814),

Gene: Odin_49 Start: 32519, Stop: 31926, Start Num: 17

Candidate Starts for Odin_49:

(Start: 13 @32534 has 62 MA's), (Start: 17 @32519 has 223 MA's), (56, 32375), (67, 32300), (99, 32183), (103, 32036), (104, 32033), (106, 32018), (109, 31991),

Gene: OlanP_52 Start: 33922, Stop: 33329, Start Num: 17

Candidate Starts for OlanP_52:

(Start: 17 @33922 has 223 MA's), (Start: 19 @33916 has 1 MA's), (55, 33769), (59, 33760), (73, 33649), (103, 33445), (109, 33397),

Gene: Ollie_53 Start: 33727, Stop: 33137, Start Num: 17

Candidate Starts for Ollie_53:

(Start: 17 @33727 has 223 MA's), (Start: 19 @33721 has 1 MA's), (55, 33577), (59, 33568), (64, 33541), (73, 33457), (103, 33253), (109, 33205),

Gene: Oofda_55 Start: 32610, Stop: 32080, Start Num: 24

Candidate Starts for Oofda_55:

(Start: 24 @32610 has 11 MA's), (25, 32604), (36, 32544), (69, 32385), (73, 32367), (86, 32340), (103, 32184), (109, 32139),

Gene: Orange_50 Start: 32820, Stop: 32251, Start Num: 17

Candidate Starts for Orange_50:

(Start: 17 @32820 has 223 MA's), (56, 32685), (91, 32520), (103, 32364),

Gene: P28Green_54 Start: 33859, Stop: 33269, Start Num: 17

Candidate Starts for P28Green_54:

(Start: 17 @33859 has 223 MA's), (Start: 19 @33853 has 1 MA's), (55, 33709), (59, 33700), (64, 33673), (73, 33589), (103, 33385), (109, 33337),

Gene: PGHhamlin_55 Start: 33848, Stop: 33258, Start Num: 17

Candidate Starts for PGHhamlin_55:

(Start: 17 @33848 has 223 MA's), (Start: 19 @33842 has 1 MA's), (55, 33698), (59, 33689), (64, 33662), (73, 33578), (103, 33374), (109, 33326),

Gene: PackMan_49 Start: 33634, Stop: 33104, Start Num: 13

Candidate Starts for PackMan_49:

(Start: 13 @33634 has 62 MA's), (Start: 17 @33619 has 223 MA's), (46, 33526), (58, 33502), (68, 33424), (87, 33361), (103, 33211),

Gene: PainterBoy_51 Start: 33419, Stop: 32871, Start Num: 17

Candidate Starts for PainterBoy_51:

(Start: 13 @33434 has 62 MA's), (Start: 17 @33419 has 223 MA's), (47, 33302), (66, 33200), (68, 33194), (87, 33131), (90, 33122), (103, 32978),

Gene: Parliament_46 Start: 35665, Stop: 35174, Start Num: 28

Candidate Starts for Parliament_46:

(Start: 28 @35665 has 8 MA's), (29, 35659), (44, 35584), (59, 35563), (88, 35431), (90, 35422), (100, 35371), (106, 35263), (111, 35227),

Gene: Partridge_39 Start: 29958, Stop: 29434, Start Num: 30

Candidate Starts for Partridge_39:

(Start: 30 @29958 has 36 MA's), (55, 29853), (103, 29541), (105, 29532), (106, 29523), (109, 29493),

Gene: Pawn_53 Start: 33753, Stop: 33163, Start Num: 17

Candidate Starts for Pawn_53:

(Start: 17 @33753 has 223 MA's), (Start: 19 @33747 has 1 MA's), (55, 33603), (59, 33594), (64, 33567), (73, 33483), (103, 33279), (109, 33231),

Gene: Payneful_45 Start: 34685, Stop: 34206, Start Num: 28

Candidate Starts for Payneful_45:

(Start: 28 @34685 has 8 MA's), (29, 34679), (44, 34604), (59, 34583), (68, 34514), (88, 34451), (90, 34442), (106, 34295), (111, 34259),

Gene: Pembroke_53 Start: 33857, Stop: 33267, Start Num: 17

Candidate Starts for Pembroke_53:

(Start: 17 @33857 has 223 MA's), (Start: 19 @33851 has 1 MA's), (55, 33707), (59, 33698), (64, 33671), (73, 33587), (103, 33383), (109, 33335),

Gene: Penny1_54 Start: 33860, Stop: 33270, Start Num: 17

Candidate Starts for Penny1_54:

(Start: 17 @33860 has 223 MA's), (Start: 19 @33854 has 1 MA's), (55, 33710), (59, 33701), (64, 33674), (73, 33590), (103, 33386), (109, 33338),

Gene: Petersenfast_49 Start: 32822, Stop: 32253, Start Num: 17

Candidate Starts for Petersenfast_49:

(Start: 17 @32822 has 223 MA's), (56, 32687), (91, 32522), (103, 32366),

Gene: Ph8s_52 Start: 33102, Stop: 32488, Start Num: 13

Candidate Starts for Ph8s_52:

(Start: 13 @33102 has 62 MA's), (Start: 17 @33087 has 223 MA's), (56, 32934), (67, 32859), (72, 32826), (99, 32742), (101, 32721), (103, 32598), (104, 32595), (109, 32553),

Gene: Phaded_51 Start: 34886, Stop: 34329, Start Num: 13

Candidate Starts for Phaded_51:

(Start: 13 @34886 has 62 MA's), (Start: 17 @34871 has 223 MA's), (37, 34793), (65, 34736), (67, 34694), (80, 34637), (88, 34625), (92, 34604), (99, 34577), (103, 34436), (106, 34418),

Gene: Phaeder_50 Start: 33619, Stop: 33104, Start Num: 17

Candidate Starts for Phaeder_50:

(Start: 13 @33634 has 62 MA's), (Start: 17 @33619 has 223 MA's), (46, 33526), (58, 33502), (68, 33424), (87, 33361), (103, 33211),

Gene: PhailMary_38 Start: 30120, Stop: 29596, Start Num: 30

Candidate Starts for PhailMary_38:

(Start: 30 @30120 has 36 MA's), (55, 30015), (103, 29703), (105, 29694), (106, 29685), (109, 29655),

Gene: Pharaoh_45 Start: 33439, Stop: 32915, Start Num: 17

Candidate Starts for Pharaoh_45:

(Start: 17 @33439 has 223 MA's), (68, 33241), (87, 33178), (103, 33016),

Gene: PhishRPhriends_51 Start: 32930, Stop: 32337, Start Num: 17

Candidate Starts for PhishRPhriends_51:

(Start: 17 @32930 has 223 MA's), (Start: 19 @32924 has 1 MA's), (55, 32777), (59, 32768), (64, 32741), (73, 32657), (103, 32453), (109, 32405),

Gene: Phlei_39 Start: 33153, Stop: 32638, Start Num: 27

Candidate Starts for Phlei_39:

(16, 33195), (21, 33180), (27, 33153), (33, 33132), (47, 33078), (59, 33045), (60, 33042), (63, 33021), (69, 32955), (76, 32922), (78, 32919), (88, 32907), (89, 32901), (102, 32832), (103, 32751), (109, 32703),

Gene: Phoebe_54 Start: 33849, Stop: 33259, Start Num: 17

Candidate Starts for Phoebe_54:

(Start: 17 @33849 has 223 MA's), (Start: 19 @33843 has 1 MA's), (55, 33699), (59, 33690), (64, 33663), (73, 33579), (103, 33375), (109, 33327),

Gene: Phonnegut_50 Start: 33716, Stop: 33153, Start Num: 17

Candidate Starts for Phonnegut_50:

(Start: 13 @33731 has 62 MA's), (Start: 17 @33716 has 223 MA's), (56, 33590), (69, 33500), (99, 33401), (103, 33260),

Gene: Phoxy_53 Start: 33881, Stop: 33294, Start Num: 17

Candidate Starts for Phoxy_53:

(Start: 17 @33881 has 223 MA's), (Start: 19 @33875 has 1 MA's), (55, 33737), (59, 33728), (64, 33701), (65, 33698), (69, 33638), (73, 33617), (103, 33410), (109, 33362),

Gene: Phrankenstein_39 Start: 29744, Stop: 29220, Start Num: 30

Candidate Starts for Phrankenstein_39:

(Start: 30 @29744 has 36 MA's), (55, 29639), (103, 29327), (105, 29318), (106, 29309), (109, 29279),

Gene: Phranny_54 Start: 33735, Stop: 33145, Start Num: 17

Candidate Starts for Phranny_54:

(Start: 17 @33735 has 223 MA's), (Start: 19 @33729 has 1 MA's), (55, 33585), (59, 33576), (64, 33549), (73, 33465), (103, 33261), (109, 33213),

Gene: Pioneer_50 Start: 33716, Stop: 33153, Start Num: 17

Candidate Starts for Pioneer_50:

(Start: 13 @33731 has 62 MA's), (Start: 17 @33716 has 223 MA's), (56, 33590), (69, 33500), (99, 33401), (103, 33260),

Gene: Piro94_50 Start: 34062, Stop: 33535, Start Num: 13

Candidate Starts for Piro94_50:

(Start: 13 @34062 has 62 MA's), (Start: 17 @34047 has 223 MA's), (40, 33978), (58, 33942), (63, 33915), (68, 33864), (70, 33840), (73, 33828), (87, 33801), (90, 33792), (93, 33774), (103, 33648),

Gene: Pmask_52 Start: 32781, Stop: 32215, Start Num: 17

Candidate Starts for Pmask_52:

(Start: 13 @32796 has 62 MA's), (Start: 17 @32781 has 223 MA's), (52, 32670), (59, 32652), (92, 32490), (99, 32463), (103, 32325), (104, 32322),

Gene: Pomar16_52 Start: 33509, Stop: 32931, Start Num: 17

Candidate Starts for Pomar16_52:

(Start: 13 @33524 has 62 MA's), (Start: 17 @33509 has 223 MA's), (55, 33392), (57, 33386), (63, 33362), (67, 33314), (94, 33215), (97, 33206), (99, 33197), (103, 33044),

Gene: PotatoSplit_55 Start: 33860, Stop: 33270, Start Num: 17

Candidate Starts for PotatoSplit_55:

(Start: 17 @33860 has 223 MA's), (Start: 19 @33854 has 1 MA's), (55, 33710), (59, 33701), (64, 33674), (73, 33590), (103, 33386), (109, 33338),

Gene: Power_49 Start: 33684, Stop: 33163, Start Num: 17

Candidate Starts for Power_49:

(Start: 13 @33699 has 62 MA's), (Start: 17 @33684 has 223 MA's), (58, 33570), (63, 33543), (66, 33498), (68, 33492), (70, 33468), (87, 33429), (90, 33420), (103, 33273), (106, 33255), (109, 33225),

Gene: Priamo_54 Start: 32522, Stop: 31971, Start Num: 17

Candidate Starts for Priamo_54:

(Start: 12 @32537 has 1 MA's), (Start: 17 @32522 has 223 MA's), (67, 32312), (68, 32309), (87, 32246), (90, 32237), (103, 32081), (104, 32078),

Gene: Priya_50 Start: 33686, Stop: 33171, Start Num: 17

Candidate Starts for Priya_50:

(Start: 13 @33701 has 62 MA's), (Start: 17 @33686 has 223 MA's), (46, 33593), (58, 33569), (68, 33491), (87, 33428), (103, 33278),

Gene: Pukovnik_49 Start: 34501, Stop: 33938, Start Num: 13

Candidate Starts for Pukovnik_49:

(Start: 13 @34501 has 62 MA's), (Start: 17 @34486 has 223 MA's), (65, 34354), (67, 34312), (80, 34255), (92, 34222), (99, 34195), (103, 34045), (106, 34027),

Gene: PurpleHaze_53 Start: 33748, Stop: 33158, Start Num: 17

Candidate Starts for PurpleHaze_53:

(Start: 17 @33748 has 223 MA's), (Start: 19 @33742 has 1 MA's), (55, 33598), (59, 33589), (64, 33562), (73, 33478), (103, 33274), (109, 33226),

Gene: Qobbit_50 Start: 33648, Stop: 33133, Start Num: 17

Candidate Starts for Qobbit_50:

(Start: 13 @33663 has 62 MA's), (Start: 17 @33648 has 223 MA's), (46, 33555), (58, 33531), (68, 33453), (87, 33390), (103, 33240),

Gene: QueenB2_49 Start: 33638, Stop: 33120, Start Num: 17

Candidate Starts for QueenB2_49:

(Start: 13 @33653 has 62 MA's), (Start: 17 @33638 has 223 MA's), (58, 33524), (63, 33497), (68, 33446), (70, 33422), (87, 33383), (90, 33374), (103, 33230), (106, 33212), (109, 33182),

Gene: QueenBeesly_50 Start: 33631, Stop: 33110, Start Num: 17

Candidate Starts for QueenBeesly_50:

(Start: 13 @33646 has 62 MA's), (Start: 17 @33631 has 223 MA's), (58, 33517), (63, 33490), (66, 33445), (68, 33439), (70, 33415), (87, 33376), (90, 33367), (103, 33220), (106, 33202), (109, 33172),

Gene: RER2_32 Start: 26670, Stop: 26146, Start Num: 30

Candidate Starts for RER2_32:

(Start: 30 @26670 has 36 MA's), (55, 26565), (103, 26253), (105, 26244), (106, 26235), (109, 26205),

Gene: RGL3_34 Start: 27554, Stop: 27051, Start Num: 30

Candidate Starts for RGL3_34:

(Start: 22 @27584 has 1 MA's), (Start: 30 @27554 has 36 MA's), (54, 27464), (103, 27158), (105, 27149), (109, 27110),

Gene: Rachaly_49 Start: 33948, Stop: 33430, Start Num: 17

Candidate Starts for Rachaly_49:

(10, 33975), (Start: 13 @33963 has 62 MA's), (Start: 17 @33948 has 223 MA's), (40, 33876), (58, 33840), (60, 33834), (63, 33813), (68, 33762), (70, 33738), (73, 33726), (87, 33699), (103, 33540), (106, 33522), (109, 33492),

Gene: Rahalelujah_50 Start: 33197, Stop: 32670, Start Num: 17

Candidate Starts for Rahalelujah_50:

(Start: 13 @33212 has 62 MA's), (Start: 17 @33197 has 223 MA's), (49, 33098), (58, 33074), (68, 32996), (70, 32972), (87, 32933), (103, 32777),

Gene: Rasputin_39 Start: 29768, Stop: 29244, Start Num: 30

Candidate Starts for Rasputin_39:

(Start: 30 @29768 has 36 MA's), (55, 29663), (103, 29351), (105, 29342), (106, 29333), (109, 29303),

Gene: ReMo_53 Start: 32531, Stop: 31989, Start Num: 24

Candidate Starts for ReMo_53:

(Start: 24 @32531 has 11 MA's), (25, 32525), (51, 32420), (60, 32393), (61, 32390), (74, 32279), (83, 32258), (88, 32249), (90, 32240), (103, 32093), (109, 32048),

Gene: Reba_53 Start: 33408, Stop: 32818, Start Num: 17

Candidate Starts for Reba_53:

(Start: 17 @33408 has 223 MA's), (Start: 19 @33402 has 1 MA's), (55, 33258), (59, 33249), (64, 33222), (73, 33138), (103, 32934), (109, 32886),

Gene: RedRock_52 Start: 34849, Stop: 34322, Start Num: 17

Candidate Starts for RedRock_52:

(Start: 13 @34864 has 62 MA's), (Start: 17 @34849 has 223 MA's), (58, 34735), (63, 34708), (66, 34663), (68, 34657), (70, 34633), (87, 34594), (103, 34435), (106, 34417), (109, 34387),

Gene: Refuge_49 Start: 34874, Stop: 34341, Start Num: 13

Candidate Starts for Refuge_49:

(Start: 13 @34874 has 62 MA's), (Start: 17 @34859 has 223 MA's), (38, 34790), (58, 34748), (73, 34637), (103, 34442), (104, 34439),

Gene: Remus_54 Start: 32444, Stop: 31914, Start Num: 24

Candidate Starts for Remus_54:

(Start: 24 @32444 has 11 MA's), (25, 32438), (36, 32378), (69, 32219), (73, 32201), (86, 32174), (103, 32018), (109, 31973),

Gene: Retro23_51 Start: 34038, Stop: 33517, Start Num: 17

Candidate Starts for Retro23_51:

(Start: 13 @34053 has 62 MA's), (Start: 17 @34038 has 223 MA's), (58, 33924), (63, 33897), (68, 33846), (70, 33822), (87, 33783), (90, 33774), (103, 33627), (106, 33609), (109, 33579),

Gene: RexFury_39 Start: 29829, Stop: 29305, Start Num: 30

Candidate Starts for RexFury_39:

(Start: 30 @29829 has 36 MA's), (55, 29724), (103, 29412), (105, 29403), (106, 29394), (109, 29364),

Gene: Rhodalysa_39 Start: 29798, Stop: 29274, Start Num: 30

Candidate Starts for Rhodalysa_39:

(Start: 30 @29798 has 36 MA's), (55, 29693), (103, 29381), (105, 29372), (106, 29363), (109, 29333),

Gene: Rifter_53 Start: 32329, Stop: 31766, Start Num: 12

Candidate Starts for Rifter_53:

(Start: 12 @32329 has 1 MA's), (Start: 17 @32314 has 223 MA's), (67, 32104), (68, 32101), (87, 32038), (90, 32029), (103, 31876), (104, 31873),

Gene: Roksolana_53 Start: 32814, Stop: 32257, Start Num: 17

Candidate Starts for Roksolana_53:

(Start: 1 @33012 has 4 MA's), (2, 32997), (3, 32976), (4, 32946), (5, 32940), (Start: 17 @32814 has 223 MA's), (67, 32604), (68, 32601), (87, 32538), (90, 32529), (103, 32367), (104, 32364),

Gene: Rummer_52 Start: 33884, Stop: 33297, Start Num: 17

Candidate Starts for Rummer_52:

(Start: 17 @33884 has 223 MA's), (Start: 19 @33878 has 1 MA's), (55, 33740), (59, 33731), (64, 33704), (65, 33701), (69, 33641), (73, 33620), (103, 33413), (109, 33365),

Gene: Sabia_53 Start: 33865, Stop: 33260, Start Num: 17

Candidate Starts for Sabia_53:

(Start: 17 @33865 has 223 MA's), (Start: 19 @33859 has 1 MA's), (55, 33715), (59, 33706), (64, 33679), (73, 33595), (103, 33376), (109, 33328),

Gene: Sabinator_52 Start: 33855, Stop: 33265, Start Num: 17

Candidate Starts for Sabinator_52:

(Start: 17 @33855 has 223 MA's), (Start: 19 @33849 has 1 MA's), (55, 33705), (59, 33696), (64, 33669), (73, 33585), (103, 33381), (109, 33333),

Gene: Salz_49 Start: 32793, Stop: 32224, Start Num: 17

Candidate Starts for Salz_49:

(Start: 17 @32793 has 223 MA's), (56, 32658), (91, 32493), (103, 32337),

Gene: Scherzo_50 Start: 33905, Stop: 33342, Start Num: 17

Candidate Starts for Scherzo_50:

(Start: 13 @33920 has 62 MA's), (Start: 17 @33905 has 223 MA's), (56, 33779), (69, 33689), (99, 33590), (103, 33449),

Gene: SemperFi_51 Start: 33914, Stop: 33378, Start Num: 13

Candidate Starts for SemperFi_51:

(Start: 13 @33914 has 62 MA's), (Start: 17 @33899 has 223 MA's), (58, 33785), (63, 33758), (66, 33713), (68, 33707), (70, 33683), (87, 33644), (90, 33635), (103, 33488), (106, 33470), (109, 33440),

Gene: Serenity_50 Start: 32842, Stop: 32324, Start Num: 17

Candidate Starts for Serenity_50:

(Start: 17 @32842 has 223 MA's), (40, 32764), (58, 32731), (68, 32653), (73, 32617), (87, 32590), (103, 32434),

Gene: Sham4_50 Start: 32821, Stop: 32252, Start Num: 17

Candidate Starts for Sham4_50:

(Start: 17 @32821 has 223 MA's), (56, 32686), (91, 32521), (103, 32365),

Gene: SheaKeira_49 Start: 33305, Stop: 32739, Start Num: 17

Candidate Starts for SheaKeira_49:

(Start: 13 @33320 has 62 MA's), (Start: 17 @33305 has 223 MA's), (42, 33215), (56, 33182), (99, 32990), (103, 32846),

Gene: Sheen_50 Start: 35605, Stop: 35081, Start Num: 32

Candidate Starts for Sheen_50:

(Start: 32 @35605 has 4 MA's), (53, 35509), (67, 35416), (81, 35353), (83, 35350), (88, 35341), (95, 35308), (103, 35173), (110, 35128),

Gene: Shuman_39 Start: 29809, Stop: 29285, Start Num: 30

Candidate Starts for Shuman_39:

(Start: 30 @29809 has 36 MA's), (55, 29704), (103, 29392), (105, 29383), (106, 29374), (109, 29344),

Gene: Smeagan_53 Start: 34354, Stop: 33827, Start Num: 17

Candidate Starts for Smeagan_53:

(Start: 13 @34369 has 62 MA's), (Start: 17 @34354 has 223 MA's), (40, 34267), (58, 34231), (63, 34204), (66, 34159), (68, 34153), (70, 34129), (87, 34090), (103, 33937), (106, 33919), (109, 33889),

Gene: SmellyB_52 Start: 32793, Stop: 32206, Start Num: 13

Candidate Starts for SmellyB_52:

(Start: 13 @32793 has 62 MA's), (Start: 17 @32778 has 223 MA's), (52, 32667), (59, 32649), (92, 32487), (99, 32460), (103, 32316), (104, 32313),

Gene: SnapTap_50 Start: 33710, Stop: 33189, Start Num: 17

Candidate Starts for SnapTap_50:

(Start: 13 @33725 has 62 MA's), (Start: 17 @33710 has 223 MA's), (58, 33596), (63, 33569), (66, 33524), (68, 33518), (70, 33494), (87, 33455), (90, 33446), (103, 33299), (106, 33281), (109, 33251),

Gene: Snape_50 Start: 32813, Stop: 32250, Start Num: 17

Candidate Starts for Snape_50:

(Start: 17 @32813 has 223 MA's), (56, 32684), (91, 32519), (103, 32363),

Gene: Snickers_53 Start: 33830, Stop: 33240, Start Num: 17

Candidate Starts for Snickers_53:

(Start: 17 @33830 has 223 MA's), (Start: 19 @33824 has 1 MA's), (55, 33680), (59, 33671), (64, 33644), (73, 33560), (103, 33356), (109, 33308),

Gene: SoYo_53 Start: 33768, Stop: 33178, Start Num: 17

Candidate Starts for SoYo_53:

(Start: 17 @33768 has 223 MA's), (Start: 19 @33762 has 1 MA's), (55, 33618), (59, 33609), (64, 33582), (73, 33498), (103, 33294), (109, 33246),

Gene: SoilDragon_53 Start: 33304, Stop: 32714, Start Num: 17

Candidate Starts for SoilDragon_53:

(Start: 17 @33304 has 223 MA's), (Start: 19 @33298 has 1 MA's), (55, 33154), (59, 33145), (64, 33118), (73, 33034), (103, 32830), (109, 32782),

Gene: SororFago_52 Start: 34625, Stop: 34074, Start Num: 13

Candidate Starts for SororFago_52:

(Start: 13 @34625 has 62 MA's), (Start: 17 @34610 has 223 MA's), (39, 34526), (42, 34517), (58, 34484), (63, 34457), (66, 34412), (68, 34406), (70, 34382), (87, 34343), (90, 34334), (103, 34184), (109, 34139),

Gene: Soshari_55 Start: 33880, Stop: 33293, Start Num: 17

Candidate Starts for Soshari_55:

(Start: 17 @33880 has 223 MA's), (Start: 19 @33874 has 1 MA's), (55, 33736), (59, 33727), (64, 33700), (65, 33697), (69, 33637), (73, 33616), (103, 33409), (109, 33361),

Gene: Spike509_53 Start: 33881, Stop: 33294, Start Num: 17

Candidate Starts for Spike509_53:

(Start: 17 @33881 has 223 MA's), (Start: 19 @33875 has 1 MA's), (55, 33737), (59, 33728), (64, 33701), (65, 33698), (69, 33638), (73, 33617), (103, 33410), (109, 33362),

Gene: Spouty_48 Start: 33685, Stop: 33170, Start Num: 17

Candidate Starts for Spouty_48:

(Start: 13 @33700 has 62 MA's), (Start: 17 @33685 has 223 MA's), (46, 33592), (58, 33568), (68, 33490), (87, 33427), (103, 33277),

Gene: StCroix_39 Start: 29811, Stop: 29287, Start Num: 30

Candidate Starts for StCroix_39:

(Start: 30 @29811 has 36 MA's), (55, 29706), (103, 29394), (105, 29385), (106, 29376), (109, 29346),

Gene: Stagni_53 Start: 33859, Stop: 33269, Start Num: 17

Candidate Starts for Stagni_53:

(Start: 17 @33859 has 223 MA's), (Start: 19 @33853 has 1 MA's), (55, 33709), (59, 33700), (64, 33673), (73, 33589), (103, 33385), (109, 33337),

Gene: StarStuff_52 Start: 33471, Stop: 32893, Start Num: 17

Candidate Starts for StarStuff_52:

(Start: 13 @33486 has 62 MA's), (Start: 17 @33471 has 223 MA's), (55, 33354), (57, 33348), (63, 33324), (67, 33276), (94, 33177), (97, 33168), (99, 33159), (103, 33006),

Gene: Steamy_46 Start: 33175, Stop: 32648, Start Num: 17

Candidate Starts for Steamy_46:

(Start: 13 @33190 has 62 MA's), (Start: 17 @33175 has 223 MA's), (49, 33073), (68, 32971), (87, 32908), (103, 32749),

Gene: StepMih_53 Start: 33850, Stop: 33260, Start Num: 17

Candidate Starts for StepMih_53:

(Start: 17 @33850 has 223 MA's), (Start: 19 @33844 has 1 MA's), (55, 33700), (59, 33691), (64, 33664), (73, 33580), (103, 33376), (109, 33328),

Gene: Strosahl_54 Start: 32444, Stop: 31914, Start Num: 24

Candidate Starts for Strosahl_54:

(Start: 24 @32444 has 11 MA's), (25, 32438), (36, 32378), (69, 32219), (73, 32201), (86, 32174), (103, 32018), (109, 31973),

Gene: Success_22 Start: 13796, Stop: 13275, Start Num: 34

Candidate Starts for Success_22:

(Start: 34 @13796 has 1 MA's), (53, 13724), (58, 13709), (73, 13592), (75, 13583), (77, 13577), (79, 13574),

Gene: SuperAwesome_52 Start: 32807, Stop: 32214, Start Num: 13

Candidate Starts for SuperAwesome_52:

(Start: 13 @32807 has 62 MA's), (Start: 17 @32792 has 223 MA's), (52, 32681), (59, 32663), (92, 32501), (99, 32474), (103, 32324), (104, 32321),

Gene: SuperCallie99_51 Start: 32665, Stop: 32087, Start Num: 17

Candidate Starts for SuperCallie99_51:

(Start: 13 @32680 has 62 MA's), (Start: 17 @32665 has 223 MA's), (52, 32554), (59, 32536), (92, 32374), (99, 32347), (103, 32197), (104, 32194),

Gene: Superchunk_49 Start: 32358, Stop: 31759, Start Num: 17

Candidate Starts for Superchunk_49:

(Start: 13 @32373 has 62 MA's), (Start: 17 @32358 has 223 MA's), (56, 32208), (67, 32133), (74, 32088), (99, 32016), (103, 31869), (104, 31866), (106, 31851), (109, 31824),

Gene: Swann_39 Start: 29796, Stop: 29272, Start Num: 30

Candidate Starts for Swann_39:

(Start: 30 @29796 has 36 MA's), (55, 29691), (103, 29379), (105, 29370), (106, 29361), (109, 29331),

Gene: SweetiePie_50 Start: 33842, Stop: 33318, Start Num: 17

Candidate Starts for SweetiePie_50:

(Start: 13 @33857 has 62 MA's), (Start: 17 @33842 has 223 MA's), (58, 33728), (63, 33701), (66, 33656), (68, 33650), (70, 33626), (87, 33587), (90, 33578), (103, 33428), (106, 33410), (109, 33380),

Gene: SwirlSquare_55 Start: 33014, Stop: 32430, Start Num: 17

Candidate Starts for SwirlSquare_55:

(Start: 13 @33029 has 62 MA's), (Start: 17 @33014 has 223 MA's), (65, 32849), (69, 32789), (99, 32690), (103, 32537), (104, 32534), (109, 32492),

Gene: TWAMP_39 Start: 29798, Stop: 29274, Start Num: 30

Candidate Starts for TWAMP_39:

(Start: 30 @29798 has 36 MA's), (55, 29693), (103, 29381), (105, 29372), (106, 29363), (109, 29333),

Gene: Takoda_39 Start: 29771, Stop: 29247, Start Num: 30

Candidate Starts for Takoda_39:

(Start: 30 @29771 has 36 MA's), (55, 29666), (103, 29354), (105, 29345), (106, 29336), (109, 29306),

Gene: TarsusIV_49 Start: 33682, Stop: 33143, Start Num: 17

Candidate Starts for TarsusIV_49:

(Start: 13 @33697 has 62 MA's), (Start: 17 @33682 has 223 MA's), (45, 33598), (58, 33562), (63, 33535), (66, 33490), (68, 33484), (70, 33460), (85, 33424), (87, 33421), (90, 33412), (103, 33256),

Gene: Taurus_54 Start: 33856, Stop: 33266, Start Num: 17

Candidate Starts for Taurus_54:

(Start: 17 @33856 has 223 MA's), (Start: 19 @33850 has 1 MA's), (55, 33706), (59, 33697), (64, 33670), (73, 33586), (103, 33382), (109, 33334),

Gene: Teodoridan_45 Start: 34988, Stop: 34497, Start Num: 28

Candidate Starts for Teodoridan_45:

(Start: 28 @34988 has 8 MA's), (29, 34982), (44, 34907), (59, 34886), (88, 34754), (90, 34745), (100, 34694), (106, 34586), (111, 34550),

Gene: Tiffany_53 Start: 33742, Stop: 33152, Start Num: 17

Candidate Starts for Tiffany_53:

(Start: 17 @33742 has 223 MA's), (Start: 19 @33736 has 1 MA's), (55, 33592), (59, 33583), (64, 33556), (73, 33472), (103, 33268), (109, 33220),

Gene: Timothy_50 Start: 32790, Stop: 32227, Start Num: 17

Candidate Starts for Timothy_50:

(Start: 17 @32790 has 223 MA's), (56, 32661), (91, 32496), (103, 32340),

Gene: Timshel_47 Start: 34579, Stop: 34079, Start Num: 32

Candidate Starts for Timshel_47:

(Start: 32 @34579 has 4 MA's), (57, 34474), (73, 34354), (88, 34324), (110, 34126),

Gene: TinyTimmy_49 Start: 32839, Stop: 32270, Start Num: 17

Candidate Starts for TinyTimmy_49:

(Start: 17 @32839 has 223 MA's), (56, 32704), (91, 32539), (103, 32383),

Gene: TipsytheTRex_46 Start: 32912, Stop: 32397, Start Num: 17

Candidate Starts for TipsytheTRex_46:

(Start: 17 @32912 has 223 MA's), (40, 32834), (58, 32801), (68, 32723), (73, 32687), (87, 32660), (103, 32507),

Gene: Toaka_50 Start: 33510, Stop: 32944, Start Num: 17

Candidate Starts for Toaka_50:

(Start: 13 @33525 has 62 MA's), (Start: 17 @33510 has 223 MA's), (43, 33411), (45, 33408), (69, 33297), (99, 33198), (103, 33051),

Gene: Tomathan_52 Start: 33468, Stop: 32890, Start Num: 17

Candidate Starts for Tomathan_52:

(Start: 13 @33483 has 62 MA's), (Start: 17 @33468 has 223 MA's), (55, 33351), (57, 33345), (63, 33321), (67, 33273), (71, 33243), (94, 33174), (97, 33165), (99, 33156), (103, 33003),

Gene: ToneTone_49 Start: 32472, Stop: 31927, Start Num: 17

Candidate Starts for ToneTone_49:

(6, 32586), (7, 32571), (Start: 13 @32487 has 62 MA's), (Start: 17 @32472 has 223 MA's), (67, 32262), (68, 32259), (87, 32196), (90, 32187), (103, 32037), (104, 32034),

Gene: Topgun_46 Start: 35080, Stop: 34586, Start Num: 28

Candidate Starts for Topgun_46:

(Start: 28 @35080 has 8 MA's), (29, 35074), (44, 34999), (59, 34978), (88, 34843), (90, 34834), (100, 34783), (106, 34675), (111, 34639),

Gene: Trixie_48 Start: 33814, Stop: 33275, Start Num: 13

Candidate Starts for Trixie_48:

(Start: 13 @33814 has 62 MA's), (Start: 17 @33799 has 223 MA's), (40, 33712), (63, 33649), (68, 33598), (70, 33574), (87, 33535), (103, 33385), (106, 33367), (109, 33337),

Gene: Trooper_51 Start: 34077, Stop: 33538, Start Num: 13

Candidate Starts for Trooper_51:

(10, 34089), (Start: 13 @34077 has 62 MA's), (Start: 17 @34062 has 223 MA's), (40, 33984), (58, 33948), (63, 33921), (68, 33870), (70, 33846), (73, 33834), (87, 33807), (103, 33651), (106, 33633),

Gene: Tubs_50 Start: 33619, Stop: 33104, Start Num: 17

Candidate Starts for Tubs_50:

(Start: 13 @33634 has 62 MA's), (Start: 17 @33619 has 223 MA's), (46, 33526), (58, 33502), (68, 33424), (87, 33361), (103, 33211),

Gene: Tucker_53 Start: 32940, Stop: 32392, Start Num: 17

Candidate Starts for Tucker_53:

(Start: 12 @32955 has 1 MA's), (Start: 17 @32940 has 223 MA's), (67, 32730), (68, 32727), (87, 32664), (90, 32655), (103, 32502), (104, 32499),

Gene: Turbido_51 Start: 34088, Stop: 33570, Start Num: 17

Candidate Starts for Turbido_51:

(Start: 13 @34103 has 62 MA's), (Start: 17 @34088 has 223 MA's), (40, 34004), (58, 33968), (66, 33896), (68, 33890), (70, 33866), (71, 33863), (87, 33827), (103, 33680), (106, 33662), (109, 33632),

Gene: Ugenie5_47 Start: 33904, Stop: 33341, Start Num: 17

Candidate Starts for Ugenie5_47:

(Start: 13 @33919 has 62 MA's), (Start: 17 @33904 has 223 MA's), (56, 33778), (69, 33688), (99, 33589), (103, 33448),

Gene: UhSalsa_39 Start: 29797, Stop: 29273, Start Num: 30

Candidate Starts for UhSalsa_39:

(Start: 30 @29797 has 36 MA's), (55, 29692), (103, 29380), (105, 29371), (106, 29362), (109, 29332),

Gene: Updawg_51 Start: 33944, Stop: 33435, Start Num: 17

Candidate Starts for Updawg_51:

(Start: 13 @33959 has 62 MA's), (Start: 17 @33944 has 223 MA's), (40, 33875), (58, 33839), (63, 33812), (66, 33767), (68, 33761), (70, 33737), (73, 33725), (87, 33698), (90, 33689), (93, 33671), (103, 33548),

Gene: VA6_51 Start: 34058, Stop: 33534, Start Num: 17

Candidate Starts for VA6_51:

(Start: 13 @34073 has 62 MA's), (Start: 17 @34058 has 223 MA's), (52, 33953), (63, 33908), (70, 33833), (87, 33794), (103, 33644), (106, 33626), (109, 33596),

Gene: VC3_53 Start: 33887, Stop: 33309, Start Num: 17

Candidate Starts for VC3_53:

(Start: 13 @33902 has 62 MA's), (Start: 17 @33887 has 223 MA's), (55, 33773), (57, 33767), (63, 33740), (67, 33692), (71, 33662), (93, 33596), (94, 33593), (97, 33584), (99, 33575), (103, 33422),

Gene: Vanisoa_50 Start: 34540, Stop: 33974, Start Num: 17

Candidate Starts for Vanisoa_50:

(Start: 13 @34555 has 62 MA's), (Start: 17 @34540 has 223 MA's), (49, 34429), (99, 34234), (103, 34081),

Gene: Vix_53 Start: 33939, Stop: 33349, Start Num: 17

Candidate Starts for Vix_53:

(Start: 17 @33939 has 223 MA's), (Start: 19 @33933 has 1 MA's), (55, 33789), (59, 33780), (64, 33753), (73, 33669), (103, 33465), (109, 33417),

Gene: VohminGhazi_52 Start: 32779, Stop: 32207, Start Num: 17

Candidate Starts for VohminGhazi_52:

(Start: 13 @32794 has 62 MA's), (Start: 17 @32779 has 223 MA's), (52, 32668), (59, 32650), (92, 32488), (99, 32461), (103, 32317), (104, 32314),

Gene: Waits_54 Start: 32652, Stop: 32116, Start Num: 24

Candidate Starts for Waits_54:

(Start: 24 @32652 has 11 MA's), (25, 32646), (36, 32586), (69, 32427), (73, 32409), (86, 32382), (103, 32220), (109, 32175),

Gene: Watson_53 Start: 33848, Stop: 33258, Start Num: 17

Candidate Starts for Watson_53:

(Start: 17 @33848 has 223 MA's), (Start: 19 @33842 has 1 MA's), (55, 33698), (59, 33689), (64, 33662), (73, 33578), (103, 33374), (109, 33326),

Gene: WeiHuaDA_52 Start: 34601, Stop: 34083, Start Num: 17

Candidate Starts for WeiHuaDA_52:

(Start: 13 @34616 has 62 MA's), (Start: 17 @34601 has 223 MA's), (38, 34529), (40, 34517), (58, 34481), (60, 34475), (63, 34454), (66, 34409), (68, 34403), (70, 34379), (87, 34340), (103, 34193), (106, 34175), (109, 34145),

Gene: Whabigail7_51 Start: 34073, Stop: 33555, Start Num: 17

Candidate Starts for Whabigail7_51:

(Start: 13 @34088 has 62 MA's), (Start: 17 @34073 has 223 MA's), (40, 33989), (58, 33953), (66, 33881), (68, 33875), (70, 33851), (71, 33848), (73, 33839), (87, 33812), (103, 33665), (106, 33647), (109, 33617),

Gene: WideWale_51 Start: 33959, Stop: 33435, Start Num: 13

Candidate Starts for WideWale_51:

(Start: 13 @33959 has 62 MA's), (Start: 17 @33944 has 223 MA's), (40, 33875), (58, 33839), (63, 33812), (66, 33767), (68, 33761), (70, 33737), (73, 33725), (87, 33698), (90, 33689), (93, 33671), (103, 33548),

Gene: Wiks_51 Start: 32558, Stop: 31995, Start Num: 13

Candidate Starts for Wiks_51:

(6, 32657), (7, 32642), (Start: 13 @32558 has 62 MA's), (Start: 17 @32543 has 223 MA's), (67, 32333), (68, 32330), (87, 32267), (90, 32258), (103, 32105), (104, 32102),

Gene: Wilkins_46 Start: 35010, Stop: 34519, Start Num: 28

Candidate Starts for Wilkins_46:

(Start: 28 @35010 has 8 MA's), (29, 35004), (44, 34929), (59, 34908), (68, 34839), (88, 34776), (90, 34767), (100, 34716), (106, 34608), (111, 34572),

Gene: Wooldri_55 Start: 33768, Stop: 33178, Start Num: 17

Candidate Starts for Wooldri_55:

(Start: 17 @33768 has 223 MA's), (Start: 19 @33762 has 1 MA's), (55, 33618), (59, 33609), (64, 33582), (73, 33498), (103, 33294), (109, 33246),

Gene: WunderPhul_52 Start: 32541, Stop: 31993, Start Num: 17

Candidate Starts for WunderPhul_52:

(6, 32655), (7, 32640), (Start: 13 @32556 has 62 MA's), (Start: 17 @32541 has 223 MA's), (67, 32331), (68, 32328), (87, 32265), (90, 32256), (103, 32103), (104, 32100),

Gene: XianYue_49 Start: 33430, Stop: 32909, Start Num: 17

Candidate Starts for XianYue_49:

(Start: 13 @33445 has 62 MA's), (Start: 17 @33430 has 223 MA's), (58, 33310), (63, 33283), (66, 33238), (68, 33232), (87, 33169), (103, 33019), (106, 33001), (109, 32971),

Gene: Yecey3_51 Start: 33196, Stop: 32624, Start Num: 17

Candidate Starts for Yecey3_51:

(Start: 13 @33211 has 62 MA's), (Start: 17 @33196 has 223 MA's), (65, 33043), (67, 33001), (92, 32911), (99, 32884), (103, 32731),

Gene: Yogi_39 Start: 29772, Stop: 29248, Start Num: 30

Candidate Starts for Yogi_39:

(Start: 30 @29772 has 36 MA's), (55, 29667), (103, 29355), (105, 29346), (106, 29337), (109, 29307),

Gene: Yokurt_52 Start: 32543, Stop: 31995, Start Num: 17

Candidate Starts for Yokurt_52:

(6, 32657), (7, 32642), (Start: 13 @32558 has 62 MA's), (Start: 17 @32543 has 223 MA's), (67, 32333), (68, 32330), (87, 32267), (90, 32258), (103, 32105), (104, 32102),

Gene: Yoncess_39 Start: 29773, Stop: 29249, Start Num: 30

Candidate Starts for Yoncess_39:

(Start: 30 @29773 has 36 MA's), (55, 29668), (103, 29356), (105, 29347), (106, 29338), (109, 29308),

Gene: Zaka_52 Start: 32543, Stop: 31995, Start Num: 17

Candidate Starts for Zaka_52:

(6, 32657), (7, 32642), (Start: 13 @32558 has 62 MA's), (Start: 17 @32543 has 223 MA's), (67, 32333), (68, 32330), (87, 32267), (90, 32258), (103, 32105), (104, 32102),

Gene: Zetzy_52 Start: 33419, Stop: 32829, Start Num: 17

Candidate Starts for Zetzy_52:

(Start: 17 @33419 has 223 MA's), (Start: 19 @33413 has 1 MA's), (55, 33269), (59, 33260), (64, 33233), (73, 33149), (103, 32945), (109, 32897),

Gene: Zimmer_47 Start: 34365, Stop: 33847, Start Num: 17

Candidate Starts for Zimmer_47:

(Start: 13 @34380 has 62 MA's), (Start: 17 @34365 has 223 MA's), (38, 34296), (58, 34257), (73, 34146), (103, 33948), (104, 33945),

Gene: Zulu_53 Start: 32936, Stop: 32373, Start Num: 13

Candidate Starts for Zulu_53:

(6, 33035), (7, 33020), (Start: 13 @32936 has 62 MA's), (Start: 17 @32921 has 223 MA's), (67, 32711), (68, 32708), (87, 32645), (90, 32636), (103, 32483), (104, 32480),