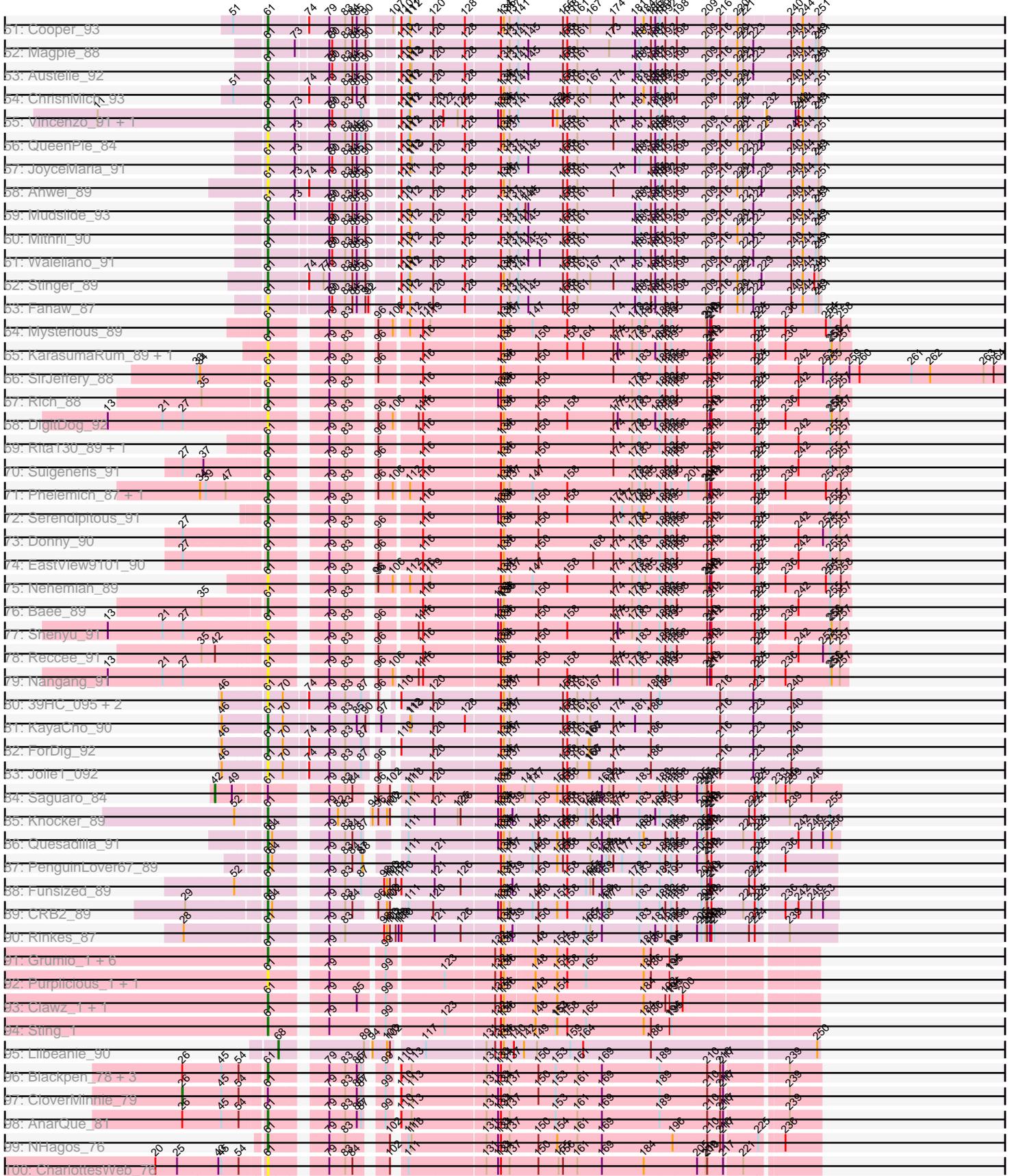
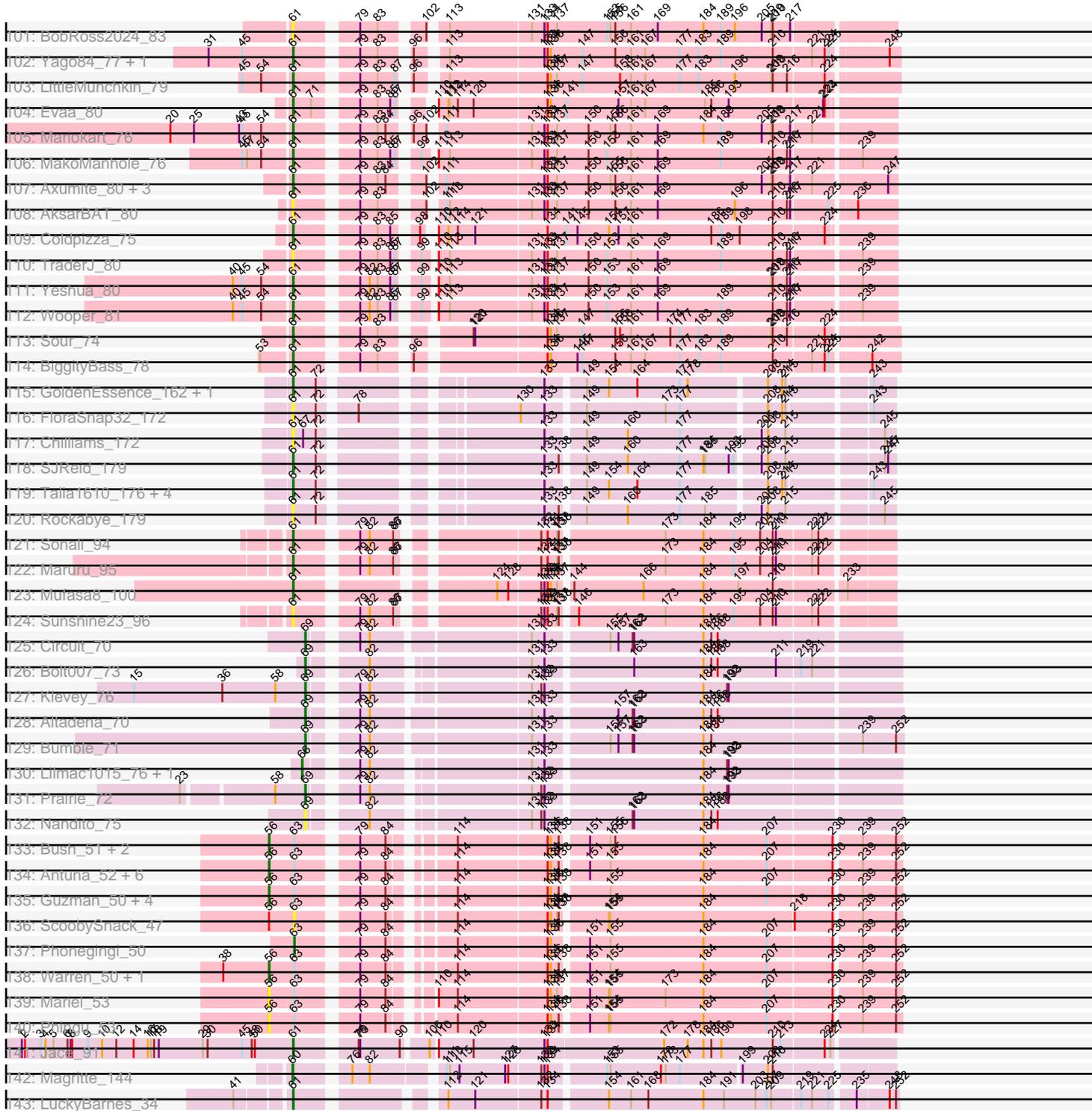


Pham 290782



Pham 290782



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 290782 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290782 has 285 members, 66 are drafts.

Phages represented in each track:

- Track 1 : Causa_155, StAugustine_152
- Track 2 : EastWest_82
- Track 3 : Franzy_71
- Track 4 : Brent_73
- Track 5 : King2_72
- Track 6 : Piccoletto_73
- Track 7 : Jawnski_72
- Track 8 : Beans_72
- Track 9 : NathanVaag_72
- Track 10 : GravityBall_77, BigDome_77, Timinator_78, StevieBAY_78
- Track 11 : JKerns_75, Sonny_76, Jordan_77, Zartrosa_78
- Track 12 : Grekaycon_77, Shade_76, BossLady_78, TaeYoung_77, Martha_76
- Track 13 : Wyborn_77
- Track 14 : Sicarius2_78
- Track 15 : LeeroyJ_78
- Track 16 : Pippa_77
- Track 17 : BarretLemon_78
- Track 18 : Abba_70
- Track 19 : Nostromo_71
- Track 20 : Indlovu_89
- Track 21 : LilMcDreamy_90
- Track 22 : ItsyBitsy1_82
- Track 23 : LizLemon_85, Kaleb_85, Sabella_85, PrinceCharming_85, Arbiter_82, Kolhan_86, Boyle_85, Blocker23_85, Ares_85, Faze9_84, Coffee_84, Bananafish_86, Calamitous_86, Lephleur_85, West99_85, Hedgerow_85, Rhinoforte_85
- Track 24 : Godines_85, LilSmirk_85, Phantasmagoria_84, Tres_85
- Track 25 : Lars_86
- Track 26 : Glass_87, Opia_86, Rosebush_83, Eaglehorse_86, Tinciduntolum_86, Brownie5_85, TA17A_88
- Track 27 : Allegro_85, Holeinone_85
- Track 28 : Laurie_84
- Track 29 : FrenchFry_86
- Track 30 : MasterPo_86
- Track 31 : Vic9_00083
- Track 32 : Kheth_85
- Track 33 : Qyrzula_76

- Track 34 : Ben11_97, Jackstina_90, Tydolla_93, Halfpint_96, Gervas_98, Yinz_95, Compostia_96, Phlyer_97, Kronus_97, Mulaychimus_98, Rita1961_98, Phayeta_99, Devonte_95, Chalmers_97, Olivio_97, Glubnar_97, Mortcellus_97, Obutu_99, SwainyDoc_97, MmasiCarm_98, Marlia_97, Phaedrus_92, Casbah_97, Morty007_95
- Track 35 : Neos5_96, Gadget_96, Baloo_96, Pipefish_96, ChaChing_97, Athena_99
- Track 36 : Marley1013_95, Akoma_98, Philly_96, Chandler_97, TinyTerror_98, Audrey_97, Heathcliff_97, LestyG_95, Yahalom_95, Bernardo_94, RomaT_97, Daisy_96, Kamiyu_97
- Track 37 : OrangeOswald_96, HarveySr_94, Chentzyk_99, Nozo_97
- Track 38 : Shenandoah_97, RagingRooster_97, Corofin_97, Briakila_98, Deenasa_98, Abinghost_97, SlippinJimmy_100, SynergyX_98
- Track 39 : GlenHope_98
- Track 40 : Antihero_91, Lambano_89, Hally898_89, Poster_90, Epah_91, GinPorsche_93, Nanao_91
- Track 41 : BrownCNA_92, Prince_92, Lolalove_94
- Track 42 : Hangman_92, Xincheng_84
- Track 43 : Nigel_88
- Track 44 : Fortunato_89
- Track 45 : Renkei_91, LittleDigger_91
- Track 46 : JaguarMi_86
- Track 47 : Heath_86, BobbyK_92, Frederick_93, Zemanar_90
- Track 48 : Apex_93, Hydro_92, VioletZ_94
- Track 49 : RawrgerThat_90
- Track 50 : JAMaL_92
- Track 51 : Cooper_93
- Track 52 : Magpie_88
- Track 53 : Austelle_92
- Track 54 : ChrisnMich_93
- Track 55 : Vincenzo_91, AlanGrant_92
- Track 56 : QueenPie_84
- Track 57 : JoyceMaria_91
- Track 58 : Ahwei_89
- Track 59 : Mudslide_93
- Track 60 : Mithril_90
- Track 61 : Waleliano_91
- Track 62 : Stinger_89
- Track 63 : Fanaw_87
- Track 64 : Mysterious_89
- Track 65 : KarasumaRum_89, StinkyVeggy_89
- Track 66 : SirJeffery_88
- Track 67 : Rich_88
- Track 68 : DigitDog_92
- Track 69 : Rita130_89, Acadian_90
- Track 70 : Suigeneris_91
- Track 71 : Phelemich_87, Reprobate_89
- Track 72 : Serendipitous_91
- Track 73 : Donny_90
- Track 74 : EastView9101_90
- Track 75 : Nehemiah_89
- Track 76 : Bae_89
- Track 77 : Shenyu_91
- Track 78 : Reccee_91
- Track 79 : Nangang_91

- Track 80 : 39HC_095, Hosp_090, 40BC_095
- Track 81 : KayaCho_90
- Track 82 : ForDig_92
- Track 83 : Jolie1_092
- Track 84 : Saguaro_84
- Track 85 : Knocker_89
- Track 86 : Quesadilla_91
- Track 87 : PenguinLover67_89
- Track 88 : Funsized_89
- Track 89 : CRB2_89
- Track 90 : Rinkes_87
- Track 91 : Grumio_1, Soos_1, Jollymon_1, DonTron_1, Amo99_1, KingstonB_1, ColdSoup_1
- Track 92 : Purplicious_1, Stillion_1
- Track 93 : Clawz_1, Makar_1
- Track 94 : Sting_1
- Track 95 : Lilbeanie_90
- Track 96 : Blackpen_78, MossRose_79, CaiB_80, FelixTres_81
- Track 97 : CloverMinnie_79
- Track 98 : AnarQue_81
- Track 99 : NHagos_76
- Track 100 : CharlottesWeb_76
- Track 101 : BobRoss2024_83
- Track 102 : Yago84_77, Sisko_78
- Track 103 : LittleMunchkin_79
- Track 104 : Evaa_80
- Track 105 : Mariokart_76
- Track 106 : MakoManhole_76
- Track 107 : Axumite_80, Fresco_80, Shatter_80, Ligma_80
- Track 108 : AksarBAT_80
- Track 109 : Coldpizza_75
- Track 110 : TraderJ_80
- Track 111 : Yeshua_80
- Track 112 : Wooper_81
- Track 113 : Sour_74
- Track 114 : BiggityBass_78
- Track 115 : GoldenEssence_162, Patbob_173
- Track 116 : FloraSnap32_172
- Track 117 : Chilliams_172
- Track 118 : SJReid_179
- Track 119 : Talia1610_176, FrostedClock_178, Bloom_179, Racecar_176, Mimi_175
- Track 120 : Rockabye_179
- Track 121 : Sonali_94
- Track 122 : Maruru_95
- Track 123 : Mufasa8_100
- Track 124 : Sunshine23_96
- Track 125 : Circuit_70
- Track 126 : Bolt007_73
- Track 127 : Klevey_76
- Track 128 : Altadena_70
- Track 129 : Bumble_71
- Track 130 : Lilmac1015_76, CalWood4100_76

- Track 131 : Prairie_72
- Track 132 : Nandito_75
- Track 133 : Bush_51, Blett_50, NCRodriguez_52
- Track 134 : Antuna_52, Violeta_52, CookieDog_50, Carrillo_52, Jakelyne_53, MenE_52, Losacky_52
- Track 135 : Guzman_50, Winchester007_66, Appa_50, Dropshot_50, PhillyJawn_51
- Track 136 : ScoobySnack_47
- Track 137 : Phonegingi_50
- Track 138 : Warren_50, Pickles13_49
- Track 139 : Mariel_53
- Track 140 : Phingu_53
- Track 141 : Jace_91
- Track 142 : Magritte_144
- Track 143 : LuckyBarnes_34

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

The start number called the most often in the published annotations is 61, it was called in 144 of the 219 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC_095, 40BC_095, Abinghost_97, Acadian_90, Ahwei_89, AksarBAT_80, AlanGrant_92, Allegro_85, Amo99_1, AnarQue_81, Antihero_91, Apex_93, Arbiter_82, Ares_85, Austelle_92, Axumite_80, Bae_89, Bananafish_86, Ben11_97, BiggityBass_78, Blackpen_78, Blocker23_85, Bloom_179, BobRoss2024_83, BobbyK_92, Boyle_85, Briakila_98, BrownCNA_92, Brownie5_85, CRB2_89, CaiB_80, Calamitous_86, Casbah_97, Chalmers_97, CharlottesWeb_76, Chilliams_172, ChrisnMich_93, Clawz_1, Coffee_84, ColdSoup_1, Coldpizza_75, Compostia_96, Cooper_93, Corofin_97, Deenasa_98, Devonte_95, DigitDog_92, DonTron_1, Donny_90, Eaglehorse_86, EastView9101_90, Epah_91, Evaa_80, Fanaw_87, Faze9_84, FelixTres_81, FloraSnap32_172, ForDig_92, Fortunato_89, Frederick_93, FrenchFry_86, Fresco_80, FrostedClock_178, Funsized_89, Gervas_98, GinPorsche_93, Glass_87, GlenHope_98, Glubnar_97, Godines_85, GoldenEssence_162, Grumio_1, Halfpint_96, Hally898_89, Hangman_92, Heath_86, Hedgerow_85, Holeinone_85, Hosp_090, Hydro_92, Indlovu_89, ItsyBitsy1_82, JAMaL_92, Jace_91, Jackstina_90, JaguarMi_86, Jolie1_092, Jollymon_1, JoyceMaria_91, Kaleb_85, KarasumaRum_89, KayaCho_90, Kheth_85, KingstonB_1, Klocker_89, Kolhan_86, Kronus_97, Lambano_89, Lars_86, Laurie_84, Lephleur_85, Ligma_80, LilMcDreamy_90, LilSmirk_85, LittleDigger_91, LittleMunchkin_79, LizLemon_85, Lolalove_94, LuckyBarnes_34, Magpie_88, Makar_1, MakoManhole_76, Mariokart_76, Marlia_97, Maruru_95, MasterPo_86, Mimi_175, Mithril_90, MmasiCarm_98, Mortcellus_97, Morty007_95, MossRose_79, Mudslide_93, Mufasa8_100, Mulaychimus_98, Mysterious_89, NHagos_76, Nanao_91, Nangang_91, Nehemiah_89, Nigel_88, Obutu_99, Olivio_97, Opia_86, Patbob_173, PenguinLover67_89, Phaedrus_92, Phantasmagoria_84, Phayeta_99, Phelemich_87, Phlyer_97, Poster_90, PrinceCharming_85, Prince_92, Purplicious_1, QueenPie_84, Quesadilla_91, Racecar_176, RagingRooster_97, RawrgerThat_90, Reccee_91, Renkei_91, Reprobate_89, Rhinoforte_85, Rich_88, Rinkes_87, Rita130_89, Rita1961_98, Rockabye_179, Rosebush_83, SJReid_179, Sabella_85, Serendipitous_91, Shatter_80, Shenandoah_97, Shenyu_91, SirJeffery_88,

Sisko_78, SlippinJimmy_100, Sonali_94, Soos_1, Sour_74, Stillion_1, Sting_1, Stinger_89, StinkyVeggy_89, Suigeneris_91, Sunshine23_96, SwainyDoc_97, SynergyX_98, TA17A_88, Talia1610_176, Tinciduntolum_86, TraderJ_80, Tres_85, Tydolla_93, Vic9_00083, Vincenzo_91, VioletZ_94, Waleliano_91, West99_85, Wooper_81, Xincheng_84, Yago84_77, Yeshua_80, Yinz_95, Zemanar_90,

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

- Akoma_98, Athena_99, Audrey_97, Baloo_96, Bernardo_94, ChaChing_97, Chandler_97, Chentzyk_99, CloverMinnie_79, Daisy_96, Gadget_96, HarveySr_94, Heathcliff_97, Kamiyu_97, LestyG_95, Marley1013_95, Neos5_96, Nozo_97, OrangeOswald_96, Philly_96, Pipefish_96, Qyrzula_76, RomaT_97, Saguaro_84, TinyTerror_98, Yahalom_95,

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

- Abba_70, Altadena_70, Antuna_52, Appa_50, BarretLemon_78, Beans_72, BigDome_77, Blett_50, Bolt007_73, BossLady_78, Brent_73, Bumble_71, Bush_51, CalWood4100_76, Carrillo_52, Causa_155, Circuit_70, CookieDog_50, Dropshot_50, EastWest_82, Franzy_71, GravityBall_77, Grekaycon_77, Guzman_50, JKerns_75, Jakelyne_53, Jawnski_72, Jordan_77, King2_72, Klevey_76, LeeroyJ_78, Lilbeanie_90, Lilmac1015_76, Losacky_52, Magritte_144, Mariel_53, Martha_76, MenE_52, NCRodriguez_52, Nandito_75, NathanVaag_72, Nostromo_71, PhillyJawn_51, Phingu_53, Phonegingi_50, Piccoletto_73, Pickles13_49, Pippa_77, Prairie_72, ScoobySnack_47, Shade_76, Sicarius2_78, Sonny_76, StAugustine_152, StevieBAY_78, TaeYoung_77, Timinator_78, Violeta_52, Warren_50, Winchester007_66, Wyborn_77, Zartrosa_78,

Summary by start number:

Start 26:

- Found in 6 of 285 (2.1%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 16.7% of time when present
- Phage (with cluster) where this start called: CloverMinnie_79 (DR),

Start 32:

- Found in 56 of 285 (19.6%) of genes in pham
- Manual Annotations of this start: 6 of 219
- Called 10.7% of time when present
- Phage (with cluster) where this start called: Athena_99 (B3), Baloo_96 (B3), ChaChing_97 (B3), Gadget_96 (B3), Neos5_96 (B3), Pipefish_96 (B3),

Start 42:

- Found in 2 of 285 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Saguaro_84 (B7),

Start 44:

- Found in 2 of 285 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_155 (AI), StAugustine_152 (AI),

Start 52:

- Found in 58 of 285 (20.4%) of genes in pham
- Manual Annotations of this start: 17 of 219
- Called 29.3% of time when present
- Phage (with cluster) where this start called: Akoma_98 (B3), Audrey_97 (B3), Bernardo_94 (B3), Chandler_97 (B3), Chentzyk_99 (B3), Daisy_96 (B3), HarveySr_94 (B3), Heathcliff_97 (B3), Kamiyu_97 (B3), LestyG_95 (B3), Marley1013_95 (B3), Nozo_97 (B3), OrangeOswald_96 (B3), Philly_96 (B3), RomaT_97 (B3), TinyTerror_98 (B3), Yahalom_95 (B3),

Start 55:

- Found in 3 of 285 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 219
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Beans_72 (AO1), Piccoletto_73 (AO1),

Start 56:

- Found in 20 of 285 (7.0%) of genes in pham
- Manual Annotations of this start: 10 of 219
- Called 95.0% of time when present
- Phage (with cluster) where this start called: Antuna_52 (GA), Appa_50 (GA), Blett_50 (GA), Bush_51 (GA), Carrillo_52 (GA), CookieDog_50 (GA), Dropshot_50 (GA), Guzman_50 (GA), Jakelyne_53 (GA), Losacky_52 (GA), Mariel_53 (GA), MenE_52 (GA), NCRodriguez_52 (GA), PhillyJawn_51 (GA), Phingu_53 (GA), Pickles13_49 (GA), Violeta_52 (GA), Warren_50 (GA), Winchester007_66 (GA),

Start 57:

- Found in 4 of 285 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 219
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Franzy_71 (AO1), Jawnski_72 (AO1),

Start 60:

- Found in 1 of 285 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Magritte_144 (singleton),

Start 61:

- Found in 223 of 285 (78.2%) of genes in pham
- Manual Annotations of this start: 144 of 219
- Called 88.3% of time when present
- Phage (with cluster) where this start called: 39HC_095 (B6), 40BC_095 (B6), Abinghost_97 (B3), Acadian_90 (B5), Ahwei_89 (B4), AksarBAT_80 (DR), AlanGrant_92 (B4), Allegro_85 (B2), Amo99_1 (CP), AnarQue_81 (DR), Antihero_91 (B4), Apex_93 (B4), Arbiter_82 (B2), Ares_85 (B2), Austelle_92 (B4), Axumite_80 (DR), Bae_89 (B5), Bananafish_86 (B2), Ben11_97 (B3), BiggityBass_78 (DR), Blackpen_78 (DR), Blocker23_85 (B2), Bloom_179 (FC), BobRoss2024_83 (DR), BobbyK_92 (B4), Boyle_85 (B2), Briakila_98 (B3), BrownCNA_92 (B4), Brownie5_85 (B2), CRB2_89 (B9), CaiB_80 (DR), Calamitous_86 (B2), Casbah_97 (B3), Chalmers_97 (B3), CharlottesWeb_76 (DR), Chilliams_172 (FC), ChrisnMich_93 (B4), Clawz_1 (CP), Coffee_84 (B2), ColdSoup_1 (CP), Coldpizza_75 (DR), Compostia_96 (B3), Cooper_93 (B4), Corofin_97 (B3), Deenasa_98 (B3),

Devonte_95 (B3), DigitDog_92 (B5), DonTron_1 (CP), Donny_90 (B5), Eaglehorse_86 (B2), EastView9101_90 (B5), Epah_91 (B4), Eva_80 (DR), Fanaw_87 (B4), Faze9_84 (B2), FelixTres_81 (DR), FloraSnap32_172 (FC), ForDig_92 (B6), Fortunato_89 (B4), Frederick_93 (B4), FrenchFry_86 (B2), Fresco_80 (DR), FrostedClock_178 (FC), Funsized_89 (B9), Gervas_98 (B3), GinPorsche_93 (B4), Glass_87 (B2), GlenHope_98 (B3), Glubnar_97 (B3), Godines_85 (B2), GoldenEssence_162 (FC), Grumio_1 (CP), Halfpint_96 (B3), Hally898_89 (B4), Hangman_92 (B4), Heath_86 (B4), Hedgerow_85 (B2), Holeinone_85 (B2), Hosp_090 (B6), Hydro_92 (B4), Indlovu_89 (B11), ItsyBitsy1_82 (B2), JAMaL_92 (B4), Jace_91 (singleton), Jackstina_90 (B3), JaguarMi_86 (B4), Jolie1_092 (B6), Jollymon_1 (CP), JoyceMaria_91 (B4), Kaleb_85 (B2), KarasumaRum_89 (B5), KayaCho_90 (B6), Kheth_85 (B2), KingstonB_1 (CP), Knocker_89 (B9), Kolhan_86 (B2), Kronus_97 (B3), Lambano_89 (B4), Lars_86 (B2), Laurie_84 (B2), Lephleur_85 (B2), Ligma_80 (DR), LilMcDreamy_90 (B12), LilSmirk_85 (B2), LittleDigger_91 (B4), LittleMunchkin_79 (DR), LizLemon_85 (B2), Lolalove_94 (B4), LuckyBarnes_34 (singleton), Magpie_88 (B4), Makar_1 (CP), MakoManhole_76 (DR), Mariokart_76 (DR), Marlia_97 (B3), Maruru_95 (FG), MasterPo_86 (B2), Mimi_175 (FC), Mithril_90 (B4), MmasiCarm_98 (B3), Mortcellus_97 (B3), Morty007_95 (B3), MossRose_79 (DR), Mudslide_93 (B4), Mufasa8_100 (FG), Mulaychimus_98 (B3), Mysterious_89 (B5), NHagos_76 (DR), Nanao_91 (B4), Nangang_91 (B5), Nehemiah_89 (B5), Nigel_88 (B4), Obutu_99 (B3), Olivio_97 (B3), Opia_86 (B2), Patbob_173 (FC), PenguinLover67_89 (B9), Phaedrus_92 (B3), Phantasmagoria_84 (B2), Phayeta_99 (B3), Phelemich_87 (B5), Phlyer_97 (B3), Poster_90 (B4), PrinceCharming_85 (B2), Prince_92 (B4), Purpicious_1 (CP), QueenPie_84 (B4), Quesadilla_91 (B9), Racecar_176 (FC), RagingRooster_97 (B3), RawrgerThat_90 (B4), Reccee_91 (B5), Renkei_91 (B4), Reprobate_89 (B5), Rhinoforte_85 (B2), Rich_88 (B5), Rinkes_87 (B9), Rita130_89 (B5), Rita1961_98 (B3), Rockabye_179 (FC), Rosebush_83 (B2), SJReid_179 (FC), Sabella_85 (B2), Serendipitous_91 (B5), Shatter_80 (DR), Shenandoah_97 (B3), Shenyu_91 (B5), SirJeffery_88 (B5), Sisko_78 (DR), SlippinJimmy_100 (B3), Sonali_94 (FG), Soos_1 (CP), Sour_74 (DR), Stillion_1 (CP), Sting_1 (CP), Stinger_89 (B4), StinkyVeggy_89 (B5), Suigeneris_91 (B5), Sunshine23_96 (FG), SwainyDoc_97 (B3), SynergyX_98 (B3), TA17A_88 (B2), Talia1610_176 (FC), Tinciduntolum_86 (B2), TraderJ_80 (DR), Tres_85 (B2), Tydolla_93 (B3), Vic9_00083 (B2), Vincenzo_91 (B4), VioletZ_94 (B4), Waleliano_91 (B4), West99_85 (B2), Wooper_81 (DR), Xincheng_84 (B4), Yago84_77 (DR), Yeshua_80 (DR), Yinz_95 (B3), Zemanar_90 (B4),

Start 62:

- Found in 6 of 285 (2.1%) of genes in pham
- Manual Annotations of this start: 2 of 219
- Called 33.3% of time when present
- Phage (with cluster) where this start called: BarretLemon_78 (AO2), LeeroyJ_78 (AO2),

Start 63:

- Found in 21 of 285 (7.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 9.5% of time when present
- Phage (with cluster) where this start called: Phonegingi_50 (GA), ScoobySnack_47 (GA),

Start 65:

- Found in 28 of 285 (9.8%) of genes in pham
- Manual Annotations of this start: 21 of 219
- Called 78.6% of time when present
- Phage (with cluster) where this start called: Abba_70 (AO3), BigDome_77 (AO2), BossLady_78 (AO2), Brent_73 (AO1), EastWest_82 (AO), GravityBall_77 (AO2), Grekaycon_77 (AO2), JKerns_75 (AO2), Jordan_77 (AO2), King2_72 (AO1), Martha_76 (AO2), NathanVaag_72 (AO1), Nostromo_71 (AO3), Pippa_77 (AO2), Shade_76 (AO2), Sicarius2_78 (AO2), Sonny_76 (AO2), StevieBAY_78 (AO2), TaeYoung_77 (AO2), Timinator_78 (AO2), Wyborn_77 (AO2), Zartrosa_78 (AO2),

Start 66:

- Found in 2 of 285 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CalWood4100_76 (FH), Lilmac1015_76 (FH),

Start 68:

- Found in 1 of 285 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lilbeanie_90 (DE5),

Start 69:

- Found in 7 of 285 (2.5%) of genes in pham
- Manual Annotations of this start: 6 of 219
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altadena_70 (FH), Bolt007_73 (FH), Bumble_71 (FH), Circuit_70 (FH), Klevey_76 (FH), Nandito_75 (FH), Prairie_72 (FH),

Start 70:

- Found in 100 of 285 (35.1%) of genes in pham
- Manual Annotations of this start: 1 of 219
- Called 1.0% of time when present
- Phage (with cluster) where this start called: Qyrzula_76 (B2),

Summary by clusters:

There are 22 clusters represented in this pham: singleton, AO1, B11, FC, B12, FG, FH, DR, AI, AO, AO3, AO2, GA, CP, DE5, B4, B5, B6, B7, B2, B3, B9,

Info for manual annotations of cluster AI:

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

Info for manual annotations of cluster AO:

- Start number 65 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 55 was manually annotated 2 times for cluster AO1.
- Start number 57 was manually annotated 2 times for cluster AO1.
- Start number 65 was manually annotated 3 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 62 was manually annotated 2 times for cluster AO2.
- Start number 65 was manually annotated 15 times for cluster AO2.

Info for manual annotations of cluster AO3:

- Start number 65 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster B11:

- Start number 61 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 61 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B2:

- Start number 61 was manually annotated 36 times for cluster B2.
- Start number 70 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:

- Start number 32 was manually annotated 6 times for cluster B3.
- Start number 52 was manually annotated 17 times for cluster B3.
- Start number 61 was manually annotated 27 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 61 was manually annotated 26 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 61 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 61 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

- Start number 42 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:

- Start number 61 was manually annotated 6 times for cluster B9.

Info for manual annotations of cluster CP:

- Start number 61 was manually annotated 5 times for cluster CP.

Info for manual annotations of cluster DE5:

- Start number 68 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DR:

- Start number 26 was manually annotated 1 time for cluster DR.
- Start number 61 was manually annotated 19 times for cluster DR.

Info for manual annotations of cluster FC:

- Start number 61 was manually annotated 6 times for cluster FC.

Info for manual annotations of cluster FG:

- Start number 61 was manually annotated 3 times for cluster FG.

Info for manual annotations of cluster FH:

- Start number 66 was manually annotated 1 time for cluster FH.
- Start number 69 was manually annotated 6 times for cluster FH.

Info for manual annotations of cluster GA:

- Start number 56 was manually annotated 10 times for cluster GA.
- Start number 63 was manually annotated 1 time for cluster GA.

Gene Information:

Gene: 39HC_095 Start: 69471, Stop: 68434, Start Num: 61

Candidate Starts for 39HC_095:

(46, 69552), (Start: 61 @69471 has 144 MA's), (Start: 70 @69441 has 1 MA's), (74, 69399), (79, 69357), (83, 69324), (87, 69291), (96, 69270), (110, 69261), (120, 69198), (134, 69066), (136, 69060), (137, 69048), (156, 68940), (158, 68931), (161, 68910), (167, 68883), (186, 68760), (189, 68745), (216, 68628), (223, 68565), (240, 68493),

Gene: 40BC_095 Start: 69471, Stop: 68434, Start Num: 61

Candidate Starts for 40BC_095:

(46, 69552), (Start: 61 @69471 has 144 MA's), (Start: 70 @69441 has 1 MA's), (74, 69399), (79, 69357), (83, 69324), (87, 69291), (96, 69270), (110, 69261), (120, 69198), (134, 69066), (136, 69060), (137, 69048), (156, 68940), (158, 68931), (161, 68910), (167, 68883), (186, 68760), (189, 68745), (216, 68628), (223, 68565), (240, 68493),

Gene: Abba_70 Start: 45948, Stop: 44947, Start Num: 65

Candidate Starts for Abba_70:

(Start: 65 @45948 has 21 MA's), (82, 45855), (110, 45753), (113, 45732), (118, 45699), (131, 45588), (134, 45558), (137, 45540), (155, 45456), (156, 45447), (163, 45411), (168, 45384), (186, 45267), (238, 45015), (244, 44988), (248, 44964), (251, 44955),

Gene: Abinghost_97 Start: 66868, Stop: 65810, Start Num: 61

Candidate Starts for Abinghost_97:

(24, 67042), (Start: 32 @67012 has 6 MA's), (Start: 52 @66922 has 17 MA's), (Start: 61 @66868 has 144 MA's), (Start: 70 @66838 has 1 MA's), (79, 66754), (83, 66721), (101, 66649), (120, 66577), (130, 66496), (133, 66451), (134, 66445), (136, 66439), (137, 66427), (139, 66421), (145, 66391), (161, 66289), (165, 66271), (173, 66226), (184, 66154), (186, 66139), (193, 66112), (195, 66103), (206, 66046), (221, 65962), (224, 65938), (234, 65908),

Gene: Acadian_90 Start: 67115, Stop: 66042, Start Num: 61

Candidate Starts for Acadian_90:

(Start: 61 @67115 has 144 MA's), (79, 67019), (83, 66986), (96, 66944), (116, 66863), (134, 66713), (136, 66707), (150, 66641), (174, 66488), (179, 66449), (183, 66434), (189, 66398), (192, 66389), (195, 66377), (198, 66368), (210, 66308), (212, 66299), (224, 66215), (225, 66209), (242, 66146), (255, 66080), (257, 66062),

Gene: Ahwei_89 Start: 67912, Stop: 66866, Start Num: 61

Candidate Starts for Ahwei_89:

(Start: 61 @67912 has 144 MA's), (73, 67858), (74, 67840), (79, 67798), (83, 67765), (84, 67750), (85, 67741), (90, 67723), (110, 67684), (111, 67669), (120, 67621), (128, 67558), (134, 67489), (136, 67483), (137, 67471), (156, 67363), (158, 67354), (161, 67333), (174, 67261), (186, 67183), (187, 67174), (189, 67168), (192, 67159), (198, 67138), (209, 67081), (216, 67051), (220, 67021), (221, 67009), (229, 66979), (240, 66925), (244, 66904), (251, 66871),

Gene: Akoma_98 Start: 66999, Stop: 65887, Start Num: 52

Candidate Starts for Akoma_98:

(24, 67119), (Start: 32 @67089 has 6 MA's), (Start: 52 @66999 has 17 MA's), (Start: 61 @66945 has 144 MA's), (Start: 70 @66915 has 1 MA's), (79, 66831), (83, 66798), (101, 66726), (120, 66654), (130, 66573), (133, 66528), (134, 66522), (136, 66516), (137, 66504), (145, 66468), (161, 66366), (165, 66348), (173, 66303), (184, 66231), (186, 66216), (193, 66189), (195, 66180), (206, 66123), (221, 66039), (224, 66015), (234, 65985),

Gene: AksarBAT_80 Start: 58876, Stop: 57869, Start Num: 61

Candidate Starts for AksarBAT_80:

(Start: 61 @58876 has 144 MA's), (79, 58780), (83, 58747), (102, 58681), (111, 58666), (113, 58660), (131, 58516), (133, 58492), (134, 58486), (137, 58468), (150, 58414), (156, 58363), (161, 58333), (169, 58282), (196, 58144), (210, 58078), (216, 58051), (217, 58045), (225, 57979), (236, 57943),

Gene: AlanGrant_92 Start: 69472, Stop: 68423, Start Num: 61

Candidate Starts for AlanGrant_92:

(11, 69811), (Start: 61 @69472 has 144 MA's), (73, 69418), (79, 69358), (80, 69352), (83, 69325), (87, 69292), (110, 69247), (111, 69232), (112, 69229), (120, 69184), (122, 69166), (125, 69136), (128, 69121), (133, 69058), (134, 69052), (136, 69046), (137, 69034), (141, 69016), (152, 68947), (154, 68938), (156, 68926), (161, 68896), (174, 68824), (181, 68779), (186, 68746), (189, 68731), (192, 68722), (209, 68644), (220, 68584), (221, 68572), (232, 68530), (241, 68476), (242, 68470), (244, 68461), (249, 68434), (251, 68428),

Gene: Allegro_85 Start: 64858, Stop: 63788, Start Num: 61

Candidate Starts for Allegro_85:

(22, 65053), (Start: 61 @64858 has 144 MA's), (Start: 70 @64828 has 1 MA's), (79, 64762), (81, 64753), (83, 64729), (85, 64705), (93, 64681), (114, 64585), (134, 64426), (136, 64420), (137, 64408), (145, 64375), (150, 64354), (157, 64297), (158, 64294), (165, 64255), (167, 64246), (171, 64216), (174, 64201), (177, 64183), (180, 64159), (184, 64138), (189, 64108), (195, 64087), (209, 64021), (210, 64018), (216, 63991), (217, 63985), (231, 63910), (237, 63874),

Gene: Altadena_70 Start: 44516, Stop: 43500, Start Num: 69

Candidate Starts for Altadena_70:

(Start: 69 @44516 has 6 MA's), (79, 44447), (82, 44429), (131, 44156), (133, 44132), (157, 44009), (162, 43982), (163, 43979), (184, 43850), (186, 43835), (188, 43823),

Gene: Amo99_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Amo99_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: AnarQue_81 Start: 60018, Stop: 58999, Start Num: 61

Candidate Starts for AnarQue_81:

(Start: 26 @60174 has 1 MA's), (45, 60096), (54, 60060), (Start: 61 @60018 has 144 MA's), (79, 59922), (83, 59889), (85, 59865), (87, 59856), (99, 59832), (110, 59814), (113, 59793), (131, 59646), (133, 59622), (134, 59616), (137, 59598), (153, 59508), (161, 59463), (169, 59412), (189, 59298), (210, 59208), (216, 59181), (217, 59175), (239, 59064),

Gene: Antihero_91 Start: 67837, Stop: 66791, Start Num: 61

Candidate Starts for Antihero_91:

(Start: 61 @67837 has 144 MA's), (73, 67783), (74, 67765), (79, 67723), (83, 67690), (84, 67675), (85, 67666), (90, 67648), (110, 67609), (111, 67594), (120, 67546), (128, 67483), (134, 67414), (136,

67408), (137, 67396), (156, 67288), (158, 67279), (161, 67258), (174, 67186), (186, 67108), (187, 67099), (189, 67093), (192, 67084), (198, 67063), (209, 67006), (216, 66976), (221, 66934), (229, 66904), (240, 66850), (244, 66829), (251, 66796),

Gene: Antuna_52 Start: 31056, Stop: 32108, Start Num: 56

Candidate Starts for Antuna_52:

(Start: 56 @31056 has 10 MA's), (Start: 63 @31098 has 1 MA's), (79, 31194), (84, 31242), (114, 31332), (134, 31491), (136, 31497), (138, 31512), (151, 31554), (155, 31593), (184, 31767), (207, 31875), (230, 31995), (239, 32037), (252, 32097),

Gene: Apex_93 Start: 68952, Stop: 67894, Start Num: 61

Candidate Starts for Apex_93:

(Start: 61 @68952 has 144 MA's), (73, 68898), (79, 68838), (80, 68832), (83, 68805), (84, 68790), (85, 68781), (90, 68763), (110, 68724), (112, 68706), (113, 68703), (120, 68661), (128, 68598), (134, 68529), (137, 68511), (141, 68493), (145, 68475), (156, 68403), (158, 68394), (161, 68373), (181, 68256), (183, 68247), (186, 68223), (187, 68214), (198, 68178), (209, 68121), (216, 68091), (220, 68061), (221, 68049), (223, 68028), (240, 67953), (244, 67932), (251, 67899),

Gene: Appa_50 Start: 30821, Stop: 31873, Start Num: 56

Candidate Starts for Appa_50:

(Start: 56 @30821 has 10 MA's), (Start: 63 @30863 has 1 MA's), (79, 30959), (84, 31007), (114, 31097), (134, 31256), (136, 31262), (138, 31277), (155, 31358), (184, 31532), (207, 31640), (230, 31760), (239, 31802), (252, 31862),

Gene: Arbiter_82 Start: 64898, Stop: 63828, Start Num: 61

Candidate Starts for Arbiter_82:

(Start: 61 @64898 has 144 MA's), (Start: 70 @64868 has 1 MA's), (79, 64802), (81, 64793), (83, 64769), (85, 64745), (93, 64721), (134, 64466), (136, 64460), (137, 64448), (145, 64415), (150, 64394), (157, 64337), (158, 64334), (165, 64295), (167, 64286), (171, 64256), (174, 64241), (177, 64223), (180, 64199), (184, 64178), (189, 64148), (195, 64127), (209, 64061), (210, 64058), (216, 64031), (217, 64025), (231, 63950), (237, 63914),

Gene: Ares_85 Start: 64857, Stop: 63787, Start Num: 61

Candidate Starts for Ares_85:

(Start: 61 @64857 has 144 MA's), (Start: 70 @64827 has 1 MA's), (79, 64761), (81, 64752), (83, 64728), (85, 64704), (93, 64680), (134, 64425), (136, 64419), (137, 64407), (145, 64374), (150, 64353), (157, 64296), (158, 64293), (165, 64254), (167, 64245), (171, 64215), (174, 64200), (177, 64182), (180, 64158), (184, 64137), (189, 64107), (195, 64086), (209, 64020), (210, 64017), (216, 63990), (217, 63984), (231, 63909), (237, 63873),

Gene: Athena_99 Start: 67785, Stop: 66583, Start Num: 32

Candidate Starts for Athena_99:

(24, 67815), (Start: 32 @67785 has 6 MA's), (Start: 52 @67695 has 17 MA's), (Start: 61 @67641 has 144 MA's), (Start: 70 @67611 has 1 MA's), (79, 67527), (83, 67494), (101, 67422), (120, 67350), (130, 67269), (133, 67224), (134, 67218), (136, 67212), (137, 67200), (145, 67164), (161, 67062), (165, 67044), (173, 66999), (184, 66927), (186, 66912), (193, 66885), (195, 66876), (206, 66819), (221, 66735), (224, 66711), (234, 66681),

Gene: Audrey_97 Start: 66949, Stop: 65837, Start Num: 52

Candidate Starts for Audrey_97:

(24, 67069), (Start: 32 @67039 has 6 MA's), (Start: 52 @66949 has 17 MA's), (Start: 61 @66895 has 144 MA's), (Start: 70 @66865 has 1 MA's), (79, 66781), (83, 66748), (101, 66676), (120, 66604), (130, 66523), (133, 66478), (134, 66472), (136, 66466), (137, 66454), (145, 66418), (161, 66316), (165,

66298), (173, 66253), (184, 66181), (186, 66166), (193, 66139), (195, 66130), (206, 66073), (221, 65989), (224, 65965), (234, 65935),

Gene: Austelle_92 Start: 69484, Stop: 68426, Start Num: 61

Candidate Starts for Austelle_92:

(Start: 61 @69484 has 144 MA's), (79, 69370), (80, 69364), (83, 69337), (84, 69322), (85, 69313), (90, 69295), (110, 69256), (112, 69238), (113, 69235), (120, 69193), (128, 69130), (134, 69061), (137, 69043), (141, 69025), (145, 69007), (156, 68935), (158, 68926), (161, 68905), (181, 68788), (183, 68779), (186, 68755), (187, 68746), (192, 68731), (198, 68710), (209, 68653), (216, 68623), (220, 68593), (221, 68581), (223, 68560), (240, 68485), (244, 68464), (249, 68437), (251, 68431),

Gene: Axumite_80 Start: 59316, Stop: 58309, Start Num: 61

Candidate Starts for Axumite_80:

(Start: 61 @59316 has 144 MA's), (79, 59220), (83, 59187), (84, 59172), (102, 59121), (111, 59106), (133, 58932), (134, 58926), (137, 58908), (150, 58854), (155, 58812), (156, 58803), (161, 58773), (169, 58722), (205, 58539), (209, 58521), (210, 58518), (217, 58485), (221, 58449), (247, 58326),

Gene: Bae_89 Start: 67621, Stop: 66548, Start Num: 61

Candidate Starts for Bae_89:

(35, 67735), (Start: 61 @67621 has 144 MA's), (79, 67525), (83, 67492), (116, 67369), (133, 67225), (134, 67219), (135, 67216), (136, 67213), (150, 67147), (174, 66994), (179, 66955), (183, 66940), (189, 66904), (192, 66895), (195, 66883), (198, 66874), (210, 66814), (212, 66805), (224, 66721), (225, 66715), (242, 66652), (255, 66586), (257, 66568),

Gene: Baloo_96 Start: 66892, Stop: 65690, Start Num: 32

Candidate Starts for Baloo_96:

(24, 66922), (Start: 32 @66892 has 6 MA's), (Start: 52 @66802 has 17 MA's), (Start: 61 @66748 has 144 MA's), (Start: 70 @66718 has 1 MA's), (79, 66634), (83, 66601), (101, 66529), (120, 66457), (130, 66376), (133, 66331), (134, 66325), (136, 66319), (137, 66307), (145, 66271), (161, 66169), (165, 66151), (173, 66106), (184, 66034), (186, 66019), (193, 65992), (195, 65983), (206, 65926), (221, 65842), (224, 65818), (234, 65788),

Gene: Bananafish_86 Start: 64794, Stop: 63724, Start Num: 61

Candidate Starts for Bananafish_86:

(Start: 61 @64794 has 144 MA's), (Start: 70 @64764 has 1 MA's), (79, 64698), (81, 64689), (83, 64665), (85, 64641), (93, 64617), (134, 64362), (136, 64356), (137, 64344), (145, 64311), (150, 64290), (157, 64233), (158, 64230), (165, 64191), (167, 64182), (171, 64152), (174, 64137), (177, 64119), (180, 64095), (184, 64074), (189, 64044), (195, 64023), (209, 63957), (210, 63954), (216, 63927), (217, 63921), (231, 63846), (237, 63810),

Gene: BarretLemon_78 Start: 50937, Stop: 49933, Start Num: 62

Candidate Starts for BarretLemon_78:

(Start: 62 @50937 has 2 MA's), (Start: 65 @50931 has 21 MA's), (82, 50835), (92, 50772), (131, 50574), (133, 50550), (134, 50544), (137, 50526), (138, 50523), (153, 50448), (163, 50397), (177, 50313), (186, 50253), (195, 50217), (202, 50184), (238, 50001), (248, 49950),

Gene: Beans_72 Start: 49478, Stop: 48408, Start Num: 55

Candidate Starts for Beans_72:

(Start: 55 @49478 has 2 MA's), (Start: 65 @49415 has 21 MA's), (92, 49253), (101, 49232), (110, 49214), (116, 49169), (118, 49160), (122, 49133), (131, 49049), (132, 49031), (133, 49025), (134, 49019), (137, 49001), (163, 48872), (184, 48743), (186, 48728), (226, 48521), (238, 48476), (249, 48422),

Gene: Ben11_97 Start: 67125, Stop: 66067, Start Num: 61

Candidate Starts for Ben11_97:

(24, 67299), (Start: 32 @67269 has 6 MA's), (Start: 52 @67179 has 17 MA's), (Start: 61 @67125 has 144 MA's), (Start: 70 @67095 has 1 MA's), (79, 67011), (83, 66978), (101, 66906), (120, 66834), (130, 66753), (133, 66708), (134, 66702), (136, 66696), (137, 66684), (145, 66648), (161, 66546), (165, 66528), (173, 66483), (184, 66411), (186, 66396), (193, 66369), (195, 66360), (206, 66303), (221, 66219), (224, 66195), (234, 66165),

Gene: Bernardo_94 Start: 66473, Stop: 65361, Start Num: 52

Candidate Starts for Bernardo_94:

(24, 66593), (Start: 32 @66563 has 6 MA's), (Start: 52 @66473 has 17 MA's), (Start: 61 @66419 has 144 MA's), (Start: 70 @66389 has 1 MA's), (79, 66305), (83, 66272), (101, 66200), (120, 66128), (130, 66047), (133, 66002), (134, 65996), (136, 65990), (137, 65978), (145, 65942), (161, 65840), (165, 65822), (173, 65777), (184, 65705), (186, 65690), (193, 65663), (195, 65654), (206, 65597), (221, 65513), (224, 65489), (234, 65459),

Gene: BigDome_77 Start: 50725, Stop: 49727, Start Num: 65

Candidate Starts for BigDome_77:

(Start: 62 @50731 has 2 MA's), (Start: 65 @50725 has 21 MA's), (82, 50629), (92, 50566), (100, 50548), (131, 50368), (133, 50344), (134, 50338), (137, 50320), (138, 50317), (153, 50242), (163, 50191), (186, 50047), (195, 50011), (202, 49978), (238, 49795), (248, 49744),

Gene: BiggityBass_78 Start: 60906, Stop: 59896, Start Num: 61

Candidate Starts for BiggityBass_78:

(53, 60951), (Start: 61 @60906 has 144 MA's), (79, 60810), (83, 60777), (96, 60735), (134, 60519), (136, 60513), (145, 60465), (147, 60456), (156, 60393), (161, 60363), (167, 60336), (177, 60273), (183, 60237), (189, 60198), (210, 60108), (221, 60039), (224, 60015), (225, 60009), (242, 59949),

Gene: Blackpen_78 Start: 58482, Stop: 57463, Start Num: 61

Candidate Starts for Blackpen_78:

(Start: 26 @58638 has 1 MA's), (45, 58560), (54, 58524), (Start: 61 @58482 has 144 MA's), (79, 58386), (83, 58353), (85, 58329), (87, 58320), (99, 58296), (110, 58278), (113, 58257), (131, 58110), (133, 58086), (134, 58080), (137, 58062), (150, 58008), (153, 57972), (161, 57927), (169, 57876), (189, 57762), (210, 57672), (216, 57645), (217, 57639), (239, 57528),

Gene: Blett_50 Start: 31007, Stop: 32059, Start Num: 56

Candidate Starts for Blett_50:

(Start: 56 @31007 has 10 MA's), (Start: 63 @31049 has 1 MA's), (79, 31145), (84, 31193), (114, 31283), (134, 31442), (136, 31448), (138, 31463), (151, 31505), (155, 31544), (156, 31553), (184, 31718), (207, 31826), (230, 31946), (239, 31988), (252, 32048),

Gene: Blocker23_85 Start: 64859, Stop: 63789, Start Num: 61

Candidate Starts for Blocker23_85:

(Start: 61 @64859 has 144 MA's), (Start: 70 @64829 has 1 MA's), (79, 64763), (81, 64754), (83, 64730), (85, 64706), (93, 64682), (134, 64427), (136, 64421), (137, 64409), (145, 64376), (150, 64355), (157, 64298), (158, 64295), (165, 64256), (167, 64247), (171, 64217), (174, 64202), (177, 64184), (180, 64160), (184, 64139), (189, 64109), (195, 64088), (209, 64022), (210, 64019), (216, 63992), (217, 63986), (231, 63911), (237, 63875),

Gene: Bloom_179 Start: 116047, Stop: 117021, Start Num: 61

Candidate Starts for Bloom_179:

(Start: 61 @116047 has 144 MA's), (72, 116089), (133, 116428), (149, 116491), (154, 116533), (164, 116587), (177, 116665), (208, 116809), (214, 116836), (215, 116842), (243, 116980),

Gene: BobRoss2024_83 Start: 59994, Stop: 58984, Start Num: 61

Candidate Starts for BobRoss2024_83:

(Start: 61 @59994 has 144 MA's), (79, 59898), (83, 59865), (102, 59799), (113, 59778), (131, 59634), (133, 59610), (134, 59604), (137, 59586), (153, 59496), (155, 59490), (156, 59481), (161, 59451), (169, 59400), (184, 59316), (189, 59283), (196, 59259), (205, 59214), (209, 59196), (210, 59193), (217, 59160),

Gene: BobbyK_92 Start: 68460, Stop: 67402, Start Num: 61

Candidate Starts for BobbyK_92:

(Start: 61 @68460 has 144 MA's), (73, 68406), (74, 68388), (79, 68346), (80, 68340), (83, 68313), (84, 68298), (85, 68289), (90, 68271), (110, 68232), (112, 68214), (120, 68169), (128, 68106), (134, 68037), (137, 68019), (141, 68001), (145, 67983), (156, 67911), (158, 67902), (161, 67881), (181, 67764), (183, 67755), (186, 67731), (187, 67722), (192, 67707), (198, 67686), (209, 67629), (216, 67599), (220, 67569), (221, 67557), (223, 67536), (240, 67461), (244, 67440), (251, 67407),

Gene: Bolt007_73 Start: 46402, Stop: 45404, Start Num: 69

Candidate Starts for Bolt007_73:

(Start: 69 @46402 has 6 MA's), (82, 46315), (131, 46057), (133, 46033), (163, 45880), (184, 45751), (186, 45736), (188, 45724), (211, 45622), (219, 45580), (221, 45559),

Gene: BossLady_78 Start: 50700, Stop: 49705, Start Num: 65

Candidate Starts for BossLady_78:

(Start: 65 @50700 has 21 MA's), (82, 50607), (92, 50544), (100, 50526), (131, 50346), (133, 50322), (134, 50316), (137, 50298), (138, 50295), (153, 50220), (163, 50169), (184, 50040), (186, 50025), (195, 49989), (202, 49956), (238, 49773),

Gene: Boyle_85 Start: 64906, Stop: 63836, Start Num: 61

Candidate Starts for Boyle_85:

(Start: 61 @64906 has 144 MA's), (Start: 70 @64876 has 1 MA's), (79, 64810), (81, 64801), (83, 64777), (85, 64753), (93, 64729), (134, 64474), (136, 64468), (137, 64456), (145, 64423), (150, 64402), (157, 64345), (158, 64342), (165, 64303), (167, 64294), (171, 64264), (174, 64249), (177, 64231), (180, 64207), (184, 64186), (189, 64156), (195, 64135), (209, 64069), (210, 64066), (216, 64039), (217, 64033), (231, 63958), (237, 63922),

Gene: Brent_73 Start: 49498, Stop: 48494, Start Num: 65

Candidate Starts for Brent_73:

(Start: 57 @49543 has 2 MA's), (59, 49516), (Start: 65 @49498 has 21 MA's), (101, 49318), (110, 49300), (116, 49255), (118, 49246), (122, 49219), (131, 49135), (133, 49111), (134, 49105), (137, 49087), (163, 48958), (184, 48829), (186, 48814), (226, 48607), (238, 48562), (249, 48508),

Gene: Briakila_98 Start: 67399, Stop: 66341, Start Num: 61

Candidate Starts for Briakila_98:

(24, 67573), (Start: 32 @67543 has 6 MA's), (Start: 52 @67453 has 17 MA's), (Start: 61 @67399 has 144 MA's), (Start: 70 @67369 has 1 MA's), (79, 67285), (83, 67252), (101, 67180), (120, 67108), (130, 67027), (133, 66982), (134, 66976), (136, 66970), (137, 66958), (139, 66952), (145, 66922), (161, 66820), (165, 66802), (173, 66757), (184, 66685), (186, 66670), (193, 66643), (195, 66634), (206, 66577), (221, 66493), (224, 66469), (234, 66439),

Gene: BrownCNA_92 Start: 68899, Stop: 67841, Start Num: 61

Candidate Starts for BrownCNA_92:

(Start: 61 @68899 has 144 MA's), (79, 68785), (80, 68779), (83, 68752), (84, 68737), (85, 68728), (90, 68710), (110, 68671), (112, 68653), (120, 68608), (128, 68545), (134, 68476), (137, 68458), (141,

68440), (144, 68428), (145, 68422), (156, 68350), (158, 68341), (161, 68320), (181, 68203), (183, 68194), (186, 68170), (187, 68161), (192, 68146), (198, 68125), (209, 68068), (216, 68038), (221, 67996), (223, 67975), (240, 67900), (244, 67879), (249, 67852), (251, 67846),

Gene: Brownie5_85 Start: 64906, Stop: 63836, Start Num: 61

Candidate Starts for Brownie5_85:

(Start: 61 @64906 has 144 MA's), (Start: 70 @64876 has 1 MA's), (79, 64810), (81, 64801), (83, 64777), (85, 64753), (93, 64729), (134, 64474), (136, 64468), (137, 64456), (145, 64423), (150, 64402), (157, 64345), (158, 64342), (165, 64303), (167, 64294), (171, 64264), (174, 64249), (180, 64207), (184, 64186), (189, 64156), (195, 64135), (209, 64069), (210, 64066), (216, 64039), (217, 64033), (231, 63958), (237, 63922),

Gene: Bumble_71 Start: 45632, Stop: 44619, Start Num: 69

Candidate Starts for Bumble_71:

(Start: 69 @45632 has 6 MA's), (79, 45563), (82, 45545), (131, 45275), (133, 45251), (155, 45143), (157, 45128), (162, 45101), (163, 45098), (184, 44969), (186, 44954), (239, 44693), (252, 44633),

Gene: Bush_51 Start: 30955, Stop: 32007, Start Num: 56

Candidate Starts for Bush_51:

(Start: 56 @30955 has 10 MA's), (Start: 63 @30997 has 1 MA's), (79, 31093), (84, 31141), (114, 31231), (134, 31390), (136, 31396), (138, 31411), (151, 31453), (155, 31492), (156, 31501), (184, 31666), (207, 31774), (230, 31894), (239, 31936), (252, 31996),

Gene: CRB2_89 Start: 68970, Stop: 67930, Start Num: 61

Candidate Starts for CRB2_89:

(29, 69111), (Start: 61 @68970 has 144 MA's), (64, 68961), (79, 68874), (83, 68841), (84, 68826), (96, 68799), (100, 68781), (102, 68775), (111, 68760), (120, 68712), (133, 68586), (134, 68580), (136, 68574), (137, 68562), (147, 68520), (150, 68508), (154, 68469), (158, 68448), (169, 68376), (171, 68370), (173, 68364), (183, 68301), (189, 68262), (192, 68253), (195, 68241), (198, 68232), (207, 68184), (209, 68175), (210, 68172), (212, 68163), (221, 68103), (224, 68079), (225, 68073), (236, 68037), (242, 68013), (246, 67986), (253, 67962),

Gene: CaiB_80 Start: 59816, Stop: 58797, Start Num: 61

Candidate Starts for CaiB_80:

(Start: 26 @59972 has 1 MA's), (45, 59894), (54, 59858), (Start: 61 @59816 has 144 MA's), (79, 59720), (83, 59687), (85, 59663), (87, 59654), (99, 59630), (110, 59612), (113, 59591), (131, 59444), (133, 59420), (134, 59414), (137, 59396), (150, 59342), (153, 59306), (161, 59261), (169, 59210), (189, 59096), (210, 59006), (216, 58979), (217, 58973), (239, 58862),

Gene: CalWood4100_76 Start: 46704, Stop: 45700, Start Num: 66

Candidate Starts for CalWood4100_76:

(Start: 66 @46704 has 1 MA's), (79, 46629), (82, 46611), (131, 46353), (133, 46329), (184, 46047), (192, 46008), (193, 46005),

Gene: Calamitous_86 Start: 64789, Stop: 63719, Start Num: 61

Candidate Starts for Calamitous_86:

(Start: 61 @64789 has 144 MA's), (Start: 70 @64759 has 1 MA's), (79, 64693), (81, 64684), (83, 64660), (85, 64636), (93, 64612), (134, 64357), (136, 64351), (137, 64339), (145, 64306), (150, 64285), (157, 64228), (158, 64225), (165, 64186), (167, 64177), (171, 64147), (174, 64132), (177, 64114), (180, 64090), (184, 64069), (189, 64039), (195, 64018), (209, 63952), (210, 63949), (216, 63922), (217, 63916), (231, 63841), (237, 63805),

Gene: Carrillo_52 Start: 30929, Stop: 31981, Start Num: 56

Candidate Starts for Carrillo_52:

(Start: 56 @30929 has 10 MA's), (Start: 63 @30971 has 1 MA's), (79, 31067), (84, 31115), (114, 31205), (134, 31364), (136, 31370), (138, 31385), (151, 31427), (155, 31466), (184, 31640), (207, 31748), (230, 31868), (239, 31910), (252, 31970),

Gene: Casbah_97 Start: 67210, Stop: 66152, Start Num: 61

Candidate Starts for Casbah_97:

(24, 67384), (Start: 32 @67354 has 6 MA's), (Start: 52 @67264 has 17 MA's), (Start: 61 @67210 has 144 MA's), (Start: 70 @67180 has 1 MA's), (79, 67096), (83, 67063), (101, 66991), (120, 66919), (130, 66838), (133, 66793), (134, 66787), (136, 66781), (137, 66769), (145, 66733), (161, 66631), (165, 66613), (173, 66568), (184, 66496), (186, 66481), (193, 66454), (195, 66445), (206, 66388), (221, 66304), (224, 66280), (234, 66250),

Gene: Causa_155 Start: 87546, Stop: 86410, Start Num: 44

Candidate Starts for Causa_155:

(Start: 44 @87546 has 2 MA's), (79, 87360), (83, 87327), (84, 87312), (112, 87231), (121, 87183), (129, 87117), (134, 87054), (173, 86835), (175, 86817), (182, 86775), (183, 86772), (197, 86706), (206, 86655), (209, 86643), (211, 86634), (216, 86613), (224, 86547), (225, 86541), (228, 86535),

Gene: ChaChing_97 Start: 67052, Stop: 65850, Start Num: 32

Candidate Starts for ChaChing_97:

(24, 67082), (Start: 32 @67052 has 6 MA's), (Start: 52 @66962 has 17 MA's), (Start: 61 @66908 has 144 MA's), (Start: 70 @66878 has 1 MA's), (79, 66794), (83, 66761), (101, 66689), (120, 66617), (130, 66536), (133, 66491), (134, 66485), (136, 66479), (137, 66467), (145, 66431), (161, 66329), (165, 66311), (173, 66266), (184, 66194), (186, 66179), (193, 66152), (195, 66143), (206, 66086), (221, 66002), (224, 65978), (234, 65948),

Gene: Chalmers_97 Start: 67646, Stop: 66588, Start Num: 61

Candidate Starts for Chalmers_97:

(24, 67820), (Start: 32 @67790 has 6 MA's), (Start: 52 @67700 has 17 MA's), (Start: 61 @67646 has 144 MA's), (Start: 70 @67616 has 1 MA's), (79, 67532), (83, 67499), (101, 67427), (120, 67355), (130, 67274), (133, 67229), (134, 67223), (136, 67217), (137, 67205), (145, 67169), (161, 67067), (165, 67049), (173, 67004), (184, 66932), (186, 66917), (193, 66890), (195, 66881), (206, 66824), (221, 66740), (224, 66716), (234, 66686),

Gene: Chandler_97 Start: 67738, Stop: 66626, Start Num: 52

Candidate Starts for Chandler_97:

(24, 67858), (Start: 32 @67828 has 6 MA's), (Start: 52 @67738 has 17 MA's), (Start: 61 @67684 has 144 MA's), (Start: 70 @67654 has 1 MA's), (79, 67570), (83, 67537), (101, 67465), (120, 67393), (130, 67312), (133, 67267), (134, 67261), (136, 67255), (137, 67243), (145, 67207), (161, 67105), (165, 67087), (173, 67042), (184, 66970), (186, 66955), (193, 66928), (195, 66919), (206, 66862), (221, 66778), (224, 66754), (234, 66724),

Gene: CharlottesWeb_76 Start: 57928, Stop: 56921, Start Num: 61

Candidate Starts for CharlottesWeb_76:

(20, 58141), (25, 58096), (43, 58012), (45, 58006), (54, 57970), (Start: 61 @57928 has 144 MA's), (79, 57832), (83, 57799), (84, 57784), (102, 57733), (111, 57718), (131, 57568), (133, 57544), (134, 57538), (137, 57520), (150, 57466), (155, 57424), (156, 57415), (161, 57385), (169, 57334), (184, 57250), (205, 57151), (209, 57133), (210, 57130), (217, 57097), (221, 57061),

Gene: Chentzyk_99 Start: 67894, Stop: 66782, Start Num: 52

Candidate Starts for Chentzyk_99:

(24, 68014), (Start: 32 @67984 has 6 MA's), (Start: 52 @67894 has 17 MA's), (Start: 61 @67840 has 144 MA's), (Start: 70 @67810 has 1 MA's), (79, 67726), (83, 67693), (101, 67621), (120, 67549), (130, 67468), (133, 67423), (134, 67417), (136, 67411), (137, 67399), (139, 67393), (145, 67363), (161, 67261), (165, 67243), (173, 67198), (184, 67126), (186, 67111), (193, 67084), (195, 67075), (206, 67018), (221, 66934), (224, 66910), (234, 66880),

Gene: Chilliams_172 Start: 106822, Stop: 107802, Start Num: 61

Candidate Starts for Chilliams_172:

(Start: 61 @106822 has 144 MA's), (67, 106840), (72, 106864), (133, 107200), (149, 107263), (160, 107341), (177, 107437), (205, 107569), (208, 107581), (215, 107614), (245, 107782),

Gene: ChrisnMich_93 Start: 67523, Stop: 66477, Start Num: 61

Candidate Starts for ChrisnMich_93:

(51, 67580), (Start: 61 @67523 has 144 MA's), (74, 67451), (79, 67409), (83, 67376), (84, 67361), (85, 67352), (90, 67334), (110, 67295), (111, 67280), (112, 67277), (120, 67232), (128, 67169), (134, 67100), (136, 67094), (137, 67082), (141, 67064), (156, 66974), (158, 66965), (161, 66944), (167, 66917), (174, 66872), (181, 66827), (184, 66809), (186, 66794), (187, 66785), (189, 66779), (192, 66770), (198, 66749), (209, 66692), (216, 66662), (220, 66632), (221, 66620), (240, 66536), (244, 66515), (251, 66482),

Gene: Circuit_70 Start: 45977, Stop: 44967, Start Num: 69

Candidate Starts for Circuit_70:

(Start: 69 @45977 has 6 MA's), (79, 45908), (82, 45890), (131, 45620), (133, 45596), (155, 45488), (157, 45473), (162, 45446), (163, 45443), (184, 45314), (186, 45299), (188, 45287),

Gene: Clawz_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Clawz_1:

(Start: 61 @1 has 144 MA's), (79, 97), (85, 154), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (184, 703), (192, 745), (194, 754), (195, 757), (200, 778),

Gene: CloverMinnie_79 Start: 59450, Stop: 58275, Start Num: 26

Candidate Starts for CloverMinnie_79:

(Start: 26 @59450 has 1 MA's), (45, 59372), (54, 59336), (Start: 61 @59294 has 144 MA's), (79, 59198), (83, 59165), (85, 59141), (87, 59132), (99, 59108), (110, 59090), (113, 59069), (131, 58922), (133, 58898), (134, 58892), (137, 58874), (150, 58820), (153, 58784), (161, 58739), (169, 58688), (189, 58574), (210, 58484), (216, 58457), (217, 58451), (239, 58340),

Gene: Coffee_84 Start: 64899, Stop: 63829, Start Num: 61

Candidate Starts for Coffee_84:

(Start: 61 @64899 has 144 MA's), (Start: 70 @64869 has 1 MA's), (79, 64803), (81, 64794), (83, 64770), (85, 64746), (93, 64722), (134, 64467), (136, 64461), (137, 64449), (145, 64416), (150, 64395), (157, 64338), (158, 64335), (165, 64296), (167, 64287), (171, 64257), (174, 64242), (177, 64224), (180, 64200), (184, 64179), (189, 64149), (195, 64128), (209, 64062), (210, 64059), (216, 64032), (217, 64026), (231, 63951), (237, 63915),

Gene: ColdSoup_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for ColdSoup_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: Coldpizza_75 Start: 59810, Stop: 58806, Start Num: 61

Candidate Starts for Coldpizza_75:

(Start: 61 @59810 has 144 MA's), (79, 59714), (83, 59681), (85, 59657), (98, 59627), (110, 59618), (112, 59600), (114, 59582), (121, 59552), (134, 59423), (141, 59387), (145, 59369), (154, 59309), (157, 59291), (161, 59267), (186, 59117), (189, 59102), (198, 59072), (210, 59012), (224, 58919),

Gene: Compostia_96 Start: 67362, Stop: 66304, Start Num: 61

Candidate Starts for Compostia_96:

(24, 67536), (Start: 32 @67506 has 6 MA's), (Start: 52 @67416 has 17 MA's), (Start: 61 @67362 has 144 MA's), (Start: 70 @67332 has 1 MA's), (79, 67248), (83, 67215), (101, 67143), (120, 67071), (130, 66990), (133, 66945), (134, 66939), (136, 66933), (137, 66921), (145, 66885), (161, 66783), (165, 66765), (173, 66720), (184, 66648), (186, 66633), (193, 66606), (195, 66597), (206, 66540), (221, 66456), (224, 66432), (234, 66402),

Gene: CookieDog_50 Start: 30929, Stop: 31981, Start Num: 56

Candidate Starts for CookieDog_50:

(Start: 56 @30929 has 10 MA's), (Start: 63 @30971 has 1 MA's), (79, 31067), (84, 31115), (114, 31205), (134, 31364), (136, 31370), (138, 31385), (151, 31427), (155, 31466), (184, 31640), (207, 31748), (230, 31868), (239, 31910), (252, 31970),

Gene: Cooper_93 Start: 68069, Stop: 67017, Start Num: 61

Candidate Starts for Cooper_93:

(51, 68126), (Start: 61 @68069 has 144 MA's), (74, 67997), (79, 67955), (83, 67922), (84, 67907), (85, 67898), (90, 67880), (107, 67838), (110, 67835), (111, 67820), (112, 67817), (120, 67772), (128, 67709), (134, 67640), (136, 67634), (137, 67622), (141, 67604), (156, 67514), (158, 67505), (161, 67484), (167, 67457), (174, 67412), (181, 67367), (184, 67349), (186, 67334), (187, 67325), (189, 67319), (192, 67310), (198, 67289), (209, 67232), (216, 67202), (220, 67172), (221, 67160), (240, 67076), (244, 67055), (251, 67022),

Gene: Corofin_97 Start: 66919, Stop: 65861, Start Num: 61

Candidate Starts for Corofin_97:

(24, 67093), (Start: 32 @67063 has 6 MA's), (Start: 52 @66973 has 17 MA's), (Start: 61 @66919 has 144 MA's), (Start: 70 @66889 has 1 MA's), (79, 66805), (83, 66772), (101, 66700), (120, 66628), (130, 66547), (133, 66502), (134, 66496), (136, 66490), (137, 66478), (139, 66472), (145, 66442), (161, 66340), (165, 66322), (173, 66277), (184, 66205), (186, 66190), (193, 66163), (195, 66154), (206, 66097), (221, 66013), (224, 65989), (234, 65959),

Gene: Daisy_96 Start: 66522, Stop: 65410, Start Num: 52

Candidate Starts for Daisy_96:

(24, 66642), (Start: 32 @66612 has 6 MA's), (Start: 52 @66522 has 17 MA's), (Start: 61 @66468 has 144 MA's), (Start: 70 @66438 has 1 MA's), (79, 66354), (83, 66321), (101, 66249), (120, 66177), (130, 66096), (133, 66051), (134, 66045), (136, 66039), (137, 66027), (145, 65991), (161, 65889), (165, 65871), (173, 65826), (184, 65754), (186, 65739), (193, 65712), (195, 65703), (206, 65646), (221, 65562), (224, 65538), (234, 65508),

Gene: Deenasa_98 Start: 68122, Stop: 67064, Start Num: 61

Candidate Starts for Deenasa_98:

(24, 68296), (Start: 32 @68266 has 6 MA's), (Start: 52 @68176 has 17 MA's), (Start: 61 @68122 has 144 MA's), (Start: 70 @68092 has 1 MA's), (79, 68008), (83, 67975), (101, 67903), (120, 67831), (130, 67750), (133, 67705), (134, 67699), (136, 67693), (137, 67681), (139, 67675), (145, 67645), (161, 67543), (165, 67525), (173, 67480), (184, 67408), (186, 67393), (193, 67366), (195, 67357), (206, 67300), (221, 67216), (224, 67192), (234, 67162),

Gene: Devonte_95 Start: 66534, Stop: 65476, Start Num: 61

Candidate Starts for Devonte_95:

(24, 66708), (Start: 32 @66678 has 6 MA's), (Start: 52 @66588 has 17 MA's), (Start: 61 @66534 has 144 MA's), (Start: 70 @66504 has 1 MA's), (79, 66420), (83, 66387), (101, 66315), (120, 66243), (130, 66162), (133, 66117), (134, 66111), (136, 66105), (137, 66093), (145, 66057), (161, 65955), (165, 65937), (173, 65892), (184, 65820), (186, 65805), (193, 65778), (195, 65769), (206, 65712), (221, 65628), (224, 65604), (234, 65574),

Gene: DigitDog_92 Start: 67609, Stop: 66536, Start Num: 61

Candidate Starts for DigitDog_92:

(13, 67918), (21, 67804), (27, 67762), (Start: 61 @67609 has 144 MA's), (79, 67513), (83, 67480), (96, 67438), (106, 67408), (114, 67366), (116, 67357), (134, 67207), (136, 67201), (150, 67135), (158, 67075), (174, 66982), (175, 66973), (179, 66943), (183, 66928), (187, 66895), (189, 66889), (192, 66880), (195, 66868), (210, 66799), (211, 66793), (212, 66790), (224, 66706), (225, 66700), (236, 66661), (255, 66571), (256, 66568), (257, 66553),

Gene: DonTron_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for DonTron_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: Donny_90 Start: 66942, Stop: 65869, Start Num: 61

Candidate Starts for Donny_90:

(27, 67095), (Start: 61 @66942 has 144 MA's), (79, 66846), (83, 66813), (96, 66771), (116, 66690), (134, 66540), (136, 66534), (150, 66468), (174, 66315), (179, 66276), (183, 66261), (189, 66225), (192, 66216), (195, 66204), (198, 66195), (210, 66135), (212, 66126), (224, 66042), (225, 66036), (242, 65973), (253, 65922), (255, 65907), (257, 65889),

Gene: Dropshot_50 Start: 30656, Stop: 31708, Start Num: 56

Candidate Starts for Dropshot_50:

(Start: 56 @30656 has 10 MA's), (Start: 63 @30698 has 1 MA's), (79, 30794), (84, 30842), (114, 30932), (134, 31091), (136, 31097), (138, 31112), (155, 31193), (184, 31367), (207, 31475), (230, 31595), (239, 31637), (252, 31697),

Gene: Eaglehorse_86 Start: 64784, Stop: 63714, Start Num: 61

Candidate Starts for Eaglehorse_86:

(Start: 61 @64784 has 144 MA's), (Start: 70 @64754 has 1 MA's), (79, 64688), (81, 64679), (83, 64655), (85, 64631), (93, 64607), (134, 64352), (136, 64346), (137, 64334), (145, 64301), (150, 64280), (157, 64223), (158, 64220), (165, 64181), (167, 64172), (171, 64142), (174, 64127), (180, 64085), (184, 64064), (189, 64034), (195, 64013), (209, 63947), (210, 63944), (216, 63917), (217, 63911), (231, 63836), (237, 63800),

Gene: EastView9101_90 Start: 67134, Stop: 66061, Start Num: 61

Candidate Starts for EastView9101_90:

(27, 67287), (Start: 61 @67134 has 144 MA's), (79, 67038), (83, 67005), (96, 66963), (116, 66882), (134, 66732), (136, 66726), (150, 66660), (168, 66546), (174, 66507), (179, 66468), (183, 66453), (189, 66417), (192, 66408), (195, 66396), (198, 66387), (210, 66327), (212, 66318), (224, 66234), (225, 66228), (242, 66165), (255, 66099), (257, 66081),

Gene: EastWest_82 Start: 49764, Stop: 48769, Start Num: 65

Candidate Starts for EastWest_82:

(Start: 65 @49764 has 21 MA's), (82, 49671), (92, 49608), (100, 49590), (110, 49575), (131, 49410), (134, 49380), (137, 49362), (155, 49278), (162, 49236), (163, 49233), (168, 49206), (195, 49053), (202, 49020), (238, 48837),

Gene: Epah_91 Start: 67837, Stop: 66791, Start Num: 61

Candidate Starts for Epah_91:

(Start: 61 @67837 has 144 MA's), (73, 67783), (74, 67765), (79, 67723), (83, 67690), (84, 67675), (85, 67666), (90, 67648), (110, 67609), (111, 67594), (120, 67546), (128, 67483), (134, 67414), (136, 67408), (137, 67396), (156, 67288), (158, 67279), (161, 67258), (174, 67186), (186, 67108), (187, 67099), (189, 67093), (192, 67084), (198, 67063), (209, 67006), (216, 66976), (221, 66934), (229, 66904), (240, 66850), (244, 66829), (251, 66796),

Gene: Evaa_80 Start: 59121, Stop: 58117, Start Num: 61

Candidate Starts for Evaa_80:

(Start: 61 @59121 has 144 MA's), (71, 59088), (79, 59025), (83, 58992), (85, 58968), (87, 58959), (110, 58929), (112, 58911), (113, 58908), (114, 58893), (120, 58866), (134, 58734), (136, 58728), (141, 58698), (157, 58602), (161, 58578), (167, 58551), (185, 58440), (186, 58428), (193, 58401), (223, 58233), (224, 58230),

Gene: Fanaw_87 Start: 68504, Stop: 67437, Start Num: 61

Candidate Starts for Fanaw_87:

(Start: 61 @68504 has 144 MA's), (79, 68390), (80, 68384), (83, 68357), (84, 68342), (85, 68333), (90, 68315), (92, 68309), (110, 68267), (112, 68249), (120, 68204), (128, 68141), (134, 68072), (137, 68054), (141, 68036), (145, 68018), (156, 67946), (158, 67937), (161, 67916), (181, 67799), (183, 67790), (186, 67766), (187, 67757), (192, 67742), (198, 67721), (209, 67664), (216, 67634), (220, 67604), (221, 67592), (223, 67571), (240, 67496), (244, 67475), (249, 67448), (251, 67442),

Gene: Faze9_84 Start: 64921, Stop: 63851, Start Num: 61

Candidate Starts for Faze9_84:

(Start: 61 @64921 has 144 MA's), (Start: 70 @64891 has 1 MA's), (79, 64825), (81, 64816), (83, 64792), (85, 64768), (93, 64744), (134, 64489), (136, 64483), (137, 64471), (145, 64438), (150, 64417), (157, 64360), (158, 64357), (165, 64318), (167, 64309), (171, 64279), (174, 64264), (177, 64246), (180, 64222), (184, 64201), (189, 64171), (195, 64150), (209, 64084), (210, 64081), (216, 64054), (217, 64048), (231, 63973), (237, 63937),

Gene: FelixTres_81 Start: 59260, Stop: 58241, Start Num: 61

Candidate Starts for FelixTres_81:

(Start: 26 @59416 has 1 MA's), (45, 59338), (54, 59302), (Start: 61 @59260 has 144 MA's), (79, 59164), (83, 59131), (85, 59107), (87, 59098), (99, 59074), (110, 59056), (113, 59035), (131, 58888), (133, 58864), (134, 58858), (137, 58840), (150, 58786), (153, 58750), (161, 58705), (169, 58654), (189, 58540), (210, 58450), (216, 58423), (217, 58417), (239, 58306),

Gene: FloraSnap32_172 Start: 114366, Stop: 115340, Start Num: 61

Candidate Starts for FloraSnap32_172:

(Start: 61 @114366 has 144 MA's), (72, 114408), (78, 114465), (130, 114702), (133, 114747), (149, 114810), (173, 114957), (177, 114984), (208, 115128), (214, 115155), (215, 115161), (243, 115299),

Gene: ForDig_92 Start: 68734, Stop: 67697, Start Num: 61

Candidate Starts for ForDig_92:

(46, 68815), (Start: 61 @68734 has 144 MA's), (Start: 70 @68704 has 1 MA's), (74, 68662), (79, 68620), (83, 68587), (87, 68554), (110, 68524), (120, 68461), (134, 68329), (136, 68323), (137, 68311), (156, 68203), (158, 68194), (161, 68173), (166, 68149), (167, 68146), (174, 68101), (186, 68023), (216, 67891), (223, 67828), (240, 67756),

Gene: Fortunato_89 Start: 68261, Stop: 67203, Start Num: 61

Candidate Starts for Fortunato_89:

(Start: 61 @68261 has 144 MA's), (73, 68207), (79, 68147), (80, 68141), (83, 68114), (84, 68099), (85, 68090), (90, 68072), (110, 68033), (112, 68015), (120, 67970), (128, 67907), (134, 67838), (137, 67820), (141, 67802), (145, 67784), (156, 67712), (158, 67703), (161, 67682), (181, 67565), (183, 67556), (186, 67532), (187, 67523), (192, 67508), (198, 67487), (209, 67430), (216, 67400), (220, 67370), (221, 67358), (223, 67337), (240, 67262), (244, 67241), (249, 67214), (251, 67208),

Gene: Franzy_71 Start: 49640, Stop: 48591, Start Num: 57

Candidate Starts for Franzy_71:

(Start: 57 @49640 has 2 MA's), (Start: 65 @49595 has 21 MA's), (101, 49415), (110, 49397), (116, 49352), (118, 49343), (122, 49316), (131, 49232), (133, 49208), (134, 49202), (137, 49184), (163, 49055), (184, 48926), (186, 48911), (226, 48704), (238, 48659), (249, 48605),

Gene: Frederick_93 Start: 68766, Stop: 67708, Start Num: 61

Candidate Starts for Frederick_93:

(Start: 61 @68766 has 144 MA's), (73, 68712), (74, 68694), (79, 68652), (80, 68646), (83, 68619), (84, 68604), (85, 68595), (90, 68577), (110, 68538), (112, 68520), (120, 68475), (128, 68412), (134, 68343), (137, 68325), (141, 68307), (145, 68289), (156, 68217), (158, 68208), (161, 68187), (181, 68070), (183, 68061), (186, 68037), (187, 68028), (192, 68013), (198, 67992), (209, 67935), (216, 67905), (220, 67875), (221, 67863), (223, 67842), (240, 67767), (244, 67746), (251, 67713),

Gene: FrenchFry_86 Start: 64908, Stop: 63838, Start Num: 61

Candidate Starts for FrenchFry_86:

(Start: 61 @64908 has 144 MA's), (Start: 70 @64878 has 1 MA's), (79, 64812), (81, 64803), (83, 64779), (85, 64755), (93, 64731), (134, 64476), (136, 64470), (137, 64458), (145, 64425), (150, 64404), (157, 64347), (158, 64344), (165, 64305), (167, 64296), (171, 64266), (174, 64251), (177, 64233), (180, 64209), (184, 64188), (189, 64158), (195, 64137), (209, 64071), (210, 64068), (216, 64041), (217, 64035), (231, 63960), (237, 63924),

Gene: Fresco_80 Start: 59322, Stop: 58315, Start Num: 61

Candidate Starts for Fresco_80:

(Start: 61 @59322 has 144 MA's), (79, 59226), (83, 59193), (84, 59178), (102, 59127), (111, 59112), (133, 58938), (134, 58932), (137, 58914), (150, 58860), (155, 58818), (156, 58809), (161, 58779), (169, 58728), (205, 58545), (209, 58527), (210, 58524), (217, 58491), (221, 58455), (247, 58332),

Gene: FrostedClock_178 Start: 116616, Stop: 117590, Start Num: 61

Candidate Starts for FrostedClock_178:

(Start: 61 @116616 has 144 MA's), (72, 116658), (133, 116997), (149, 117060), (154, 117102), (164, 117156), (177, 117234), (208, 117378), (214, 117405), (215, 117411), (243, 117549),

Gene: Funsized_89 Start: 69514, Stop: 68426, Start Num: 61

Candidate Starts for Funsized_89:

(Start: 52 @69568 has 17 MA's), (Start: 61 @69514 has 144 MA's), (79, 69418), (83, 69385), (87, 69352), (98, 69304), (100, 69298), (102, 69292), (108, 69280), (110, 69268), (121, 69202), (126, 69151), (134, 69073), (136, 69067), (139, 69049), (150, 69001), (158, 68941), (165, 68902), (167, 68893), (168, 68887), (169, 68869), (179, 68809), (183, 68794), (189, 68755), (195, 68734), (207, 68677), (210, 68665), (211, 68659), (212, 68656), (222, 68584), (224, 68572),

Gene: Gadget_96 Start: 66316, Stop: 65114, Start Num: 32

Candidate Starts for Gadget_96:

(24, 66346), (Start: 32 @66316 has 6 MA's), (Start: 52 @66226 has 17 MA's), (Start: 61 @66172 has 144 MA's), (Start: 70 @66142 has 1 MA's), (79, 66058), (83, 66025), (101, 65953), (120, 65881), (130, 65800), (133, 65755), (134, 65749), (136, 65743), (137, 65731), (145, 65695), (161, 65593), (165, 65575), (173, 65530), (184, 65458), (186, 65443), (193, 65416), (195, 65407), (206, 65350), (221,

65266), (224, 65242), (234, 65212),

Gene: Gervas_98 Start: 67363, Stop: 66305, Start Num: 61

Candidate Starts for Gervas_98:

(24, 67537), (Start: 32 @67507 has 6 MA's), (Start: 52 @67417 has 17 MA's), (Start: 61 @67363 has 144 MA's), (Start: 70 @67333 has 1 MA's), (79, 67249), (83, 67216), (101, 67144), (120, 67072), (130, 66991), (133, 66946), (134, 66940), (136, 66934), (137, 66922), (145, 66886), (161, 66784), (165, 66766), (173, 66721), (184, 66649), (186, 66634), (193, 66607), (195, 66598), (206, 66541), (221, 66457), (224, 66433), (234, 66403),

Gene: GinPorsche_93 Start: 67834, Stop: 66788, Start Num: 61

Candidate Starts for GinPorsche_93:

(Start: 61 @67834 has 144 MA's), (73, 67780), (74, 67762), (79, 67720), (83, 67687), (84, 67672), (85, 67663), (90, 67645), (110, 67606), (111, 67591), (120, 67543), (128, 67480), (134, 67411), (136, 67405), (137, 67393), (156, 67285), (158, 67276), (161, 67255), (174, 67183), (186, 67105), (187, 67096), (189, 67090), (192, 67081), (198, 67060), (209, 67003), (216, 66973), (221, 66931), (229, 66901), (240, 66847), (244, 66826), (251, 66793),

Gene: Glass_87 Start: 64915, Stop: 63845, Start Num: 61

Candidate Starts for Glass_87:

(Start: 61 @64915 has 144 MA's), (Start: 70 @64885 has 1 MA's), (79, 64819), (81, 64810), (83, 64786), (85, 64762), (93, 64738), (134, 64483), (136, 64477), (137, 64465), (145, 64432), (150, 64411), (157, 64354), (158, 64351), (165, 64312), (167, 64303), (171, 64273), (174, 64258), (180, 64216), (184, 64195), (189, 64165), (195, 64144), (209, 64078), (210, 64075), (216, 64048), (217, 64042), (231, 63967), (237, 63931),

Gene: GlenHope_98 Start: 66938, Stop: 65880, Start Num: 61

Candidate Starts for GlenHope_98:

(24, 67112), (Start: 32 @67082 has 6 MA's), (Start: 52 @66992 has 17 MA's), (Start: 61 @66938 has 144 MA's), (Start: 70 @66908 has 1 MA's), (79, 66824), (83, 66791), (101, 66719), (117, 66662), (120, 66647), (130, 66566), (133, 66521), (134, 66515), (136, 66509), (137, 66497), (145, 66461), (161, 66359), (165, 66341), (173, 66296), (184, 66224), (186, 66209), (193, 66182), (195, 66173), (206, 66116), (221, 66032), (224, 66008), (234, 65978),

Gene: Glubnar_97 Start: 66854, Stop: 65796, Start Num: 61

Candidate Starts for Glubnar_97:

(24, 67028), (Start: 32 @66998 has 6 MA's), (Start: 52 @66908 has 17 MA's), (Start: 61 @66854 has 144 MA's), (Start: 70 @66824 has 1 MA's), (79, 66740), (83, 66707), (101, 66635), (120, 66563), (130, 66482), (133, 66437), (134, 66431), (136, 66425), (137, 66413), (145, 66377), (161, 66275), (165, 66257), (173, 66212), (184, 66140), (186, 66125), (193, 66098), (195, 66089), (206, 66032), (221, 65948), (224, 65924), (234, 65894),

Gene: Godines_85 Start: 64821, Stop: 63751, Start Num: 61

Candidate Starts for Godines_85:

(22, 65016), (Start: 61 @64821 has 144 MA's), (Start: 70 @64791 has 1 MA's), (79, 64725), (81, 64716), (83, 64692), (85, 64668), (93, 64644), (134, 64389), (136, 64383), (137, 64371), (145, 64338), (150, 64317), (157, 64260), (158, 64257), (165, 64218), (167, 64209), (171, 64179), (174, 64164), (177, 64146), (180, 64122), (184, 64101), (189, 64071), (195, 64050), (209, 63984), (210, 63981), (216, 63954), (217, 63948), (231, 63873), (237, 63837),

Gene: GoldenEssence_162 Start: 109608, Stop: 110582, Start Num: 61

Candidate Starts for GoldenEssence_162:

(Start: 61 @109608 has 144 MA's), (72, 109650), (133, 109989), (149, 110052), (154, 110094), (164, 110148), (177, 110226), (178, 110241), (208, 110370), (214, 110397), (215, 110403), (243, 110541),

Gene: GravityBall_77 Start: 50741, Stop: 49743, Start Num: 65

Candidate Starts for GravityBall_77:

(Start: 62 @50747 has 2 MA's), (Start: 65 @50741 has 21 MA's), (82, 50645), (92, 50582), (100, 50564), (131, 50384), (133, 50360), (134, 50354), (137, 50336), (138, 50333), (153, 50258), (163, 50207), (186, 50063), (195, 50027), (202, 49994), (238, 49811), (248, 49760),

Gene: Grekaycon_77 Start: 50613, Stop: 49618, Start Num: 65

Candidate Starts for Grekaycon_77:

(Start: 65 @50613 has 21 MA's), (82, 50520), (92, 50457), (100, 50439), (131, 50259), (133, 50235), (134, 50229), (137, 50211), (138, 50208), (153, 50133), (163, 50082), (184, 49953), (186, 49938), (195, 49902), (202, 49869), (238, 49686),

Gene: Grumio_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Grumio_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: Guzman_50 Start: 30912, Stop: 31964, Start Num: 56

Candidate Starts for Guzman_50:

(Start: 56 @30912 has 10 MA's), (Start: 63 @30954 has 1 MA's), (79, 31050), (84, 31098), (114, 31188), (134, 31347), (136, 31353), (138, 31368), (155, 31449), (184, 31623), (207, 31731), (230, 31851), (239, 31893), (252, 31953),

Gene: Halfpint_96 Start: 66683, Stop: 65625, Start Num: 61

Candidate Starts for Halfpint_96:

(24, 66857), (Start: 32 @66827 has 6 MA's), (Start: 52 @66737 has 17 MA's), (Start: 61 @66683 has 144 MA's), (Start: 70 @66653 has 1 MA's), (79, 66569), (83, 66536), (101, 66464), (120, 66392), (130, 66311), (133, 66266), (134, 66260), (136, 66254), (137, 66242), (145, 66206), (161, 66104), (165, 66086), (173, 66041), (184, 65969), (186, 65954), (193, 65927), (195, 65918), (206, 65861), (221, 65777), (224, 65753), (234, 65723),

Gene: Hally898_89 Start: 67674, Stop: 66628, Start Num: 61

Candidate Starts for Hally898_89:

(Start: 61 @67674 has 144 MA's), (73, 67620), (74, 67602), (79, 67560), (83, 67527), (84, 67512), (85, 67503), (90, 67485), (110, 67446), (111, 67431), (120, 67383), (128, 67320), (134, 67251), (136, 67245), (137, 67233), (156, 67125), (158, 67116), (161, 67095), (174, 67023), (186, 66945), (187, 66936), (189, 66930), (192, 66921), (198, 66900), (209, 66843), (216, 66813), (221, 66771), (229, 66741), (240, 66687), (244, 66666), (251, 66633),

Gene: Hangman_92 Start: 69061, Stop: 68003, Start Num: 61

Candidate Starts for Hangman_92:

(Start: 61 @69061 has 144 MA's), (73, 69007), (79, 68947), (80, 68941), (83, 68914), (84, 68899), (85, 68890), (90, 68872), (110, 68833), (112, 68815), (113, 68812), (120, 68770), (128, 68707), (134, 68638), (137, 68620), (141, 68602), (145, 68584), (156, 68512), (158, 68503), (161, 68482), (181, 68365), (183, 68356), (186, 68332), (187, 68323), (192, 68308), (198, 68287), (209, 68230), (216, 68200), (220, 68170), (221, 68158), (223, 68137), (240, 68062), (244, 68041), (249, 68014), (251, 68008),

Gene: HarveySr_94 Start: 66061, Stop: 64949, Start Num: 52

Candidate Starts for HarveySr_94:

(24, 66181), (Start: 32 @66151 has 6 MA's), (Start: 52 @66061 has 17 MA's), (Start: 61 @66007 has 144 MA's), (Start: 70 @65977 has 1 MA's), (79, 65893), (83, 65860), (101, 65788), (120, 65716), (130, 65635), (133, 65590), (134, 65584), (136, 65578), (137, 65566), (139, 65560), (145, 65530), (161, 65428), (165, 65410), (173, 65365), (184, 65293), (186, 65278), (193, 65251), (195, 65242), (206, 65185), (221, 65101), (224, 65077), (234, 65047),

Gene: Heath_86 Start: 66831, Stop: 65773, Start Num: 61

Candidate Starts for Heath_86:

(Start: 61 @66831 has 144 MA's), (73, 66777), (74, 66759), (79, 66717), (80, 66711), (83, 66684), (84, 66669), (85, 66660), (90, 66642), (110, 66603), (112, 66585), (120, 66540), (128, 66477), (134, 66408), (137, 66390), (141, 66372), (145, 66354), (156, 66282), (158, 66273), (161, 66252), (181, 66135), (183, 66126), (186, 66102), (187, 66093), (192, 66078), (198, 66057), (209, 66000), (216, 65970), (220, 65940), (221, 65928), (223, 65907), (240, 65832), (244, 65811), (251, 65778),

Gene: Heathcliff_97 Start: 66916, Stop: 65804, Start Num: 52

Candidate Starts for Heathcliff_97:

(24, 67036), (Start: 32 @67006 has 6 MA's), (Start: 52 @66916 has 17 MA's), (Start: 61 @66862 has 144 MA's), (Start: 70 @66832 has 1 MA's), (79, 66748), (83, 66715), (101, 66643), (120, 66571), (130, 66490), (133, 66445), (134, 66439), (136, 66433), (137, 66421), (145, 66385), (161, 66283), (165, 66265), (173, 66220), (184, 66148), (186, 66133), (193, 66106), (195, 66097), (206, 66040), (221, 65956), (224, 65932), (234, 65902),

Gene: Hedgerow_85 Start: 64872, Stop: 63802, Start Num: 61

Candidate Starts for Hedgerow_85:

(Start: 61 @64872 has 144 MA's), (Start: 70 @64842 has 1 MA's), (79, 64776), (81, 64767), (83, 64743), (85, 64719), (93, 64695), (134, 64440), (136, 64434), (137, 64422), (145, 64389), (150, 64368), (157, 64311), (158, 64308), (165, 64269), (167, 64260), (171, 64230), (174, 64215), (177, 64197), (180, 64173), (184, 64152), (189, 64122), (195, 64101), (209, 64035), (210, 64032), (216, 64005), (217, 63999), (231, 63924), (237, 63888),

Gene: Holeinone_85 Start: 64762, Stop: 63692, Start Num: 61

Candidate Starts for Holeinone_85:

(22, 64957), (Start: 61 @64762 has 144 MA's), (Start: 70 @64732 has 1 MA's), (79, 64666), (81, 64657), (83, 64633), (85, 64609), (93, 64585), (114, 64489), (134, 64330), (136, 64324), (137, 64312), (145, 64279), (150, 64258), (157, 64201), (158, 64198), (165, 64159), (167, 64150), (171, 64120), (174, 64105), (177, 64087), (180, 64063), (184, 64042), (189, 64012), (195, 63991), (209, 63925), (210, 63922), (216, 63895), (217, 63889), (231, 63814), (237, 63778),

Gene: Hosp_090 Start: 66775, Stop: 65738, Start Num: 61

Candidate Starts for Hosp_090:

(46, 66856), (Start: 61 @66775 has 144 MA's), (Start: 70 @66745 has 1 MA's), (74, 66703), (79, 66661), (83, 66628), (87, 66595), (96, 66574), (110, 66565), (120, 66502), (134, 66370), (136, 66364), (137, 66352), (156, 66244), (158, 66235), (161, 66214), (167, 66187), (186, 66064), (189, 66049), (216, 65932), (223, 65869), (240, 65797),

Gene: Hydro_92 Start: 68848, Stop: 67790, Start Num: 61

Candidate Starts for Hydro_92:

(Start: 61 @68848 has 144 MA's), (73, 68794), (79, 68734), (80, 68728), (83, 68701), (84, 68686), (85, 68677), (90, 68659), (110, 68620), (112, 68602), (113, 68599), (120, 68557), (128, 68494), (134, 68425), (137, 68407), (141, 68389), (145, 68371), (156, 68299), (158, 68290), (161, 68269), (181, 68152), (183, 68143), (186, 68119), (187, 68110), (198, 68074), (209, 68017), (216, 67987), (220, 67957), (221, 67945), (223, 67924), (240, 67849), (244, 67828), (251, 67795),

Gene: Indlovu_89 Start: 68368, Stop: 67307, Start Num: 61

Candidate Starts for Indlovu_89:

(Start: 61 @68368 has 144 MA's), (79, 68242), (80, 68236), (83, 68209), (87, 68176), (90, 68167), (104, 68137), (134, 67936), (136, 67930), (137, 67918), (139, 67912), (150, 67864), (157, 67807), (161, 67783), (167, 67756), (168, 67750), (173, 67720), (174, 67711), (176, 67699), (191, 67615), (209, 67531), (210, 67528), (240, 67366), (244, 67345), (248, 67321), (249, 67318),

Gene: ItsyBitsy1_82 Start: 64989, Stop: 63919, Start Num: 61

Candidate Starts for ItsyBitsy1_82:

(22, 65184), (Start: 61 @64989 has 144 MA's), (Start: 70 @64959 has 1 MA's), (79, 64893), (81, 64884), (83, 64860), (93, 64812), (134, 64557), (136, 64551), (137, 64539), (145, 64506), (150, 64485), (157, 64428), (158, 64425), (165, 64386), (167, 64377), (171, 64347), (174, 64332), (177, 64314), (180, 64290), (184, 64269), (189, 64239), (195, 64218), (209, 64152), (210, 64149), (216, 64122), (217, 64116), (231, 64041), (237, 64005),

Gene: JAMaL_92 Start: 68380, Stop: 67322, Start Num: 61

Candidate Starts for JAMaL_92:

(Start: 61 @68380 has 144 MA's), (73, 68326), (74, 68308), (79, 68266), (83, 68233), (84, 68218), (85, 68209), (90, 68191), (105, 68158), (110, 68152), (112, 68134), (113, 68131), (120, 68089), (128, 68026), (134, 67957), (137, 67939), (141, 67921), (145, 67903), (156, 67831), (158, 67822), (161, 67801), (181, 67684), (183, 67675), (186, 67651), (187, 67642), (192, 67627), (198, 67606), (209, 67549), (216, 67519), (220, 67489), (221, 67477), (223, 67456), (240, 67381), (244, 67360), (251, 67327),

Gene: JKerns_75 Start: 50196, Stop: 49201, Start Num: 65

Candidate Starts for JKerns_75:

(Start: 65 @50196 has 21 MA's), (82, 50103), (92, 50040), (100, 50022), (127, 49887), (131, 49842), (133, 49818), (134, 49812), (137, 49794), (138, 49791), (153, 49716), (163, 49665), (184, 49536), (186, 49521), (195, 49485), (202, 49452), (238, 49269),

Gene: Jace_91 Start: 51481, Stop: 50453, Start Num: 61

Candidate Starts for Jace_91:

(1, 51994), (2, 51988), (3, 51958), (4, 51949), (5, 51934), (6, 51907), (7, 51901), (8, 51898), (9, 51868), (10, 51841), (12, 51814), (14, 51781), (16, 51754), (17, 51748), (18, 51742), (19, 51733), (29, 51649), (30, 51640), (45, 51574), (48, 51556), (50, 51550), (Start: 61 @51481 has 144 MA's), (78, 51388), (79, 51385), (90, 51310), (106, 51268), (110, 51259), (120, 51196), (133, 51070), (134, 51064), (172, 50854), (178, 50809), (184, 50779), (186, 50764), (190, 50749), (210, 50659), (213, 50644), (224, 50566), (227, 50560),

Gene: Jackstina_90 Start: 66779, Stop: 65721, Start Num: 61

Candidate Starts for Jackstina_90:

(24, 66953), (Start: 32 @66923 has 6 MA's), (Start: 52 @66833 has 17 MA's), (Start: 61 @66779 has 144 MA's), (Start: 70 @66749 has 1 MA's), (79, 66665), (83, 66632), (101, 66560), (120, 66488), (130, 66407), (133, 66362), (134, 66356), (136, 66350), (137, 66338), (145, 66302), (161, 66200), (165, 66182), (173, 66137), (184, 66065), (186, 66050), (193, 66023), (195, 66014), (206, 65957), (221, 65873), (224, 65849), (234, 65819),

Gene: JaguarMi_86 Start: 68822, Stop: 67764, Start Num: 61

Candidate Starts for JaguarMi_86:

(Start: 61 @68822 has 144 MA's), (73, 68768), (75, 68732), (79, 68708), (80, 68702), (83, 68675), (84, 68660), (85, 68651), (90, 68633), (110, 68594), (112, 68576), (113, 68573), (120, 68531), (128, 68468), (134, 68399), (137, 68381), (141, 68363), (145, 68345), (156, 68273), (158, 68264), (161, 68243), (181, 68126), (183, 68117), (186, 68093), (187, 68084), (192, 68069), (198, 68048), (209,

67991), (216, 67961), (220, 67931), (221, 67919), (223, 67898), (240, 67823), (244, 67802), (249, 67775), (251, 67769),

Gene: Jakelyne_53 Start: 31022, Stop: 32074, Start Num: 56

Candidate Starts for Jakelyne_53:

(Start: 56 @31022 has 10 MA's), (Start: 63 @31064 has 1 MA's), (79, 31160), (84, 31208), (114, 31298), (134, 31457), (136, 31463), (138, 31478), (151, 31520), (155, 31559), (184, 31733), (207, 31841), (230, 31961), (239, 32003), (252, 32063),

Gene: Jawnski_72 Start: 49083, Stop: 48034, Start Num: 57

Candidate Starts for Jawnski_72:

(Start: 57 @49083 has 2 MA's), (Start: 65 @49038 has 21 MA's), (101, 48858), (110, 48840), (116, 48795), (118, 48786), (122, 48759), (131, 48675), (133, 48651), (134, 48645), (137, 48627), (163, 48498), (184, 48369), (186, 48354), (202, 48285), (226, 48147), (238, 48102), (249, 48048),

Gene: Jolie1_092 Start: 68844, Stop: 67807, Start Num: 61

Candidate Starts for Jolie1_092:

(46, 68925), (Start: 61 @68844 has 144 MA's), (Start: 70 @68814 has 1 MA's), (74, 68772), (79, 68730), (83, 68697), (87, 68664), (96, 68643), (120, 68571), (134, 68439), (136, 68433), (137, 68421), (156, 68313), (158, 68304), (161, 68283), (166, 68259), (167, 68256), (174, 68211), (186, 68133), (216, 68001), (223, 67938), (240, 67866),

Gene: Jollymon_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Jollymon_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: Jordan_77 Start: 50754, Stop: 49759, Start Num: 65

Candidate Starts for Jordan_77:

(Start: 65 @50754 has 21 MA's), (82, 50661), (92, 50598), (100, 50580), (127, 50445), (131, 50400), (133, 50376), (134, 50370), (137, 50352), (138, 50349), (153, 50274), (163, 50223), (184, 50094), (186, 50079), (195, 50043), (202, 50010), (238, 49827),

Gene: JoyceMaria_91 Start: 68893, Stop: 67835, Start Num: 61

Candidate Starts for JoyceMaria_91:

(Start: 61 @68893 has 144 MA's), (73, 68839), (79, 68779), (80, 68773), (83, 68746), (84, 68731), (85, 68722), (90, 68704), (110, 68665), (112, 68647), (113, 68644), (120, 68602), (128, 68539), (134, 68470), (137, 68452), (141, 68434), (145, 68416), (156, 68344), (158, 68335), (161, 68314), (181, 68197), (183, 68188), (186, 68164), (187, 68155), (192, 68140), (198, 68119), (209, 68062), (216, 68032), (221, 67990), (223, 67969), (240, 67894), (244, 67873), (249, 67846), (251, 67840),

Gene: Kaleb_85 Start: 64918, Stop: 63848, Start Num: 61

Candidate Starts for Kaleb_85:

(Start: 61 @64918 has 144 MA's), (Start: 70 @64888 has 1 MA's), (79, 64822), (81, 64813), (83, 64789), (85, 64765), (93, 64741), (134, 64486), (136, 64480), (137, 64468), (145, 64435), (150, 64414), (157, 64357), (158, 64354), (165, 64315), (167, 64306), (171, 64276), (174, 64261), (177, 64243), (180, 64219), (184, 64198), (189, 64168), (195, 64147), (209, 64081), (210, 64078), (216, 64051), (217, 64045), (231, 63970), (237, 63934),

Gene: Kamiyu_97 Start: 66920, Stop: 65808, Start Num: 52

Candidate Starts for Kamiyu_97:

(24, 67040), (Start: 32 @67010 has 6 MA's), (Start: 52 @66920 has 17 MA's), (Start: 61 @66866 has 144 MA's), (Start: 70 @66836 has 1 MA's), (79, 66752), (83, 66719), (101, 66647), (120, 66575), (130,

66494), (133, 66449), (134, 66443), (136, 66437), (137, 66425), (145, 66389), (161, 66287), (165, 66269), (173, 66224), (184, 66152), (186, 66137), (193, 66110), (195, 66101), (206, 66044), (221, 65960), (224, 65936), (234, 65906),

Gene: KarasumaRum_89 Start: 67233, Stop: 66154, Start Num: 61

Candidate Starts for KarasumaRum_89:

(Start: 61 @67233 has 144 MA's), (79, 67137), (83, 67104), (96, 67062), (116, 66981), (134, 66831), (136, 66825), (150, 66759), (158, 66699), (164, 66666), (174, 66606), (175, 66597), (179, 66567), (183, 66552), (187, 66519), (189, 66513), (192, 66504), (195, 66492), (210, 66423), (211, 66417), (212, 66414), (224, 66330), (225, 66324), (236, 66285), (255, 66195), (256, 66192), (257, 66177),

Gene: KayaCho_90 Start: 68660, Stop: 67599, Start Num: 61

Candidate Starts for KayaCho_90:

(46, 68741), (Start: 61 @68660 has 144 MA's), (Start: 70 @68630 has 1 MA's), (79, 68546), (83, 68513), (85, 68489), (90, 68471), (97, 68453), (112, 68408), (113, 68405), (120, 68363), (128, 68300), (134, 68231), (136, 68225), (137, 68213), (156, 68105), (158, 68096), (161, 68075), (167, 68048), (174, 68003), (181, 67958), (186, 67925), (216, 67793), (223, 67730), (240, 67658),

Gene: Kheth_85 Start: 64824, Stop: 63754, Start Num: 61

Candidate Starts for Kheth_85:

(Start: 61 @64824 has 144 MA's), (Start: 70 @64794 has 1 MA's), (79, 64728), (81, 64719), (83, 64695), (85, 64671), (134, 64392), (136, 64386), (137, 64374), (145, 64341), (150, 64320), (157, 64263), (158, 64260), (165, 64221), (167, 64212), (171, 64182), (174, 64167), (177, 64149), (180, 64125), (184, 64104), (189, 64074), (195, 64053), (209, 63987), (210, 63984), (216, 63957), (217, 63951), (231, 63876), (237, 63840),

Gene: King2_72 Start: 49965, Stop: 48961, Start Num: 65

Candidate Starts for King2_72:

(Start: 57 @50010 has 2 MA's), (Start: 65 @49965 has 21 MA's), (101, 49785), (110, 49767), (116, 49722), (118, 49713), (122, 49686), (131, 49602), (133, 49578), (134, 49572), (137, 49554), (163, 49425), (184, 49296), (186, 49281), (226, 49074), (238, 49029), (249, 48975),

Gene: KingstonB_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for KingstonB_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: Klevey_76 Start: 46572, Stop: 45574, Start Num: 69

Candidate Starts for Klevey_76:

(15, 46890), (36, 46722), (58, 46623), (Start: 69 @46572 has 6 MA's), (79, 46503), (82, 46485), (131, 46227), (132, 46209), (133, 46203), (184, 45921), (192, 45882), (193, 45879),

Gene: Knocker_89 Start: 68373, Stop: 67315, Start Num: 61

Candidate Starts for Knocker_89:

(Start: 52 @68424 has 17 MA's), (Start: 61 @68373 has 144 MA's), (79, 68277), (82, 68259), (83, 68244), (94, 68202), (96, 68190), (100, 68172), (102, 68166), (111, 68151), (121, 68100), (125, 68055), (126, 68049), (133, 67977), (134, 67971), (136, 67965), (139, 67947), (150, 67902), (156, 67851), (158, 67842), (161, 67821), (165, 67803), (167, 67794), (168, 67788), (169, 67770), (174, 67749), (175, 67740), (183, 67695), (187, 67662), (189, 67656), (195, 67635), (207, 67578), (209, 67569), (210, 67566), (211, 67560), (212, 67557), (222, 67485), (224, 67473), (239, 67419), (255, 67338),

Gene: Kolhan_86 Start: 64811, Stop: 63741, Start Num: 61

Candidate Starts for Kolhan_86:

(Start: 61 @64811 has 144 MA's), (Start: 70 @64781 has 1 MA's), (79, 64715), (81, 64706), (83, 64682), (85, 64658), (93, 64634), (134, 64379), (136, 64373), (137, 64361), (145, 64328), (150, 64307), (157, 64250), (158, 64247), (165, 64208), (167, 64199), (171, 64169), (174, 64154), (177, 64136), (180, 64112), (184, 64091), (189, 64061), (195, 64040), (209, 63974), (210, 63971), (216, 63944), (217, 63938), (231, 63863), (237, 63827),

Gene: Kronus_97 Start: 67951, Stop: 66893, Start Num: 61

Candidate Starts for Kronus_97:

(24, 68125), (Start: 32 @68095 has 6 MA's), (Start: 52 @68005 has 17 MA's), (Start: 61 @67951 has 144 MA's), (Start: 70 @67921 has 1 MA's), (79, 67837), (83, 67804), (101, 67732), (120, 67660), (130, 67579), (133, 67534), (134, 67528), (136, 67522), (137, 67510), (145, 67474), (161, 67372), (165, 67354), (173, 67309), (184, 67237), (186, 67222), (193, 67195), (195, 67186), (206, 67129), (221, 67045), (224, 67021), (234, 66991),

Gene: Lambano_89 Start: 67674, Stop: 66628, Start Num: 61

Candidate Starts for Lambano_89:

(Start: 61 @67674 has 144 MA's), (73, 67620), (74, 67602), (79, 67560), (83, 67527), (84, 67512), (85, 67503), (90, 67485), (110, 67446), (111, 67431), (120, 67383), (128, 67320), (134, 67251), (136, 67245), (137, 67233), (156, 67125), (158, 67116), (161, 67095), (174, 67023), (186, 66945), (187, 66936), (189, 66930), (192, 66921), (198, 66900), (209, 66843), (216, 66813), (221, 66771), (229, 66741), (240, 66687), (244, 66666), (251, 66633),

Gene: Lars_86 Start: 64888, Stop: 63818, Start Num: 61

Candidate Starts for Lars_86:

(Start: 61 @64888 has 144 MA's), (Start: 70 @64858 has 1 MA's), (79, 64792), (81, 64783), (83, 64759), (85, 64735), (93, 64711), (134, 64456), (136, 64450), (137, 64438), (145, 64405), (150, 64384), (157, 64327), (158, 64324), (165, 64285), (167, 64276), (171, 64246), (174, 64231), (180, 64189), (184, 64168), (189, 64138), (195, 64117), (209, 64051), (210, 64048), (216, 64021), (217, 64015), (231, 63940), (237, 63904),

Gene: Laurie_84 Start: 64232, Stop: 63162, Start Num: 61

Candidate Starts for Laurie_84:

(Start: 61 @64232 has 144 MA's), (Start: 70 @64202 has 1 MA's), (79, 64136), (81, 64127), (83, 64103), (85, 64079), (93, 64055), (98, 64028), (114, 63959), (134, 63800), (136, 63794), (137, 63782), (145, 63749), (150, 63728), (157, 63671), (158, 63668), (165, 63629), (167, 63620), (171, 63590), (174, 63575), (177, 63557), (180, 63533), (184, 63512), (189, 63482), (195, 63461), (209, 63395), (210, 63392), (216, 63365), (217, 63359), (231, 63284), (237, 63248),

Gene: LeeroyJ_78 Start: 50672, Stop: 49668, Start Num: 62

Candidate Starts for LeeroyJ_78:

(Start: 62 @50672 has 2 MA's), (Start: 65 @50666 has 21 MA's), (82, 50570), (92, 50507), (100, 50489), (131, 50309), (133, 50285), (134, 50279), (137, 50261), (138, 50258), (153, 50183), (163, 50132), (186, 49988), (195, 49952), (202, 49919), (238, 49736), (248, 49685),

Gene: Lephleur_85 Start: 64743, Stop: 63673, Start Num: 61

Candidate Starts for Lephleur_85:

(Start: 61 @64743 has 144 MA's), (Start: 70 @64713 has 1 MA's), (79, 64647), (81, 64638), (83, 64614), (85, 64590), (93, 64566), (134, 64311), (136, 64305), (137, 64293), (145, 64260), (150, 64239), (157, 64182), (158, 64179), (165, 64140), (167, 64131), (171, 64101), (174, 64086), (177, 64068), (180, 64044), (184, 64023), (189, 63993), (195, 63972), (209, 63906), (210, 63903), (216, 63876), (217, 63870), (231, 63795), (237, 63759),

Gene: LestyG_95 Start: 66491, Stop: 65379, Start Num: 52

Candidate Starts for LestyG_95:

(24, 66611), (Start: 32 @66581 has 6 MA's), (Start: 52 @66491 has 17 MA's), (Start: 61 @66437 has 144 MA's), (Start: 70 @66407 has 1 MA's), (79, 66323), (83, 66290), (101, 66218), (120, 66146), (130, 66065), (133, 66020), (134, 66014), (136, 66008), (137, 65996), (145, 65960), (161, 65858), (165, 65840), (173, 65795), (184, 65723), (186, 65708), (193, 65681), (195, 65672), (206, 65615), (221, 65531), (224, 65507), (234, 65477),

Gene: Ligma_80 Start: 59316, Stop: 58309, Start Num: 61

Candidate Starts for Ligma_80:

(Start: 61 @59316 has 144 MA's), (79, 59220), (83, 59187), (84, 59172), (102, 59121), (111, 59106), (133, 58932), (134, 58926), (137, 58908), (150, 58854), (155, 58812), (156, 58803), (161, 58773), (169, 58722), (205, 58539), (209, 58521), (210, 58518), (217, 58485), (221, 58449), (247, 58326),

Gene: LilMcDreamy_90 Start: 68177, Stop: 67116, Start Num: 61

Candidate Starts for LilMcDreamy_90:

(Start: 61 @68177 has 144 MA's), (79, 68081), (83, 68048), (112, 67952), (116, 67925), (120, 67907), (134, 67775), (136, 67769), (155, 67658), (158, 67640), (167, 67592), (174, 67547), (183, 67493), (189, 67454), (192, 67445), (201, 67400), (209, 67367), (210, 67364), (221, 67295), (224, 67271), (225, 67265), (236, 67229), (252, 67160), (253, 67154),

Gene: LilSmirk_85 Start: 64782, Stop: 63712, Start Num: 61

Candidate Starts for LilSmirk_85:

(22, 64977), (Start: 61 @64782 has 144 MA's), (Start: 70 @64752 has 1 MA's), (79, 64686), (81, 64677), (83, 64653), (85, 64629), (93, 64605), (134, 64350), (136, 64344), (137, 64332), (145, 64299), (150, 64278), (157, 64221), (158, 64218), (165, 64179), (167, 64170), (171, 64140), (174, 64125), (177, 64107), (180, 64083), (184, 64062), (189, 64032), (195, 64011), (209, 63945), (210, 63942), (216, 63915), (217, 63909), (231, 63834), (237, 63798),

Gene: Lilbeanie_90 Start: 55740, Stop: 56759, Start Num: 68

Candidate Starts for Lilbeanie_90:

(Start: 68 @55740 has 1 MA's), (89, 55887), (94, 55899), (100, 55929), (102, 55935), (117, 55989), (131, 56106), (132, 56124), (134, 56136), (136, 56142), (140, 56163), (142, 56178), (149, 56205), (159, 56274), (164, 56301), (186, 56439), (250, 56754),

Gene: Lilmac1015_76 Start: 46704, Stop: 45700, Start Num: 66

Candidate Starts for Lilmac1015_76:

(Start: 66 @46704 has 1 MA's), (79, 46629), (82, 46611), (131, 46353), (133, 46329), (184, 46047), (192, 46008), (193, 46005),

Gene: LittleDigger_91 Start: 67776, Stop: 66730, Start Num: 61

Candidate Starts for LittleDigger_91:

(Start: 61 @67776 has 144 MA's), (73, 67722), (74, 67704), (79, 67662), (83, 67629), (84, 67614), (85, 67605), (90, 67587), (110, 67548), (120, 67485), (128, 67422), (134, 67353), (136, 67347), (137, 67335), (156, 67227), (158, 67218), (161, 67197), (174, 67125), (186, 67047), (187, 67038), (189, 67032), (192, 67023), (198, 67002), (209, 66945), (216, 66915), (221, 66873), (229, 66843), (240, 66789), (244, 66768), (248, 66744), (251, 66735),

Gene: LittleMunchkin_79 Start: 61029, Stop: 60016, Start Num: 61

Candidate Starts for LittleMunchkin_79:

(45, 61110), (54, 61074), (Start: 61 @61029 has 144 MA's), (79, 60933), (83, 60900), (87, 60867), (96, 60858), (113, 60816), (134, 60642), (136, 60636), (137, 60624), (147, 60576), (158, 60504), (161, 60483), (167, 60456), (177, 60393), (183, 60357), (196, 60294), (209, 60231), (210, 60228), (216,

60201), (224, 60135),

Gene: LizLemon_85 Start: 64914, Stop: 63844, Start Num: 61

Candidate Starts for LizLemon_85:

(Start: 61 @64914 has 144 MA's), (Start: 70 @64884 has 1 MA's), (79, 64818), (81, 64809), (83, 64785), (85, 64761), (93, 64737), (134, 64482), (136, 64476), (137, 64464), (145, 64431), (150, 64410), (157, 64353), (158, 64350), (165, 64311), (167, 64302), (171, 64272), (174, 64257), (177, 64239), (180, 64215), (184, 64194), (189, 64164), (195, 64143), (209, 64077), (210, 64074), (216, 64047), (217, 64041), (231, 63966), (237, 63930),

Gene: Lolalove_94 Start: 68796, Stop: 67738, Start Num: 61

Candidate Starts for Lolalove_94:

(Start: 61 @68796 has 144 MA's), (79, 68682), (80, 68676), (83, 68649), (84, 68634), (85, 68625), (90, 68607), (110, 68568), (112, 68550), (120, 68505), (128, 68442), (134, 68373), (137, 68355), (141, 68337), (144, 68325), (145, 68319), (156, 68247), (158, 68238), (161, 68217), (181, 68100), (183, 68091), (186, 68067), (187, 68058), (192, 68043), (198, 68022), (209, 67965), (216, 67935), (221, 67893), (223, 67872), (240, 67797), (244, 67776), (249, 67749), (251, 67743),

Gene: Losacky_52 Start: 31187, Stop: 32239, Start Num: 56

Candidate Starts for Losacky_52:

(Start: 56 @31187 has 10 MA's), (Start: 63 @31229 has 1 MA's), (79, 31325), (84, 31373), (114, 31463), (134, 31622), (136, 31628), (138, 31643), (151, 31685), (155, 31724), (184, 31898), (207, 32006), (230, 32126), (239, 32168), (252, 32228),

Gene: LuckyBarnes_34 Start: 31205, Stop: 30204, Start Num: 61

Candidate Starts for LuckyBarnes_34:

(41, 31289), (Start: 61 @31205 has 144 MA's), (112, 30989), (121, 30938), (132, 30821), (134, 30809), (154, 30710), (161, 30668), (168, 30635), (184, 30530), (191, 30497), (203, 30443), (207, 30422), (209, 30413), (219, 30362), (221, 30341), (225, 30311), (235, 30278), (248, 30221), (252, 30209),

Gene: Magpie_88 Start: 68610, Stop: 67552, Start Num: 61

Candidate Starts for Magpie_88:

(Start: 61 @68610 has 144 MA's), (73, 68556), (79, 68496), (80, 68490), (83, 68463), (84, 68448), (85, 68439), (90, 68421), (110, 68382), (112, 68364), (120, 68319), (128, 68256), (134, 68187), (137, 68169), (141, 68151), (145, 68133), (156, 68061), (158, 68052), (161, 68031), (173, 67968), (181, 67914), (183, 67905), (186, 67881), (187, 67872), (192, 67857), (198, 67836), (209, 67779), (216, 67749), (220, 67719), (221, 67707), (223, 67686), (240, 67611), (244, 67590), (249, 67563), (251, 67557),

Gene: Magritte_144 Start: 88480, Stop: 89481, Start Num: 60

Candidate Starts for Magritte_144:

(Start: 60 @88480 has 1 MA's), (76, 88561), (82, 88594), (111, 88711), (113, 88717), (115, 88732), (127, 88816), (128, 88822), (132, 88879), (133, 88885), (134, 88891), (153, 88984), (155, 88990), (170, 89083), (173, 89092), (177, 89119), (199, 89224), (208, 89272), (210, 89281),

Gene: Makar_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Makar_1:

(Start: 61 @1 has 144 MA's), (79, 97), (85, 154), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (184, 703), (192, 745), (194, 754), (195, 757), (200, 778),

Gene: MakoManhole_76 Start: 58357, Stop: 57338, Start Num: 61

Candidate Starts for MakoManhole_76:

(45, 58435), (47, 58426), (54, 58399), (Start: 61 @58357 has 144 MA's), (79, 58261), (83, 58228), (85, 58204), (87, 58195), (99, 58171), (110, 58153), (113, 58132), (131, 57985), (133, 57961), (134, 57955), (137, 57937), (150, 57883), (153, 57847), (161, 57802), (169, 57751), (189, 57637), (210, 57547), (216, 57520), (217, 57514), (239, 57403),

Gene: Mariel_53 Start: 31394, Stop: 32446, Start Num: 56

Candidate Starts for Mariel_53:

(Start: 56 @31394 has 10 MA's), (Start: 63 @31436 has 1 MA's), (79, 31532), (84, 31580), (110, 31634), (114, 31670), (134, 31829), (136, 31835), (137, 31847), (151, 31892), (154, 31928), (155, 31931), (173, 32033), (184, 32105), (207, 32213), (230, 32333), (239, 32375), (252, 32435),

Gene: Mariokart_76 Start: 58166, Stop: 57159, Start Num: 61

Candidate Starts for Mariokart_76:

(20, 58379), (25, 58334), (43, 58250), (45, 58244), (54, 58208), (Start: 61 @58166 has 144 MA's), (79, 58070), (83, 58037), (84, 58022), (96, 57995), (102, 57971), (111, 57956), (131, 57806), (133, 57782), (134, 57776), (137, 57758), (150, 57704), (155, 57662), (156, 57653), (161, 57623), (169, 57572), (184, 57488), (189, 57458), (205, 57389), (209, 57371), (210, 57368), (217, 57335), (221, 57299),

Gene: Marley1013_95 Start: 67451, Stop: 66339, Start Num: 52

Candidate Starts for Marley1013_95:

(24, 67571), (Start: 32 @67541 has 6 MA's), (Start: 52 @67451 has 17 MA's), (Start: 61 @67397 has 144 MA's), (Start: 70 @67367 has 1 MA's), (79, 67283), (83, 67250), (101, 67178), (120, 67106), (130, 67025), (133, 66980), (134, 66974), (136, 66968), (137, 66956), (145, 66920), (161, 66818), (165, 66800), (173, 66755), (184, 66683), (186, 66668), (193, 66641), (195, 66632), (206, 66575), (221, 66491), (224, 66467), (234, 66437),

Gene: Marlia_97 Start: 66959, Stop: 65901, Start Num: 61

Candidate Starts for Marlia_97:

(24, 67133), (Start: 32 @67103 has 6 MA's), (Start: 52 @67013 has 17 MA's), (Start: 61 @66959 has 144 MA's), (Start: 70 @66929 has 1 MA's), (79, 66845), (83, 66812), (101, 66740), (120, 66668), (130, 66587), (133, 66542), (134, 66536), (136, 66530), (137, 66518), (145, 66482), (161, 66380), (165, 66362), (173, 66317), (184, 66245), (186, 66230), (193, 66203), (195, 66194), (206, 66137), (221, 66053), (224, 66029), (234, 65999),

Gene: Martha_76 Start: 50549, Stop: 49554, Start Num: 65

Candidate Starts for Martha_76:

(Start: 65 @50549 has 21 MA's), (82, 50456), (92, 50393), (100, 50375), (131, 50195), (133, 50171), (134, 50165), (137, 50147), (138, 50144), (153, 50069), (163, 50018), (184, 49889), (186, 49874), (195, 49838), (202, 49805), (238, 49622),

Gene: Maruru_95 Start: 58384, Stop: 57389, Start Num: 61

Candidate Starts for Maruru_95:

(Start: 61 @58384 has 144 MA's), (79, 58288), (82, 58270), (86, 58225), (87, 58222), (132, 58003), (134, 57991), (137, 57973), (138, 57970), (173, 57787), (184, 57715), (195, 57664), (204, 57613), (210, 57589), (211, 57583), (221, 57520), (222, 57508),

Gene: MasterPo_86 Start: 64783, Stop: 63713, Start Num: 61

Candidate Starts for MasterPo_86:

(22, 64978), (Start: 61 @64783 has 144 MA's), (Start: 70 @64753 has 1 MA's), (79, 64687), (81, 64678), (83, 64654), (85, 64630), (93, 64606), (134, 64351), (136, 64345), (137, 64333), (145, 64300), (150, 64279), (157, 64222), (158, 64219), (165, 64180), (171, 64141), (174, 64126), (177, 64108), (180, 64084), (184, 64063), (189, 64033), (195, 64012), (209, 63946), (210, 63943), (216, 63916), (217, 63910), (231, 63835), (237, 63799),

Gene: MenE_52 Start: 31078, Stop: 32130, Start Num: 56

Candidate Starts for MenE_52:

(Start: 56 @31078 has 10 MA's), (Start: 63 @31120 has 1 MA's), (79, 31216), (84, 31264), (114, 31354), (134, 31513), (136, 31519), (138, 31534), (151, 31576), (155, 31615), (184, 31789), (207, 31897), (230, 32017), (239, 32059), (252, 32119),

Gene: Mimi_175 Start: 115674, Stop: 116648, Start Num: 61

Candidate Starts for Mimi_175:

(Start: 61 @115674 has 144 MA's), (72, 115716), (133, 116055), (149, 116118), (154, 116160), (164, 116214), (177, 116292), (208, 116436), (214, 116463), (215, 116469), (243, 116607),

Gene: Mithril_90 Start: 68622, Stop: 67564, Start Num: 61

Candidate Starts for Mithril_90:

(Start: 61 @68622 has 144 MA's), (79, 68508), (80, 68502), (83, 68475), (84, 68460), (85, 68451), (90, 68433), (110, 68394), (112, 68376), (120, 68331), (128, 68268), (134, 68199), (137, 68181), (141, 68163), (145, 68145), (156, 68073), (158, 68064), (161, 68043), (181, 67926), (183, 67917), (186, 67893), (187, 67884), (192, 67869), (198, 67848), (209, 67791), (216, 67761), (220, 67731), (221, 67719), (223, 67698), (240, 67623), (244, 67602), (249, 67575), (251, 67569),

Gene: MmasiCarm_98 Start: 67294, Stop: 66236, Start Num: 61

Candidate Starts for MmasiCarm_98:

(24, 67468), (Start: 32 @67438 has 6 MA's), (Start: 52 @67348 has 17 MA's), (Start: 61 @67294 has 144 MA's), (Start: 70 @67264 has 1 MA's), (79, 67180), (83, 67147), (101, 67075), (120, 67003), (130, 66922), (133, 66877), (134, 66871), (136, 66865), (137, 66853), (145, 66817), (161, 66715), (165, 66697), (173, 66652), (184, 66580), (186, 66565), (193, 66538), (195, 66529), (206, 66472), (221, 66388), (224, 66364), (234, 66334),

Gene: Mortcellus_97 Start: 68032, Stop: 66974, Start Num: 61

Candidate Starts for Mortcellus_97:

(24, 68206), (Start: 32 @68176 has 6 MA's), (Start: 52 @68086 has 17 MA's), (Start: 61 @68032 has 144 MA's), (Start: 70 @68002 has 1 MA's), (79, 67918), (83, 67885), (101, 67813), (120, 67741), (130, 67660), (133, 67615), (134, 67609), (136, 67603), (137, 67591), (145, 67555), (161, 67453), (165, 67435), (173, 67390), (184, 67318), (186, 67303), (193, 67276), (195, 67267), (206, 67210), (221, 67126), (224, 67102), (234, 67072),

Gene: Morty007_95 Start: 67664, Stop: 66606, Start Num: 61

Candidate Starts for Morty007_95:

(24, 67838), (Start: 32 @67808 has 6 MA's), (Start: 52 @67718 has 17 MA's), (Start: 61 @67664 has 144 MA's), (Start: 70 @67634 has 1 MA's), (79, 67550), (83, 67517), (101, 67445), (120, 67373), (130, 67292), (133, 67247), (134, 67241), (136, 67235), (137, 67223), (145, 67187), (161, 67085), (165, 67067), (173, 67022), (184, 66950), (186, 66935), (193, 66908), (195, 66899), (206, 66842), (221, 66758), (224, 66734), (234, 66704),

Gene: MossRose_79 Start: 59268, Stop: 58249, Start Num: 61

Candidate Starts for MossRose_79:

(Start: 26 @59424 has 1 MA's), (45, 59346), (54, 59310), (Start: 61 @59268 has 144 MA's), (79, 59172), (83, 59139), (85, 59115), (87, 59106), (99, 59082), (110, 59064), (113, 59043), (131, 58896), (133, 58872), (134, 58866), (137, 58848), (150, 58794), (153, 58758), (161, 58713), (169, 58662), (189, 58548), (210, 58458), (216, 58431), (217, 58425), (239, 58314),

Gene: Mudslide_93 Start: 69027, Stop: 67969, Start Num: 61

Candidate Starts for Mudslide_93:

(Start: 61 @69027 has 144 MA's), (73, 68973), (79, 68913), (80, 68907), (83, 68880), (84, 68865), (85, 68856), (90, 68838), (110, 68799), (112, 68781), (120, 68736), (128, 68673), (134, 68604), (137, 68586), (141, 68568), (144, 68556), (145, 68550), (156, 68478), (158, 68469), (161, 68448), (181, 68331), (183, 68322), (186, 68298), (187, 68289), (192, 68274), (198, 68253), (209, 68196), (216, 68166), (221, 68124), (223, 68103), (240, 68028), (244, 68007), (249, 67980), (251, 67974),

Gene: Mufasa8_100 Start: 59050, Stop: 58061, Start Num: 61

Candidate Starts for Mufasa8_100:

(Start: 61 @59050 has 144 MA's), (124, 58750), (128, 58729), (132, 58672), (133, 58666), (134, 58660), (136, 58654), (137, 58642), (144, 58627), (166, 58495), (184, 58384), (197, 58330), (210, 58264), (233, 58144),

Gene: Mulaychimus_98 Start: 67473, Stop: 66415, Start Num: 61

Candidate Starts for Mulaychimus_98:

(24, 67647), (Start: 32 @67617 has 6 MA's), (Start: 52 @67527 has 17 MA's), (Start: 61 @67473 has 144 MA's), (Start: 70 @67443 has 1 MA's), (79, 67359), (83, 67326), (101, 67254), (120, 67182), (130, 67101), (133, 67056), (134, 67050), (136, 67044), (137, 67032), (145, 66996), (161, 66894), (165, 66876), (173, 66831), (184, 66759), (186, 66744), (193, 66717), (195, 66708), (206, 66651), (221, 66567), (224, 66543), (234, 66513),

Gene: Mysterious_89 Start: 67024, Stop: 65951, Start Num: 61

Candidate Starts for Mysterious_89:

(Start: 61 @67024 has 144 MA's), (79, 66928), (83, 66895), (96, 66853), (106, 66823), (112, 66799), (116, 66772), (119, 66760), (134, 66622), (136, 66616), (137, 66604), (147, 66562), (158, 66490), (174, 66397), (179, 66358), (183, 66343), (185, 66331), (189, 66304), (192, 66295), (195, 66283), (209, 66217), (210, 66214), (211, 66208), (212, 66205), (224, 66121), (225, 66115), (236, 66079), (254, 65998), (255, 65989), (258, 65968),

Gene: NCRodriguez_52 Start: 31148, Stop: 32200, Start Num: 56

Candidate Starts for NCRodriguez_52:

(Start: 56 @31148 has 10 MA's), (Start: 63 @31190 has 1 MA's), (79, 31286), (84, 31334), (114, 31424), (134, 31583), (136, 31589), (138, 31604), (151, 31646), (155, 31685), (156, 31694), (184, 31859), (207, 31967), (230, 32087), (239, 32129), (252, 32189),

Gene: NHagos_76 Start: 57550, Stop: 56543, Start Num: 61

Candidate Starts for NHagos_76:

(Start: 61 @57550 has 144 MA's), (79, 57454), (83, 57421), (102, 57355), (111, 57340), (113, 57334), (131, 57190), (133, 57166), (134, 57160), (137, 57142), (150, 57088), (154, 57049), (161, 57007), (169, 56956), (196, 56818), (210, 56752), (216, 56725), (217, 56719), (225, 56653), (236, 56617),

Gene: Nanao_91 Start: 67687, Stop: 66641, Start Num: 61

Candidate Starts for Nanao_91:

(Start: 61 @67687 has 144 MA's), (73, 67633), (74, 67615), (79, 67573), (83, 67540), (84, 67525), (85, 67516), (90, 67498), (110, 67459), (111, 67444), (120, 67396), (128, 67333), (134, 67264), (136, 67258), (137, 67246), (156, 67138), (158, 67129), (161, 67108), (174, 67036), (186, 66958), (187, 66949), (189, 66943), (192, 66934), (198, 66913), (209, 66856), (216, 66826), (221, 66784), (229, 66754), (240, 66700), (244, 66679), (251, 66646),

Gene: Nandito_75 Start: 46951, Stop: 45953, Start Num: 69

Candidate Starts for Nandito_75:

(Start: 69 @46951 has 6 MA's), (82, 46864), (131, 46606), (132, 46588), (133, 46582), (162, 46432), (163, 46429), (184, 46300), (186, 46285), (188, 46273),

Gene: Nangang_91 Start: 67505, Stop: 66432, Start Num: 61

Candidate Starts for Nangang_91:

(13, 67814), (21, 67700), (27, 67658), (Start: 61 @67505 has 144 MA's), (79, 67409), (83, 67376), (96, 67334), (106, 67304), (114, 67262), (116, 67253), (134, 67103), (136, 67097), (150, 67031), (158, 66971), (174, 66878), (175, 66869), (179, 66839), (183, 66824), (189, 66785), (192, 66776), (195, 66764), (210, 66695), (211, 66689), (212, 66686), (224, 66602), (225, 66596), (236, 66557), (255, 66467), (256, 66464), (257, 66449),

Gene: NathanVaag_72 Start: 49262, Stop: 48258, Start Num: 65

Candidate Starts for NathanVaag_72:

(Start: 55 @49325 has 2 MA's), (Start: 65 @49262 has 21 MA's), (92, 49103), (101, 49082), (110, 49064), (116, 49019), (118, 49010), (122, 48983), (131, 48899), (133, 48875), (134, 48869), (137, 48851), (157, 48752), (163, 48722), (184, 48593), (186, 48578), (226, 48371), (238, 48326), (249, 48272),

Gene: Nehemiah_89 Start: 66891, Stop: 65818, Start Num: 61

Candidate Starts for Nehemiah_89:

(Start: 61 @66891 has 144 MA's), (79, 66795), (83, 66762), (95, 66723), (96, 66720), (106, 66690), (112, 66666), (116, 66639), (119, 66627), (134, 66489), (136, 66483), (137, 66471), (147, 66429), (158, 66357), (174, 66264), (179, 66225), (183, 66210), (185, 66198), (189, 66171), (192, 66162), (195, 66150), (209, 66084), (210, 66081), (211, 66075), (212, 66072), (224, 65988), (225, 65982), (236, 65946), (254, 65865), (255, 65856), (258, 65835),

Gene: Neos5_96 Start: 67264, Stop: 66062, Start Num: 32

Candidate Starts for Neos5_96:

(24, 67294), (Start: 32 @67264 has 6 MA's), (Start: 52 @67174 has 17 MA's), (Start: 61 @67120 has 144 MA's), (Start: 70 @67090 has 1 MA's), (79, 67006), (83, 66973), (101, 66901), (120, 66829), (130, 66748), (133, 66703), (134, 66697), (136, 66691), (137, 66679), (145, 66643), (161, 66541), (165, 66523), (173, 66478), (184, 66406), (186, 66391), (193, 66364), (195, 66355), (206, 66298), (221, 66214), (224, 66190), (234, 66160),

Gene: Nigel_88 Start: 67148, Stop: 66102, Start Num: 61

Candidate Starts for Nigel_88:

(Start: 61 @67148 has 144 MA's), (79, 67034), (83, 67001), (84, 66986), (85, 66977), (86, 66971), (90, 66959), (110, 66920), (111, 66905), (112, 66902), (120, 66857), (128, 66794), (134, 66725), (136, 66719), (137, 66707), (156, 66599), (158, 66590), (161, 66569), (167, 66542), (174, 66497), (181, 66452), (186, 66419), (187, 66410), (189, 66404), (192, 66395), (198, 66374), (209, 66317), (216, 66287), (220, 66257), (229, 66215), (240, 66161), (244, 66140), (248, 66116), (251, 66107),

Gene: Nostromo_71 Start: 47502, Stop: 46501, Start Num: 65

Candidate Starts for Nostromo_71:

(Start: 65 @47502 has 21 MA's), (82, 47409), (84, 47379), (91, 47349), (101, 47325), (110, 47307), (118, 47253), (131, 47142), (133, 47118), (134, 47112), (157, 46995), (163, 46965), (168, 46938), (186, 46821), (221, 46647), (238, 46569), (244, 46542), (248, 46518), (251, 46509),

Gene: Nozo_97 Start: 67727, Stop: 66615, Start Num: 52

Candidate Starts for Nozo_97:

(24, 67847), (Start: 32 @67817 has 6 MA's), (Start: 52 @67727 has 17 MA's), (Start: 61 @67673 has 144 MA's), (Start: 70 @67643 has 1 MA's), (79, 67559), (83, 67526), (101, 67454), (120, 67382), (130, 67301), (133, 67256), (134, 67250), (136, 67244), (137, 67232), (139, 67226), (145, 67196), (161, 67094), (165, 67076), (173, 67031), (184, 66959), (186, 66944), (193, 66917), (195, 66908), (206, 66851), (221, 66767), (224, 66743), (234, 66713),

Gene: Obutu_99 Start: 67477, Stop: 66419, Start Num: 61

Candidate Starts for Obutu_99:

(24, 67651), (Start: 32 @67621 has 6 MA's), (Start: 52 @67531 has 17 MA's), (Start: 61 @67477 has 144 MA's), (Start: 70 @67447 has 1 MA's), (79, 67363), (83, 67330), (101, 67258), (120, 67186), (130, 67105), (133, 67060), (134, 67054), (136, 67048), (137, 67036), (145, 67000), (161, 66898), (165, 66880), (173, 66835), (184, 66763), (186, 66748), (193, 66721), (195, 66712), (206, 66655), (221, 66571), (224, 66547), (234, 66517),

Gene: Olivio_97 Start: 67113, Stop: 66055, Start Num: 61

Candidate Starts for Olivio_97:

(24, 67287), (Start: 32 @67257 has 6 MA's), (Start: 52 @67167 has 17 MA's), (Start: 61 @67113 has 144 MA's), (Start: 70 @67083 has 1 MA's), (79, 66999), (83, 66966), (101, 66894), (120, 66822), (130, 66741), (133, 66696), (134, 66690), (136, 66684), (137, 66672), (145, 66636), (161, 66534), (165, 66516), (173, 66471), (184, 66399), (186, 66384), (193, 66357), (195, 66348), (206, 66291), (221, 66207), (224, 66183), (234, 66153),

Gene: Opia_86 Start: 64807, Stop: 63737, Start Num: 61

Candidate Starts for Opia_86:

(Start: 61 @64807 has 144 MA's), (Start: 70 @64777 has 1 MA's), (79, 64711), (81, 64702), (83, 64678), (85, 64654), (93, 64630), (134, 64375), (136, 64369), (137, 64357), (145, 64324), (150, 64303), (157, 64246), (158, 64243), (165, 64204), (167, 64195), (171, 64165), (174, 64150), (180, 64108), (184, 64087), (189, 64057), (195, 64036), (209, 63970), (210, 63967), (216, 63940), (217, 63934), (231, 63859), (237, 63823),

Gene: OrangeOswald_96 Start: 66962, Stop: 65850, Start Num: 52

Candidate Starts for OrangeOswald_96:

(24, 67082), (Start: 32 @67052 has 6 MA's), (Start: 52 @66962 has 17 MA's), (Start: 61 @66908 has 144 MA's), (Start: 70 @66878 has 1 MA's), (79, 66794), (83, 66761), (101, 66689), (120, 66617), (130, 66536), (133, 66491), (134, 66485), (136, 66479), (137, 66467), (139, 66461), (145, 66431), (161, 66329), (165, 66311), (173, 66266), (184, 66194), (186, 66179), (193, 66152), (195, 66143), (206, 66086), (221, 66002), (224, 65978), (234, 65948),

Gene: Patbob_173 Start: 116230, Stop: 117204, Start Num: 61

Candidate Starts for Patbob_173:

(Start: 61 @116230 has 144 MA's), (72, 116272), (133, 116611), (149, 116674), (154, 116716), (164, 116770), (177, 116848), (178, 116863), (208, 116992), (214, 117019), (215, 117025), (243, 117163),

Gene: PenguinLover67_89 Start: 66616, Stop: 65579, Start Num: 61

Candidate Starts for PenguinLover67_89:

(Start: 61 @66616 has 144 MA's), (64, 66607), (79, 66520), (83, 66487), (84, 66472), (87, 66454), (88, 66451), (111, 66406), (121, 66355), (134, 66226), (136, 66220), (137, 66208), (147, 66166), (150, 66154), (154, 66115), (156, 66103), (158, 66094), (167, 66046), (169, 66022), (171, 66016), (173, 66010), (174, 66001), (177, 65983), (183, 65947), (189, 65908), (192, 65899), (195, 65887), (198, 65878), (205, 65839), (209, 65821), (210, 65818), (212, 65809), (224, 65725), (225, 65719), (236, 65683),

Gene: Phaedrus_92 Start: 66323, Stop: 65265, Start Num: 61

Candidate Starts for Phaedrus_92:

(24, 66497), (Start: 32 @66467 has 6 MA's), (Start: 52 @66377 has 17 MA's), (Start: 61 @66323 has 144 MA's), (Start: 70 @66293 has 1 MA's), (79, 66209), (83, 66176), (101, 66104), (120, 66032), (130, 65951), (133, 65906), (134, 65900), (136, 65894), (137, 65882), (145, 65846), (161, 65744), (165, 65726), (173, 65681), (184, 65609), (186, 65594), (193, 65567), (195, 65558), (206, 65501), (221, 65417), (224, 65393), (234, 65363),

Gene: Phantasmagoria_84 Start: 64790, Stop: 63720, Start Num: 61

Candidate Starts for Phantasmagoria_84:

(22, 64985), (Start: 61 @64790 has 144 MA's), (Start: 70 @64760 has 1 MA's), (79, 64694), (81, 64685), (83, 64661), (85, 64637), (93, 64613), (134, 64358), (136, 64352), (137, 64340), (145, 64307), (150, 64286), (157, 64229), (158, 64226), (165, 64187), (167, 64178), (171, 64148), (174, 64133), (177, 64115), (180, 64091), (184, 64070), (189, 64040), (195, 64019), (209, 63953), (210, 63950), (216, 63923), (217, 63917), (231, 63842), (237, 63806),

Gene: Phayeta_99 Start: 67158, Stop: 66100, Start Num: 61

Candidate Starts for Phayeta_99:

(24, 67332), (Start: 32 @67302 has 6 MA's), (Start: 52 @67212 has 17 MA's), (Start: 61 @67158 has 144 MA's), (Start: 70 @67128 has 1 MA's), (79, 67044), (83, 67011), (101, 66939), (120, 66867), (130, 66786), (133, 66741), (134, 66735), (136, 66729), (137, 66717), (145, 66681), (161, 66579), (165, 66561), (173, 66516), (184, 66444), (186, 66429), (193, 66402), (195, 66393), (206, 66336), (221, 66252), (224, 66228), (234, 66198),

Gene: Phelemich_87 Start: 66931, Stop: 65858, Start Num: 61

Candidate Starts for Phelemich_87:

(34, 67057), (39, 67045), (47, 67006), (Start: 61 @66931 has 144 MA's), (79, 66835), (83, 66802), (96, 66760), (106, 66730), (112, 66706), (116, 66679), (134, 66529), (136, 66523), (137, 66511), (147, 66469), (158, 66397), (179, 66265), (183, 66250), (185, 66238), (189, 66211), (192, 66202), (195, 66190), (201, 66157), (209, 66124), (210, 66121), (211, 66115), (212, 66112), (224, 66028), (225, 66022), (236, 65986), (254, 65905), (258, 65875),

Gene: Philly_96 Start: 66810, Stop: 65698, Start Num: 52

Candidate Starts for Philly_96:

(24, 66930), (Start: 32 @66900 has 6 MA's), (Start: 52 @66810 has 17 MA's), (Start: 61 @66756 has 144 MA's), (Start: 70 @66726 has 1 MA's), (79, 66642), (83, 66609), (101, 66537), (120, 66465), (130, 66384), (133, 66339), (134, 66333), (136, 66327), (137, 66315), (145, 66279), (161, 66177), (165, 66159), (173, 66114), (184, 66042), (186, 66027), (193, 66000), (195, 65991), (206, 65934), (221, 65850), (224, 65826), (234, 65796),

Gene: PhillyJawn_51 Start: 30818, Stop: 31870, Start Num: 56

Candidate Starts for PhillyJawn_51:

(Start: 56 @30818 has 10 MA's), (Start: 63 @30860 has 1 MA's), (79, 30956), (84, 31004), (114, 31094), (134, 31253), (136, 31259), (138, 31274), (155, 31355), (184, 31529), (207, 31637), (230, 31757), (239, 31799), (252, 31859),

Gene: Phingu_53 Start: 31043, Stop: 32095, Start Num: 56

Candidate Starts for Phingu_53:

(Start: 56 @31043 has 10 MA's), (Start: 63 @31085 has 1 MA's), (79, 31181), (84, 31229), (114, 31319), (134, 31478), (136, 31484), (138, 31499), (151, 31541), (154, 31577), (155, 31580), (184, 31754), (207, 31862), (230, 31982), (239, 32024), (252, 32084),

Gene: Phlyer_97 Start: 67618, Stop: 66560, Start Num: 61

Candidate Starts for Phlyer_97:

(24, 67792), (Start: 32 @67762 has 6 MA's), (Start: 52 @67672 has 17 MA's), (Start: 61 @67618 has 144 MA's), (Start: 70 @67588 has 1 MA's), (79, 67504), (83, 67471), (101, 67399), (120, 67327), (130, 67246), (133, 67201), (134, 67195), (136, 67189), (137, 67177), (145, 67141), (161, 67039), (165, 67021), (173, 66976), (184, 66904), (186, 66889), (193, 66862), (195, 66853), (206, 66796), (221, 66712), (224, 66688), (234, 66658),

Gene: Phonegingi_50 Start: 30903, Stop: 31913, Start Num: 63

Candidate Starts for Phonegingi_50:

(Start: 63 @30903 has 1 MA's), (79, 30999), (84, 31047), (114, 31137), (134, 31296), (136, 31302), (151, 31359), (155, 31398), (184, 31572), (207, 31680), (230, 31800), (239, 31842), (252, 31902),

Gene: Piccoletto_73 Start: 49488, Stop: 48421, Start Num: 55

Candidate Starts for Piccoletto_73:

(Start: 55 @49488 has 2 MA's), (Start: 65 @49425 has 21 MA's), (92, 49266), (101, 49245), (110, 49227), (116, 49182), (118, 49173), (122, 49146), (131, 49062), (132, 49044), (133, 49038), (134, 49032), (137, 49014), (157, 48915), (163, 48885), (184, 48756), (186, 48741), (226, 48534), (238, 48489), (249, 48435),

Gene: Pickles13_49 Start: 31137, Stop: 32189, Start Num: 56

Candidate Starts for Pickles13_49:

(38, 31050), (Start: 56 @31137 has 10 MA's), (Start: 63 @31179 has 1 MA's), (79, 31275), (84, 31323), (114, 31413), (134, 31572), (136, 31578), (138, 31593), (151, 31635), (155, 31674), (184, 31848), (207, 31956), (230, 32076), (239, 32118), (252, 32178),

Gene: Pipefish_96 Start: 67436, Stop: 66234, Start Num: 32

Candidate Starts for Pipefish_96:

(24, 67466), (Start: 32 @67436 has 6 MA's), (Start: 52 @67346 has 17 MA's), (Start: 61 @67292 has 144 MA's), (Start: 70 @67262 has 1 MA's), (79, 67178), (83, 67145), (101, 67073), (120, 67001), (130, 66920), (133, 66875), (134, 66869), (136, 66863), (137, 66851), (145, 66815), (161, 66713), (165, 66695), (173, 66650), (184, 66578), (186, 66563), (193, 66536), (195, 66527), (206, 66470), (221, 66386), (224, 66362), (234, 66332),

Gene: Pippa_77 Start: 50604, Stop: 49609, Start Num: 65

Candidate Starts for Pippa_77:

(Start: 65 @50604 has 21 MA's), (77, 50541), (82, 50511), (92, 50448), (100, 50430), (131, 50250), (133, 50226), (134, 50220), (137, 50202), (138, 50199), (153, 50124), (163, 50073), (184, 49944), (186, 49929), (195, 49893), (202, 49860), (238, 49677),

Gene: Poster_90 Start: 67688, Stop: 66642, Start Num: 61

Candidate Starts for Poster_90:

(Start: 61 @67688 has 144 MA's), (73, 67634), (74, 67616), (79, 67574), (83, 67541), (84, 67526), (85, 67517), (90, 67499), (110, 67460), (111, 67445), (120, 67397), (128, 67334), (134, 67265), (136, 67259), (137, 67247), (156, 67139), (158, 67130), (161, 67109), (174, 67037), (186, 66959), (187, 66950), (189, 66944), (192, 66935), (198, 66914), (209, 66857), (216, 66827), (221, 66785), (229, 66755), (240, 66701), (244, 66680), (251, 66647),

Gene: Prairie_72 Start: 45989, Stop: 44991, Start Num: 69

Candidate Starts for Prairie_72:

(23, 46193), (58, 46037), (Start: 69 @45989 has 6 MA's), (79, 45920), (82, 45902), (131, 45644), (132, 45626), (133, 45620), (184, 45338), (192, 45299), (193, 45296),

Gene: Prince_92 Start: 68894, Stop: 67836, Start Num: 61

Candidate Starts for Prince_92:

(Start: 61 @68894 has 144 MA's), (79, 68780), (80, 68774), (83, 68747), (84, 68732), (85, 68723), (90, 68705), (110, 68666), (112, 68648), (120, 68603), (128, 68540), (134, 68471), (137, 68453), (141, 68435), (144, 68423), (145, 68417), (156, 68345), (158, 68336), (161, 68315), (181, 68198), (183, 68189), (186, 68165), (187, 68156), (192, 68141), (198, 68120), (209, 68063), (216, 68033), (221, 67991), (223, 67970), (240, 67895), (244, 67874), (249, 67847), (251, 67841),

Gene: PrinceCharming_85 Start: 64835, Stop: 63765, Start Num: 61

Candidate Starts for PrinceCharming_85:

(Start: 61 @64835 has 144 MA's), (Start: 70 @64805 has 1 MA's), (79, 64739), (81, 64730), (83, 64706), (85, 64682), (93, 64658), (134, 64403), (136, 64397), (137, 64385), (145, 64352), (150, 64331), (157, 64274), (158, 64271), (165, 64232), (167, 64223), (171, 64193), (174, 64178), (177, 64160), (180, 64136), (184, 64115), (189, 64085), (195, 64064), (209, 63998), (210, 63995), (216, 63968), (217, 63962), (231, 63887), (237, 63851),

Gene: Purplicious_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Purplicious_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (123, 307), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: QueenPie_84 Start: 67179, Stop: 66133, Start Num: 61

Candidate Starts for QueenPie_84:

(Start: 61 @67179 has 144 MA's), (73, 67125), (79, 67065), (83, 67032), (84, 67017), (85, 67008), (87, 66999), (90, 66990), (110, 66951), (111, 66936), (112, 66933), (120, 66888), (128, 66825), (134, 66756), (136, 66750), (137, 66738), (156, 66630), (158, 66621), (161, 66600), (174, 66528), (181, 66483), (186, 66450), (187, 66441), (189, 66435), (192, 66426), (198, 66405), (209, 66348), (216, 66318), (220, 66288), (221, 66276), (229, 66246), (240, 66192), (244, 66171), (251, 66138),

Gene: Quesadilla_91 Start: 67907, Stop: 66864, Start Num: 61

Candidate Starts for Quesadilla_91:

(Start: 61 @67907 has 144 MA's), (64, 67898), (79, 67811), (83, 67778), (84, 67763), (87, 67745), (111, 67697), (133, 67523), (134, 67517), (136, 67511), (137, 67499), (147, 67457), (150, 67445), (154, 67406), (156, 67394), (158, 67385), (167, 67337), (169, 67313), (173, 67301), (183, 67238), (184, 67229), (192, 67190), (195, 67178), (198, 67169), (205, 67130), (207, 67121), (209, 67112), (210, 67109), (212, 67100), (221, 67040), (224, 67016), (225, 67010), (242, 66950), (246, 66923), (253, 66899), (256, 66881),

Gene: Qyrzula_76 Start: 64899, Stop: 63859, Start Num: 70

Candidate Starts for Qyrzula_76:

(Start: 61 @64929 has 144 MA's), (Start: 70 @64899 has 1 MA's), (79, 64833), (81, 64824), (83, 64800), (85, 64776), (93, 64752), (134, 64497), (136, 64491), (137, 64479), (145, 64446), (150, 64425), (157, 64368), (158, 64365), (165, 64326), (167, 64317), (171, 64287), (174, 64272), (177, 64254), (180, 64230), (184, 64209), (189, 64179), (195, 64158), (209, 64092), (210, 64089), (216, 64062), (217, 64056), (231, 63981), (237, 63945),

Gene: Racecar_176 Start: 116640, Stop: 117614, Start Num: 61

Candidate Starts for Racecar_176:

(Start: 61 @116640 has 144 MA's), (72, 116682), (133, 117021), (149, 117084), (154, 117126), (164, 117180), (177, 117258), (208, 117402), (214, 117429), (215, 117435), (243, 117573),

Gene: RagingRooster_97 Start: 66904, Stop: 65846, Start Num: 61

Candidate Starts for RagingRooster_97:

(24, 67078), (Start: 32 @67048 has 6 MA's), (Start: 52 @66958 has 17 MA's), (Start: 61 @66904 has 144 MA's), (Start: 70 @66874 has 1 MA's), (79, 66790), (83, 66757), (101, 66685), (120, 66613), (130, 66532), (133, 66487), (134, 66481), (136, 66475), (137, 66463), (139, 66457), (145, 66427), (161, 66325), (165, 66307), (173, 66262), (184, 66190), (186, 66175), (193, 66148), (195, 66139), (206, 66082), (221, 65998), (224, 65974), (234, 65944),

Gene: RawrgerThat_90 Start: 68392, Stop: 67343, Start Num: 61

Candidate Starts for RawrgerThat_90:

(Start: 61 @68392 has 144 MA's), (73, 68338), (74, 68320), (79, 68278), (80, 68272), (83, 68245), (84, 68230), (103, 68176), (111, 68152), (120, 68104), (121, 68101), (122, 68086), (134, 67972), (137, 67954), (141, 67936), (145, 67918), (161, 67816), (181, 67699), (183, 67690), (186, 67666), (188, 67654), (189, 67651), (192, 67639), (209, 67561), (216, 67531), (220, 67501), (223, 67468), (240, 67402), (244, 67381), (251, 67348),

Gene: Reccee_91 Start: 67386, Stop: 66313, Start Num: 61

Candidate Starts for Reccee_91:

(35, 67500), (Start: 42 @67473 has 1 MA's), (Start: 61 @67386 has 144 MA's), (79, 67290), (83, 67257), (96, 67215), (116, 67134), (133, 66990), (134, 66984), (136, 66978), (150, 66912), (174, 66759), (183, 66705), (189, 66669), (192, 66660), (195, 66648), (198, 66639), (210, 66579), (212, 66570), (224, 66486), (225, 66480), (242, 66417), (253, 66366), (255, 66351), (257, 66333),

Gene: Renkei_91 Start: 67770, Stop: 66724, Start Num: 61

Candidate Starts for Renkei_91:

(Start: 61 @67770 has 144 MA's), (73, 67716), (74, 67698), (79, 67656), (83, 67623), (84, 67608), (85, 67599), (90, 67581), (110, 67542), (120, 67479), (128, 67416), (134, 67347), (136, 67341), (137, 67329), (156, 67221), (158, 67212), (161, 67191), (174, 67119), (186, 67041), (187, 67032), (189, 67026), (192, 67017), (198, 66996), (209, 66939), (216, 66909), (221, 66867), (229, 66837), (240, 66783), (244, 66762), (248, 66738), (251, 66729),

Gene: Reprobate_89 Start: 66936, Stop: 65863, Start Num: 61

Candidate Starts for Reprobate_89:

(34, 67062), (39, 67050), (47, 67011), (Start: 61 @66936 has 144 MA's), (79, 66840), (83, 66807), (96, 66765), (106, 66735), (112, 66711), (116, 66684), (134, 66534), (136, 66528), (137, 66516), (147, 66474), (158, 66402), (179, 66270), (183, 66255), (185, 66243), (189, 66216), (192, 66207), (195, 66195), (201, 66162), (209, 66129), (210, 66126), (211, 66120), (212, 66117), (224, 66033), (225, 66027), (236, 65991), (254, 65910), (258, 65880),

Gene: Rhinoforte_85 Start: 64826, Stop: 63756, Start Num: 61

Candidate Starts for Rhinoforte_85:

(Start: 61 @64826 has 144 MA's), (Start: 70 @64796 has 1 MA's), (79, 64730), (81, 64721), (83, 64697), (85, 64673), (93, 64649), (134, 64394), (136, 64388), (137, 64376), (145, 64343), (150, 64322), (157, 64265), (158, 64262), (165, 64223), (167, 64214), (171, 64184), (174, 64169), (177, 64151), (180, 64127), (184, 64106), (189, 64076), (195, 64055), (209, 63989), (210, 63986), (216, 63959), (217, 63953), (231, 63878), (237, 63842),

Gene: Rich_88 Start: 67174, Stop: 66101, Start Num: 61

Candidate Starts for Rich_88:

(35, 67288), (Start: 61 @67174 has 144 MA's), (79, 67078), (83, 67045), (116, 66922), (133, 66778), (134, 66772), (136, 66766), (150, 66700), (179, 66508), (183, 66493), (189, 66457), (192, 66448), (195, 66436), (198, 66427), (210, 66367), (212, 66358), (224, 66274), (225, 66268), (242, 66205), (255, 66139), (257, 66121),

Gene: Rinkes_87 Start: 68343, Stop: 67258, Start Num: 61

Candidate Starts for Rinkes_87:

(28, 68496), (Start: 61 @68343 has 144 MA's), (79, 68247), (83, 68214), (98, 68133), (100, 68127), (102, 68121), (108, 68109), (109, 68103), (110, 68097), (121, 68031), (126, 67980), (134, 67902), (136, 67896), (139, 67878), (150, 67833), (165, 67734), (167, 67725), (169, 67701), (183, 67626), (187, 67593), (192, 67578), (195, 67566), (198, 67557), (205, 67518), (207, 67509), (209, 67500), (210, 67497), (211, 67491), (212, 67488), (213, 67482), (222, 67416), (224, 67404), (239, 67353),

Gene: Rita130_89 Start: 67088, Stop: 66015, Start Num: 61

Candidate Starts for Rita130_89:

(Start: 61 @67088 has 144 MA's), (79, 66992), (83, 66959), (96, 66917), (116, 66836), (134, 66686), (136, 66680), (150, 66614), (174, 66461), (179, 66422), (183, 66407), (189, 66371), (192, 66362), (195, 66350), (198, 66341), (210, 66281), (212, 66272), (224, 66188), (225, 66182), (242, 66119), (255, 66053), (257, 66035),

Gene: Rita1961_98 Start: 67249, Stop: 66191, Start Num: 61

Candidate Starts for Rita1961_98:

(24, 67423), (Start: 32 @67393 has 6 MA's), (Start: 52 @67303 has 17 MA's), (Start: 61 @67249 has 144 MA's), (Start: 70 @67219 has 1 MA's), (79, 67135), (83, 67102), (101, 67030), (120, 66958), (130, 66877), (133, 66832), (134, 66826), (136, 66820), (137, 66808), (145, 66772), (161, 66670), (165, 66652), (173, 66607), (184, 66535), (186, 66520), (193, 66493), (195, 66484), (206, 66427), (221, 66343), (224, 66319), (234, 66289),

Gene: Rockabye_179 Start: 108727, Stop: 109707, Start Num: 61

Candidate Starts for Rockabye_179:

(Start: 61 @108727 has 144 MA's), (72, 108769), (133, 109105), (138, 109132), (149, 109168), (160, 109246), (177, 109342), (185, 109390), (205, 109474), (208, 109486), (215, 109519), (245, 109687),

Gene: RomaT_97 Start: 67526, Stop: 66414, Start Num: 52

Candidate Starts for RomaT_97:

(24, 67646), (Start: 32 @67616 has 6 MA's), (Start: 52 @67526 has 17 MA's), (Start: 61 @67472 has 144 MA's), (Start: 70 @67442 has 1 MA's), (79, 67358), (83, 67325), (101, 67253), (120, 67181), (130, 67100), (133, 67055), (134, 67049), (136, 67043), (137, 67031), (145, 66995), (161, 66893), (165, 66875), (173, 66830), (184, 66758), (186, 66743), (193, 66716), (195, 66707), (206, 66650), (221, 66566), (224, 66542), (234, 66512),

Gene: Rosebush_83 Start: 64898, Stop: 63828, Start Num: 61

Candidate Starts for Rosebush_83:

(Start: 61 @64898 has 144 MA's), (Start: 70 @64868 has 1 MA's), (79, 64802), (81, 64793), (83, 64769), (85, 64745), (93, 64721), (134, 64466), (136, 64460), (137, 64448), (145, 64415), (150, 64394), (157, 64337), (158, 64334), (165, 64295), (167, 64286), (171, 64256), (174, 64241), (180, 64199), (184, 64178), (189, 64148), (195, 64127), (209, 64061), (210, 64058), (216, 64031), (217, 64025), (231, 63950), (237, 63914),

Gene: SJReid_179 Start: 106944, Stop: 107924, Start Num: 61

Candidate Starts for SJReid_179:

(Start: 61 @106944 has 144 MA's), (72, 106986), (133, 107322), (138, 107349), (149, 107385), (160, 107463), (177, 107559), (184, 107604), (185, 107607), (193, 107646), (195, 107655), (205, 107691), (208, 107703), (215, 107736), (245, 107904), (247, 107910),

Gene: Sabella_85 Start: 64734, Stop: 63664, Start Num: 61

Candidate Starts for Sabella_85:

(Start: 61 @64734 has 144 MA's), (Start: 70 @64704 has 1 MA's), (79, 64638), (81, 64629), (83, 64605), (85, 64581), (93, 64557), (134, 64302), (136, 64296), (137, 64284), (145, 64251), (150, 64230), (157, 64173), (158, 64170), (165, 64131), (167, 64122), (171, 64092), (174, 64077), (177, 64059), (180, 64035), (184, 64014), (189, 63984), (195, 63963), (209, 63897), (210, 63894), (216, 63867), (217, 63861), (231, 63786), (237, 63750),

Gene: Saguaro_84 Start: 66210, Stop: 65080, Start Num: 42

Candidate Starts for Saguaro_84:

(Start: 42 @66210 has 1 MA's), (49, 66177), (Start: 61 @66126 has 144 MA's), (79, 66030), (83, 65997), (84, 65982), (96, 65955), (102, 65931), (111, 65916), (113, 65910), (120, 65868), (133,

65742), (134, 65736), (136, 65730), (143, 65691), (147, 65676), (154, 65625), (156, 65613), (158, 65604), (169, 65532), (173, 65520), (174, 65511), (183, 65457), (189, 65418), (192, 65409), (195, 65397), (198, 65388), (205, 65349), (207, 65340), (209, 65331), (210, 65328), (212, 65319), (224, 65235), (225, 65229), (233, 65211), (236, 65193), (239, 65184), (246, 65142),

Gene: ScoobySnack_47 Start: 30666, Stop: 31676, Start Num: 63

Candidate Starts for ScoobySnack_47:

(Start: 56 @30624 has 10 MA's), (Start: 63 @30666 has 1 MA's), (79, 30762), (84, 30810), (114, 30900), (134, 31059), (136, 31065), (137, 31077), (138, 31080), (154, 31158), (155, 31161), (184, 31335), (218, 31491), (230, 31563), (239, 31605), (252, 31665),

Gene: Serendipitous_91 Start: 67097, Stop: 66021, Start Num: 61

Candidate Starts for Serendipitous_91:

(Start: 61 @67097 has 144 MA's), (79, 67001), (83, 66968), (116, 66845), (133, 66701), (134, 66695), (136, 66689), (150, 66623), (158, 66563), (174, 66470), (177, 66452), (179, 66431), (183, 66416), (184, 66407), (189, 66377), (192, 66368), (195, 66356), (210, 66287), (212, 66278), (224, 66194), (225, 66188), (255, 66062), (257, 66044),

Gene: Shade_76 Start: 50360, Stop: 49365, Start Num: 65

Candidate Starts for Shade_76:

(Start: 65 @50360 has 21 MA's), (82, 50267), (92, 50204), (100, 50186), (131, 50006), (133, 49982), (134, 49976), (137, 49958), (138, 49955), (153, 49880), (163, 49829), (184, 49700), (186, 49685), (195, 49649), (202, 49616), (238, 49433),

Gene: Shatter_80 Start: 59316, Stop: 58309, Start Num: 61

Candidate Starts for Shatter_80:

(Start: 61 @59316 has 144 MA's), (79, 59220), (83, 59187), (84, 59172), (102, 59121), (111, 59106), (133, 58932), (134, 58926), (137, 58908), (150, 58854), (155, 58812), (156, 58803), (161, 58773), (169, 58722), (205, 58539), (209, 58521), (210, 58518), (217, 58485), (221, 58449), (247, 58326),

Gene: Shenandoah_97 Start: 66824, Stop: 65766, Start Num: 61

Candidate Starts for Shenandoah_97:

(24, 66998), (Start: 32 @66968 has 6 MA's), (Start: 52 @66878 has 17 MA's), (Start: 61 @66824 has 144 MA's), (Start: 70 @66794 has 1 MA's), (79, 66710), (83, 66677), (101, 66605), (120, 66533), (130, 66452), (133, 66407), (134, 66401), (136, 66395), (137, 66383), (139, 66377), (145, 66347), (161, 66245), (165, 66227), (173, 66182), (184, 66110), (186, 66095), (193, 66068), (195, 66059), (206, 66002), (221, 65918), (224, 65894), (234, 65864),

Gene: Shenyu_91 Start: 67503, Stop: 66430, Start Num: 61

Candidate Starts for Shenyu_91:

(13, 67812), (21, 67698), (27, 67656), (Start: 61 @67503 has 144 MA's), (79, 67407), (83, 67374), (96, 67332), (114, 67260), (116, 67251), (133, 67107), (134, 67101), (136, 67095), (150, 67029), (158, 66969), (174, 66876), (175, 66867), (179, 66837), (183, 66822), (189, 66783), (192, 66774), (195, 66762), (210, 66693), (211, 66687), (212, 66684), (224, 66600), (225, 66594), (236, 66555), (255, 66465), (256, 66462), (257, 66447),

Gene: Sicarius2_78 Start: 48605, Stop: 47610, Start Num: 65

Candidate Starts for Sicarius2_78:

(Start: 65 @48605 has 21 MA's), (82, 48512), (89, 48458), (92, 48449), (100, 48431), (131, 48251), (134, 48221), (137, 48203), (155, 48119), (156, 48110), (163, 48074), (168, 48047), (195, 47894), (202, 47861), (238, 47678),

Gene: SirJeffery_88 Start: 67154, Stop: 65760, Start Num: 61

Candidate Starts for SirJeffery_88:

(33, 67277), (34, 67271), (Start: 61 @67154 has 144 MA's), (79, 67058), (83, 67025), (96, 66983), (116, 66902), (134, 66752), (136, 66746), (150, 66680), (174, 66527), (183, 66473), (189, 66437), (192, 66428), (195, 66416), (198, 66407), (210, 66347), (212, 66338), (224, 66254), (225, 66248), (242, 66185), (253, 66134), (255, 66119), (259, 66083), (260, 66062), (261, 65954), (262, 65915), (263, 65804), (264, 65783),

Gene: Sisko_78 Start: 59761, Stop: 58751, Start Num: 61

Candidate Starts for Sisko_78:

(31, 59902), (45, 59839), (Start: 61 @59761 has 144 MA's), (79, 59665), (83, 59632), (96, 59590), (113, 59548), (133, 59380), (134, 59374), (136, 59368), (147, 59311), (156, 59248), (161, 59218), (167, 59191), (177, 59128), (183, 59092), (189, 59053), (210, 58963), (221, 58894), (224, 58870), (225, 58864), (248, 58771),

Gene: SlippinJimmy_100 Start: 68272, Stop: 67214, Start Num: 61

Candidate Starts for SlippinJimmy_100:

(24, 68446), (Start: 32 @68416 has 6 MA's), (Start: 52 @68326 has 17 MA's), (Start: 61 @68272 has 144 MA's), (Start: 70 @68242 has 1 MA's), (79, 68158), (83, 68125), (101, 68053), (120, 67981), (130, 67900), (133, 67855), (134, 67849), (136, 67843), (137, 67831), (139, 67825), (145, 67795), (161, 67693), (165, 67675), (173, 67630), (184, 67558), (186, 67543), (193, 67516), (195, 67507), (206, 67450), (221, 67366), (224, 67342), (234, 67312),

Gene: Sonali_94 Start: 58994, Stop: 57999, Start Num: 61

Candidate Starts for Sonali_94:

(Start: 61 @58994 has 144 MA's), (79, 58898), (82, 58880), (86, 58835), (87, 58832), (132, 58613), (134, 58601), (137, 58583), (138, 58580), (173, 58397), (184, 58325), (195, 58274), (204, 58223), (210, 58199), (211, 58193), (221, 58130), (222, 58118),

Gene: Sonny_76 Start: 50316, Stop: 49321, Start Num: 65

Candidate Starts for Sonny_76:

(Start: 65 @50316 has 21 MA's), (82, 50223), (92, 50160), (100, 50142), (127, 50007), (131, 49962), (133, 49938), (134, 49932), (137, 49914), (138, 49911), (153, 49836), (163, 49785), (184, 49656), (186, 49641), (195, 49605), (202, 49572), (238, 49389),

Gene: Soos_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Soos_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: Sour_74 Start: 59508, Stop: 58498, Start Num: 61

Candidate Starts for Sour_74:

(Start: 61 @59508 has 144 MA's), (79, 59412), (83, 59379), (120, 59253), (121, 59250), (134, 59121), (136, 59115), (137, 59103), (147, 59058), (156, 58995), (158, 58986), (161, 58965), (174, 58893), (177, 58875), (183, 58839), (189, 58800), (209, 58713), (210, 58710), (216, 58683), (224, 58617),

Gene: StAugustine_152 Start: 88734, Stop: 87598, Start Num: 44

Candidate Starts for StAugustine_152:

(Start: 44 @88734 has 2 MA's), (79, 88548), (83, 88515), (84, 88500), (112, 88419), (121, 88371), (129, 88305), (134, 88242), (173, 88023), (175, 88005), (182, 87963), (183, 87960), (197, 87894), (206, 87843), (209, 87831), (211, 87822), (216, 87801), (224, 87735), (225, 87729), (228, 87723),

Gene: StevieBAY_78 Start: 50960, Stop: 49962, Start Num: 65

Candidate Starts for StevieBAY_78:

(Start: 62 @50966 has 2 MA's), (Start: 65 @50960 has 21 MA's), (82, 50864), (92, 50801), (100, 50783), (131, 50603), (133, 50579), (134, 50573), (137, 50555), (138, 50552), (153, 50477), (163, 50426), (186, 50282), (195, 50246), (202, 50213), (238, 50030), (248, 49979),

Gene: Stillion_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Stillion_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (123, 307), (132, 406), (134, 418), (136, 424), (148, 481), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: Sting_1 Start: 1, Stop: 1032, Start Num: 61

Candidate Starts for Sting_1:

(Start: 61 @1 has 144 MA's), (79, 97), (99, 199), (123, 307), (132, 406), (134, 418), (136, 424), (148, 481), (153, 523), (154, 526), (158, 547), (165, 586), (184, 703), (186, 718), (194, 754), (195, 757),

Gene: Stinger_89 Start: 67077, Stop: 66025, Start Num: 61

Candidate Starts for Stinger_89:

(Start: 61 @67077 has 144 MA's), (74, 67005), (77, 66975), (79, 66963), (83, 66930), (84, 66915), (85, 66906), (90, 66888), (110, 66843), (111, 66828), (112, 66825), (120, 66780), (128, 66717), (134, 66648), (136, 66642), (137, 66630), (141, 66612), (156, 66522), (158, 66513), (161, 66492), (167, 66465), (174, 66420), (181, 66375), (186, 66342), (187, 66333), (192, 66318), (198, 66297), (209, 66240), (216, 66210), (220, 66180), (221, 66168), (229, 66138), (240, 66084), (244, 66063), (248, 66039), (251, 66030),

Gene: StinkyVeggy_89 Start: 67233, Stop: 66154, Start Num: 61

Candidate Starts for StinkyVeggy_89:

(Start: 61 @67233 has 144 MA's), (79, 67137), (83, 67104), (96, 67062), (116, 66981), (134, 66831), (136, 66825), (150, 66759), (158, 66699), (164, 66666), (174, 66606), (175, 66597), (179, 66567), (183, 66552), (187, 66519), (189, 66513), (192, 66504), (195, 66492), (210, 66423), (211, 66417), (212, 66414), (224, 66330), (225, 66324), (236, 66285), (255, 66195), (256, 66192), (257, 66177),

Gene: Suigeneris_91 Start: 67330, Stop: 66257, Start Num: 61

Candidate Starts for Suigeneris_91:

(27, 67483), (37, 67441), (Start: 61 @67330 has 144 MA's), (79, 67234), (83, 67201), (96, 67159), (116, 67078), (134, 66928), (136, 66922), (150, 66856), (174, 66703), (179, 66664), (183, 66649), (192, 66604), (195, 66592), (198, 66583), (210, 66523), (212, 66514), (224, 66430), (225, 66424), (242, 66361), (255, 66295), (257, 66277),

Gene: Sunshine23_96 Start: 58602, Stop: 57607, Start Num: 61

Candidate Starts for Sunshine23_96:

(Start: 61 @58602 has 144 MA's), (79, 58506), (82, 58488), (86, 58443), (87, 58440), (132, 58221), (133, 58215), (134, 58209), (137, 58191), (138, 58188), (146, 58167), (173, 58005), (184, 57933), (195, 57882), (204, 57831), (210, 57807), (211, 57801), (221, 57738), (222, 57726),

Gene: SwainyDoc_97 Start: 67338, Stop: 66280, Start Num: 61

Candidate Starts for SwainyDoc_97:

(24, 67512), (Start: 32 @67482 has 6 MA's), (Start: 52 @67392 has 17 MA's), (Start: 61 @67338 has 144 MA's), (Start: 70 @67308 has 1 MA's), (79, 67224), (83, 67191), (101, 67119), (120, 67047), (130, 66966), (133, 66921), (134, 66915), (136, 66909), (137, 66897), (145, 66861), (161, 66759), (165, 66741), (173, 66696), (184, 66624), (186, 66609), (193, 66582), (195, 66573), (206, 66516), (221, 66432), (224, 66408), (234, 66378),

Gene: SynergyX_98 Start: 67214, Stop: 66156, Start Num: 61

Candidate Starts for SynergyX_98:

(24, 67388), (Start: 32 @67358 has 6 MA's), (Start: 52 @67268 has 17 MA's), (Start: 61 @67214 has 144 MA's), (Start: 70 @67184 has 1 MA's), (79, 67100), (83, 67067), (101, 66995), (120, 66923), (130, 66842), (133, 66797), (134, 66791), (136, 66785), (137, 66773), (139, 66767), (145, 66737), (161, 66635), (165, 66617), (173, 66572), (184, 66500), (186, 66485), (193, 66458), (195, 66449), (206, 66392), (221, 66308), (224, 66284), (234, 66254),

Gene: TA17A_88 Start: 64741, Stop: 63671, Start Num: 61

Candidate Starts for TA17A_88:

(Start: 61 @64741 has 144 MA's), (Start: 70 @64711 has 1 MA's), (79, 64645), (81, 64636), (83, 64612), (85, 64588), (93, 64564), (134, 64309), (136, 64303), (137, 64291), (145, 64258), (150, 64237), (157, 64180), (158, 64177), (165, 64138), (167, 64129), (171, 64099), (174, 64084), (180, 64042), (184, 64021), (189, 63991), (195, 63970), (209, 63904), (210, 63901), (216, 63874), (217, 63868), (231, 63793), (237, 63757),

Gene: TaeYoung_77 Start: 50521, Stop: 49526, Start Num: 65

Candidate Starts for TaeYoung_77:

(Start: 65 @50521 has 21 MA's), (82, 50428), (92, 50365), (100, 50347), (131, 50167), (133, 50143), (134, 50137), (137, 50119), (138, 50116), (153, 50041), (163, 49990), (184, 49861), (186, 49846), (195, 49810), (202, 49777), (238, 49594),

Gene: Talia1610_176 Start: 116051, Stop: 117025, Start Num: 61

Candidate Starts for Talia1610_176:

(Start: 61 @116051 has 144 MA's), (72, 116093), (133, 116432), (149, 116495), (154, 116537), (164, 116591), (177, 116669), (208, 116813), (214, 116840), (215, 116846), (243, 116984),

Gene: Timinator_78 Start: 50779, Stop: 49781, Start Num: 65

Candidate Starts for Timinator_78:

(Start: 62 @50785 has 2 MA's), (Start: 65 @50779 has 21 MA's), (82, 50683), (92, 50620), (100, 50602), (131, 50422), (133, 50398), (134, 50392), (137, 50374), (138, 50371), (153, 50296), (163, 50245), (186, 50101), (195, 50065), (202, 50032), (238, 49849), (248, 49798),

Gene: Tinciduntolum_86 Start: 64905, Stop: 63835, Start Num: 61

Candidate Starts for Tinciduntolum_86:

(Start: 61 @64905 has 144 MA's), (Start: 70 @64875 has 1 MA's), (79, 64809), (81, 64800), (83, 64776), (85, 64752), (93, 64728), (134, 64473), (136, 64467), (137, 64455), (145, 64422), (150, 64401), (157, 64344), (158, 64341), (165, 64302), (167, 64293), (171, 64263), (174, 64248), (180, 64206), (184, 64185), (189, 64155), (195, 64134), (209, 64068), (210, 64065), (216, 64038), (217, 64032), (231, 63957), (237, 63921),

Gene: TinyTerror_98 Start: 67389, Stop: 66277, Start Num: 52

Candidate Starts for TinyTerror_98:

(24, 67509), (Start: 32 @67479 has 6 MA's), (Start: 52 @67389 has 17 MA's), (Start: 61 @67335 has 144 MA's), (Start: 70 @67305 has 1 MA's), (79, 67221), (83, 67188), (101, 67116), (120, 67044), (130, 66963), (133, 66918), (134, 66912), (136, 66906), (137, 66894), (145, 66858), (161, 66756), (165, 66738), (173, 66693), (184, 66621), (186, 66606), (193, 66579), (195, 66570), (206, 66513), (221, 66429), (224, 66405), (234, 66375),

Gene: TraderJ_80 Start: 59378, Stop: 58359, Start Num: 61

Candidate Starts for TraderJ_80:

(Start: 61 @59378 has 144 MA's), (79, 59282), (83, 59249), (85, 59225), (87, 59216), (99, 59192), (110, 59174), (113, 59153), (131, 59006), (133, 58982), (134, 58976), (137, 58958), (150, 58904), (153, 58868), (161, 58823), (169, 58772), (189, 58658), (210, 58568), (216, 58541), (217, 58535), (239, 58424),

Gene: Tres_85 Start: 64759, Stop: 63689, Start Num: 61

Candidate Starts for Tres_85:

(22, 64954), (Start: 61 @64759 has 144 MA's), (Start: 70 @64729 has 1 MA's), (79, 64663), (81, 64654), (83, 64630), (85, 64606), (93, 64582), (134, 64327), (136, 64321), (137, 64309), (145, 64276), (150, 64255), (157, 64198), (158, 64195), (165, 64156), (167, 64147), (171, 64117), (174, 64102), (177, 64084), (180, 64060), (184, 64039), (189, 64009), (195, 63988), (209, 63922), (210, 63919), (216, 63892), (217, 63886), (231, 63811), (237, 63775),

Gene: Tydolla_93 Start: 66890, Stop: 65832, Start Num: 61

Candidate Starts for Tydolla_93:

(24, 67064), (Start: 32 @67034 has 6 MA's), (Start: 52 @66944 has 17 MA's), (Start: 61 @66890 has 144 MA's), (Start: 70 @66860 has 1 MA's), (79, 66776), (83, 66743), (101, 66671), (120, 66599), (130, 66518), (133, 66473), (134, 66467), (136, 66461), (137, 66449), (145, 66413), (161, 66311), (165, 66293), (173, 66248), (184, 66176), (186, 66161), (193, 66134), (195, 66125), (206, 66068), (221, 65984), (224, 65960), (234, 65930),

Gene: Vic9_00083 Start: 65292, Stop: 64222, Start Num: 61

Candidate Starts for Vic9_00083:

(Start: 61 @65292 has 144 MA's), (Start: 70 @65262 has 1 MA's), (79, 65196), (81, 65187), (83, 65163), (85, 65139), (93, 65115), (114, 65019), (134, 64860), (136, 64854), (137, 64842), (145, 64809), (150, 64788), (157, 64731), (158, 64728), (165, 64689), (167, 64680), (171, 64650), (174, 64635), (180, 64593), (184, 64572), (189, 64542), (195, 64521), (209, 64455), (210, 64452), (216, 64425), (217, 64419), (231, 64344), (237, 64308),

Gene: Vincenzo_91 Start: 69502, Stop: 68453, Start Num: 61

Candidate Starts for Vincenzo_91:

(11, 69841), (Start: 61 @69502 has 144 MA's), (73, 69448), (79, 69388), (80, 69382), (83, 69355), (87, 69322), (110, 69277), (111, 69262), (112, 69259), (120, 69214), (122, 69196), (125, 69166), (128, 69151), (133, 69088), (134, 69082), (136, 69076), (137, 69064), (141, 69046), (152, 68977), (154, 68968), (156, 68956), (161, 68926), (174, 68854), (181, 68809), (186, 68776), (189, 68761), (192, 68752), (209, 68674), (220, 68614), (221, 68602), (232, 68560), (241, 68506), (242, 68500), (244, 68491), (249, 68464), (251, 68458),

Gene: VioletZ_94 Start: 69001, Stop: 67943, Start Num: 61

Candidate Starts for VioletZ_94:

(Start: 61 @69001 has 144 MA's), (73, 68947), (79, 68887), (80, 68881), (83, 68854), (84, 68839), (85, 68830), (90, 68812), (110, 68773), (112, 68755), (113, 68752), (120, 68710), (128, 68647), (134, 68578), (137, 68560), (141, 68542), (145, 68524), (156, 68452), (158, 68443), (161, 68422), (181, 68305), (183, 68296), (186, 68272), (187, 68263), (198, 68227), (209, 68170), (216, 68140), (220, 68110), (221, 68098), (223, 68077), (240, 68002), (244, 67981), (251, 67948),

Gene: Violeta_52 Start: 30920, Stop: 31972, Start Num: 56

Candidate Starts for Violeta_52:

(Start: 56 @30920 has 10 MA's), (Start: 63 @30962 has 1 MA's), (79, 31058), (84, 31106), (114, 31196), (134, 31355), (136, 31361), (138, 31376), (151, 31418), (155, 31457), (184, 31631), (207, 31739), (230, 31859), (239, 31901), (252, 31961),

Gene: Waleliano_91 Start: 68648, Stop: 67590, Start Num: 61

Candidate Starts for Waleliano_91:

(Start: 61 @68648 has 144 MA's), (79, 68534), (80, 68528), (83, 68501), (84, 68486), (85, 68477), (90, 68459), (110, 68420), (112, 68402), (120, 68357), (128, 68294), (134, 68225), (137, 68207), (141, 68189), (145, 68171), (151, 68147), (156, 68099), (158, 68090), (161, 68069), (181, 67952), (183,

67943), (186, 67919), (187, 67910), (192, 67895), (198, 67874), (209, 67817), (216, 67787), (221, 67745), (223, 67724), (240, 67649), (244, 67628), (249, 67601), (251, 67595),

Gene: Warren_50 Start: 30876, Stop: 31928, Start Num: 56

Candidate Starts for Warren_50:

(38, 30789), (Start: 56 @30876 has 10 MA's), (Start: 63 @30918 has 1 MA's), (79, 31014), (84, 31062), (114, 31152), (134, 31311), (136, 31317), (138, 31332), (151, 31374), (155, 31413), (184, 31587), (207, 31695), (230, 31815), (239, 31857), (252, 31917),

Gene: West99_85 Start: 64928, Stop: 63858, Start Num: 61

Candidate Starts for West99_85:

(Start: 61 @64928 has 144 MA's), (Start: 70 @64898 has 1 MA's), (79, 64832), (81, 64823), (83, 64799), (85, 64775), (93, 64751), (134, 64496), (136, 64490), (137, 64478), (145, 64445), (150, 64424), (157, 64367), (158, 64364), (165, 64325), (167, 64316), (171, 64286), (174, 64271), (177, 64253), (180, 64229), (184, 64208), (189, 64178), (195, 64157), (209, 64091), (210, 64088), (216, 64061), (217, 64055), (231, 63980), (237, 63944),

Gene: Winchester007_66 Start: 36600, Stop: 37652, Start Num: 56

Candidate Starts for Winchester007_66:

(Start: 56 @36600 has 10 MA's), (Start: 63 @36642 has 1 MA's), (79, 36738), (84, 36786), (114, 36876), (134, 37035), (136, 37041), (138, 37056), (155, 37137), (184, 37311), (207, 37419), (230, 37539), (239, 37581), (252, 37641),

Gene: Wooper_81 Start: 59350, Stop: 58331, Start Num: 61

Candidate Starts for Wooper_81:

(40, 59446), (45, 59428), (54, 59392), (Start: 61 @59350 has 144 MA's), (79, 59254), (82, 59236), (83, 59221), (85, 59197), (87, 59188), (99, 59164), (110, 59146), (113, 59125), (131, 58978), (133, 58954), (134, 58948), (137, 58930), (150, 58876), (153, 58840), (161, 58795), (169, 58744), (189, 58630), (210, 58540), (216, 58513), (217, 58507), (239, 58396),

Gene: Wyborn_77 Start: 49339, Stop: 48344, Start Num: 65

Candidate Starts for Wyborn_77:

(Start: 65 @49339 has 21 MA's), (82, 49246), (89, 49192), (92, 49183), (100, 49165), (121, 49084), (131, 48985), (134, 48955), (137, 48937), (155, 48853), (156, 48844), (163, 48808), (168, 48781), (195, 48628), (202, 48595), (238, 48412),

Gene: Xincheng_84 Start: 68764, Stop: 67706, Start Num: 61

Candidate Starts for Xincheng_84:

(Start: 61 @68764 has 144 MA's), (73, 68710), (79, 68650), (80, 68644), (83, 68617), (84, 68602), (85, 68593), (90, 68575), (110, 68536), (112, 68518), (113, 68515), (120, 68473), (128, 68410), (134, 68341), (137, 68323), (141, 68305), (145, 68287), (156, 68215), (158, 68206), (161, 68185), (181, 68068), (183, 68059), (186, 68035), (187, 68026), (192, 68011), (198, 67990), (209, 67933), (216, 67903), (220, 67873), (221, 67861), (223, 67840), (240, 67765), (244, 67744), (249, 67717), (251, 67711),

Gene: Yago84_77 Start: 59460, Stop: 58450, Start Num: 61

Candidate Starts for Yago84_77:

(31, 59601), (45, 59538), (Start: 61 @59460 has 144 MA's), (79, 59364), (83, 59331), (96, 59289), (113, 59247), (133, 59079), (134, 59073), (136, 59067), (147, 59010), (156, 58947), (161, 58917), (167, 58890), (177, 58827), (183, 58791), (189, 58752), (210, 58662), (221, 58593), (224, 58569), (225, 58563), (248, 58470),

Gene: Yahalom_95 Start: 66769, Stop: 65657, Start Num: 52

Candidate Starts for Yahalom_95:

(24, 66889), (Start: 32 @66859 has 6 MA's), (Start: 52 @66769 has 17 MA's), (Start: 61 @66715 has 144 MA's), (Start: 70 @66685 has 1 MA's), (79, 66601), (83, 66568), (101, 66496), (120, 66424), (130, 66343), (133, 66298), (134, 66292), (136, 66286), (137, 66274), (145, 66238), (161, 66136), (165, 66118), (173, 66073), (184, 66001), (186, 65986), (193, 65959), (195, 65950), (206, 65893), (221, 65809), (224, 65785), (234, 65755),

Gene: Yeshua_80 Start: 59326, Stop: 58307, Start Num: 61

Candidate Starts for Yeshua_80:

(40, 59422), (45, 59404), (54, 59368), (Start: 61 @59326 has 144 MA's), (79, 59230), (82, 59212), (83, 59197), (85, 59173), (87, 59164), (99, 59140), (110, 59122), (113, 59101), (131, 58954), (133, 58930), (134, 58924), (137, 58906), (150, 58852), (153, 58816), (161, 58771), (169, 58720), (209, 58519), (210, 58516), (216, 58489), (217, 58483), (239, 58372),

Gene: Yinz_95 Start: 66316, Stop: 65258, Start Num: 61

Candidate Starts for Yinz_95:

(24, 66490), (Start: 32 @66460 has 6 MA's), (Start: 52 @66370 has 17 MA's), (Start: 61 @66316 has 144 MA's), (Start: 70 @66286 has 1 MA's), (79, 66202), (83, 66169), (101, 66097), (120, 66025), (130, 65944), (133, 65899), (134, 65893), (136, 65887), (137, 65875), (145, 65839), (161, 65737), (165, 65719), (173, 65674), (184, 65602), (186, 65587), (193, 65560), (195, 65551), (206, 65494), (221, 65410), (224, 65386), (234, 65356),

Gene: Zartrosa_78 Start: 50212, Stop: 49217, Start Num: 65

Candidate Starts for Zartrosa_78:

(Start: 65 @50212 has 21 MA's), (82, 50119), (92, 50056), (100, 50038), (127, 49903), (131, 49858), (133, 49834), (134, 49828), (137, 49810), (138, 49807), (153, 49732), (163, 49681), (184, 49552), (186, 49537), (195, 49501), (202, 49468), (238, 49285),

Gene: Zemanar_90 Start: 68665, Stop: 67607, Start Num: 61

Candidate Starts for Zemanar_90:

(Start: 61 @68665 has 144 MA's), (73, 68611), (74, 68593), (79, 68551), (80, 68545), (83, 68518), (84, 68503), (85, 68494), (90, 68476), (110, 68437), (112, 68419), (120, 68374), (128, 68311), (134, 68242), (137, 68224), (141, 68206), (145, 68188), (156, 68116), (158, 68107), (161, 68086), (181, 67969), (183, 67960), (186, 67936), (187, 67927), (192, 67912), (198, 67891), (209, 67834), (216, 67804), (220, 67774), (221, 67762), (223, 67741), (240, 67666), (244, 67645), (251, 67612),