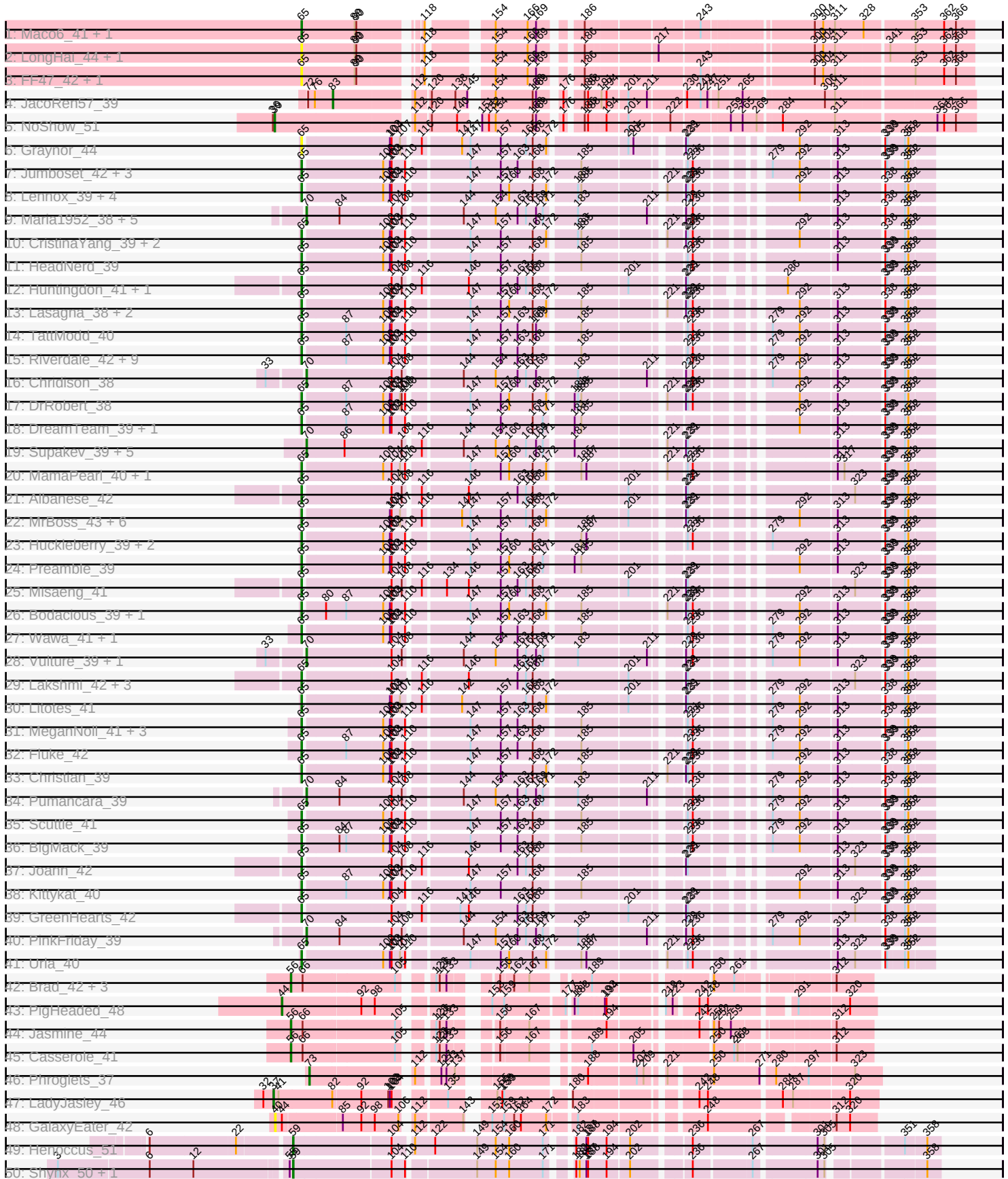
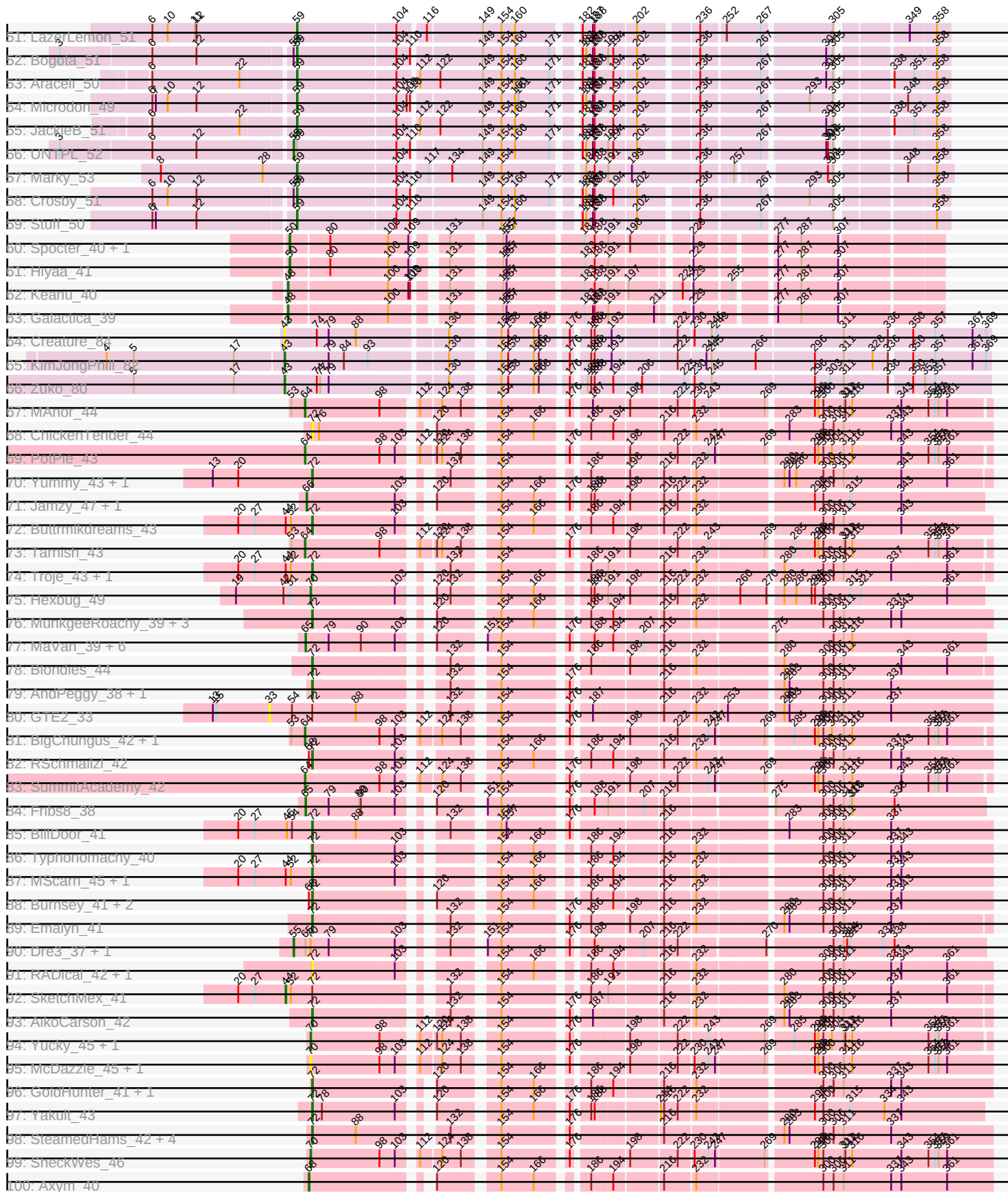


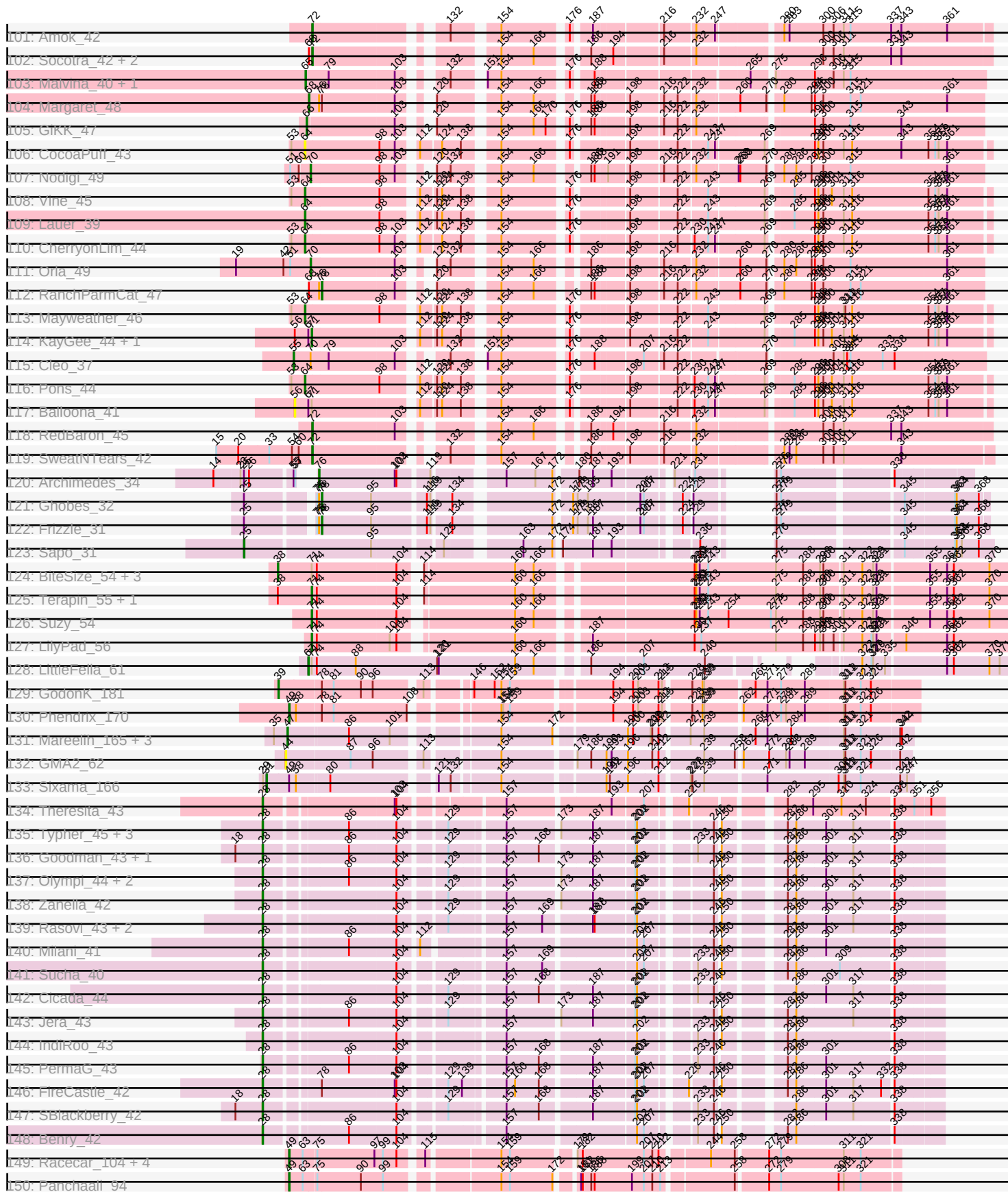
Pham 320848



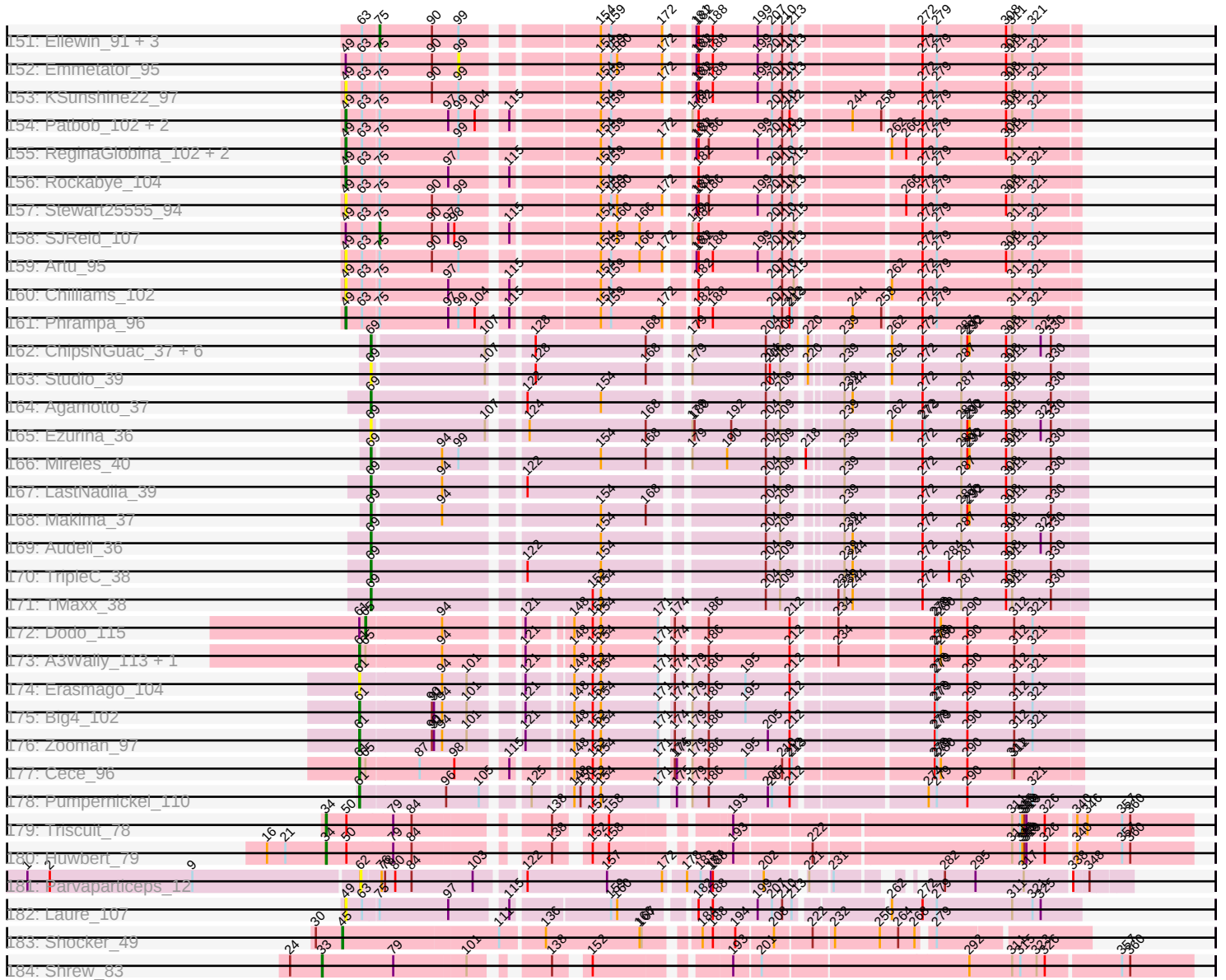
Pham 320848



Pham 320848



Pham 320848



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 320848 Report

This analysis was run 09/05/26 on database version 662.

Pham number 320848 has 305 members, 44 are drafts.

Phages represented in each track:

- Track 1 : Maco6_41, Muddy_43
- Track 2 : LongHai_44, Salvus_44
- Track 3 : FF47_42, 8UZL_43
- Track 4 : JacoRen57_39
- Track 5 : NoShow_51
- Track 6 : Graynor_44
- Track 7 : Jumboset_42, MrGloopy_42, Glenn_42, Savage2526_42
- Track 8 : Lennox_39, WonderBoy_38, PitaDog_39, Makoto_39, Lucy_39
- Track 9 : Maria1952_38, Daiboju_39, Sergei_39, Temper16_39, Herb_39, KingBob_39
- Track 10 : CristinaYang_39, ChewChew_39, LilStuart_39
- Track 11 : HeadNerd_39
- Track 12 : Huntingdon_41, RcigaStruga_41
- Track 13 : Lasagna_38, OurGirlNessie_38, Pterodactyl_39
- Track 14 : TattModd_40
- Track 15 : Riverdale_42, Beethoven_41, Vallejo_42, Immaculata_41, Kalizoi_41, Carpal_41, Cholula_41, BrotherBLo_41, Rozby_41, Potatoes_41
- Track 16 : Chridison_38
- Track 17 : DrRobert_38
- Track 18 : DreamTeam_39, Gisselle_39
- Track 19 : Supakev_39, Eunoia_39, AustinPowers_39, Riovina_39, OMalley_39, Aledel_39
- Track 20 : MamaPearl_40, EstebanJulior_40
- Track 21 : Albanese_42
- Track 22 : MrBoss_43, CallieOMalley_41, AppleCider_41, Wayne_41, Canowicakte_41, Suppi_41, PartyCup_42
- Track 23 : Huckleberry_39, Moki_39, Bennie_39
- Track 24 : Preamble_39
- Track 25 : Misaeng_41
- Track 26 : Bodacious_39, Nancia_39
- Track 27 : Wawa_41, Korra_41
- Track 28 : Vulture_39, HunterDalle_39
- Track 29 : Lakshmi_42, Nubia_42, Oxyfnrius_42, Greenhouse_43
- Track 30 : Litotes_41
- Track 31 : MeganNoll_41, Zorro_42, Dino_42, RAP15_42
- Track 32 : Fluke_42
- Track 33 : Christian_39

- Track 34 : Pumancara_39
- Track 35 : Scuttle_41
- Track 36 : BigMack_39
- Track 37 : Joann_42
- Track 38 : Kittykat_40
- Track 39 : GreenHearts_42
- Track 40 : PinkFriday_39
- Track 41 : Urla_40
- Track 42 : Brad_42, GurgleFerb_42, Adat_42, Nellie_42
- Track 43 : PigHeaded_48
- Track 44 : Jasmine_44
- Track 45 : Casserole_41
- Track 46 : Phroglets_37
- Track 47 : LadyJasley_46
- Track 48 : GalaxyEater_42
- Track 49 : Henoccus_51
- Track 50 : Shynx_50, Intolerant_48
- Track 51 : LazerLemon_51
- Track 52 : Bogota_51
- Track 53 : Araceli_50
- Track 54 : Microdon_49
- Track 55 : JackieB_51
- Track 56 : UNTPL_52
- Track 57 : Marky_53
- Track 58 : Crosby_51
- Track 59 : Stuff_50
- Track 60 : Spocter_40, Kokushibo_41
- Track 61 : Hiya_41
- Track 62 : Keanu_40
- Track 63 : Galactica_39
- Track 64 : Creature_84
- Track 65 : KimJongPhill_82
- Track 66 : Zuko_80
- Track 67 : MAnor_44
- Track 68 : ChickenTender_44
- Track 69 : PotPie_43
- Track 70 : Yummy_43, Horseradish_43
- Track 71 : Jamzy_47, Button_45
- Track 72 : Buttermilkdreams_43
- Track 73 : Tarnish_43
- Track 74 : Troje_43, Biskit_43
- Track 75 : Hexbug_49
- Track 76 : MunkgeeRoachy_39, Sopespian_41, Elliott_41, PsychoKiller_40
- Track 77 : MaVan_39, Azira_39, Wallaby_41, Zareef_39, Wolfwood_39, Nibbles_38, Survivors_39
- Track 78 : Blondies_44
- Track 79 : AndPeggy_38, Yarn_38
- Track 80 : GTE2_33
- Track 81 : BigChungus_42, Feastonyeet_42
- Track 82 : RSchmailzl_42
- Track 83 : SummitAcademy_42
- Track 84 : Fribs8_38
- Track 85 : BillDoor_41

- Track 86 : Typhonomachy_40
- Track 87 : MScarn_45, Carsonalex_44
- Track 88 : Burnsey_41, Cozz_39, Agatha_41
- Track 89 : Emalyn_41
- Track 90 : Dre3_37, Gibbous_37
- Track 91 : RADical_42, Starburst_42
- Track 92 : SketchMex_41
- Track 93 : AikoCarson_42
- Track 94 : Yucky_45, Babilard_42
- Track 95 : McDazzle_45, ElJefes_44
- Track 96 : GoldHunter_41, Quasar_41
- Track 97 : Yakult_43
- Track 98 : SteamedHams_42, CanesSauce_40, CaramelLatte_40, ChocoMunchkin_40, Tolls_42
- Track 99 : SheckWes_46
- Track 100 : Axym_40
- Track 101 : Amok_42
- Track 102 : Socotra_42, Nina_40, Bubble_39
- Track 103 : Malvina_40, HippoPololi_39
- Track 104 : Margaret_48
- Track 105 : GiKK_47
- Track 106 : CocoaPuff_43
- Track 107 : Nodigi_49
- Track 108 : Vine_45
- Track 109 : Lauer_39
- Track 110 : CherryonLim_44
- Track 111 : Orla_49
- Track 112 : RanchParmCat_47
- Track 113 : Mayweather_46
- Track 114 : KayGee_44, Elinal_46
- Track 115 : Cleo_37
- Track 116 : Pons_44
- Track 117 : Balloona_41
- Track 118 : RedBaron_45
- Track 119 : SweatNTears_42
- Track 120 : Archimedes_34
- Track 121 : Ghobes_32
- Track 122 : Frizzle_31
- Track 123 : Sapo_31
- Track 124 : BiteSize_54, Beyoncage_54, Sienna_54, Madi_54
- Track 125 : Terapin_55, Djokovic_54
- Track 126 : Suzy_54
- Track 127 : LilyPad_56
- Track 128 : LittleFella_61
- Track 129 : GodonK_181
- Track 130 : Phendrix_170
- Track 131 : Mareelih_165, Forza_168, Boopy_167, BlueNGold_164
- Track 132 : GMA2_62
- Track 133 : Sixama_166
- Track 134 : Theresita_43
- Track 135 : Typher_45, AyoTeo_44, TurboVicky_43, Labella_45
- Track 136 : Goodman_43, Johann_43
- Track 137 : Olympi_44, Rootkit7_42, Alove_42

- Track 138 : Zanella_42
- Track 139 : Rasovi_43, Linayshia_43, Htur_43
- Track 140 : Milani_41
- Track 141 : Sucha_40
- Track 142 : Cicada_44
- Track 143 : Jera_43
- Track 144 : IndiRoo_43
- Track 145 : PermaG_43
- Track 146 : FireCastle_42
- Track 147 : SBlackberry_42
- Track 148 : Benry_42
- Track 149 : Racecar_104, Bloom_107, Mimi_103, Talia1610_103, FrostedClock_106
- Track 150 : Panchaali_94
- Track 151 : Ellewin_91, BooTeria_93, WaddleDee_90, DunneganBoMo_92
- Track 152 : Emmetator_95
- Track 153 : KSunshine22_97
- Track 154 : Patbob_102, FloraSnap32_103, GoldenEssence_89
- Track 155 : ReginaGlobina_102, LeoJr_102, Atuin_97
- Track 156 : Rockabye_104
- Track 157 : Stewart25555_94
- Track 158 : SJReid_107
- Track 159 : Artu_95
- Track 160 : Chilliams_102
- Track 161 : Phrampa_96
- Track 162 : ChipsNGuac_37, Roberts_37, CardboardBox_38, AnnabelLee_37, ChamoyPickle_39, Gerri43_37, Neuville_37
- Track 163 : Studio_39
- Track 164 : Agamoto_37
- Track 165 : Ezurina_36
- Track 166 : Mireles_40
- Track 167 : LastNadia_39
- Track 168 : Makima_37
- Track 169 : Audell_36
- Track 170 : TripleC_38
- Track 171 : TMaxx_38
- Track 172 : Dodo_115
- Track 173 : A3Wally_113, PauloDiaboli_113
- Track 174 : Erasmago_104
- Track 175 : Big4_102
- Track 176 : Zooman_97
- Track 177 : Cece_96
- Track 178 : Pumpnickel_110
- Track 179 : Triscuit_78
- Track 180 : Huwburt_79
- Track 181 : Parvarticeps_12
- Track 182 : Laure_107
- Track 183 : Shocker_49
- Track 184 : Shrew_83

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

The start number called the most often in the published annotations is 65, it was called in 78 of the 261 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 8UZL_43, Albanese_42, AppleCider_41, Azira_39, Beethoven_41, Bennie_39, BigMack_39, Bodacious_39, BrotherBLo_41, CallieOMalley_41, Canowicakte_41, Carpal_41, ChewChew_39, Cholula_41, Christian_39, CristinaYang_39, Dino_42, Dodo_115, DrRobert_38, DreamTeam_39, EstebanJulior_40, FF47_42, Fluke_42, Fribs8_38, Gisselle_39, Glenn_42, Graynor_44, GreenHearts_42, Greenhouse_43, HeadNerd_39, HippoPololi_39, Huckleberry_39, Huntingdon_41, Immaculata_41, Joann_42, Jumboset_42, Kalizoi_41, Kittykat_40, Korra_41, Lakshmi_42, Lasagna_38, Lennox_39, LilStuart_39, Litotes_41, LongHai_44, Lucy_39, MaVan_39, Maco6_41, Makoto_39, Malvina_40, MamaPearl_40, MeganNoll_41, Misaeng_41, Moki_39, MrBoss_43, MrGloopy_42, Muddy_43, Nancia_39, Nibbles_38, Nubia_42, OurGirlNessie_38, Oxyntfius_42, PartyCup_42, PitaDog_39, Potatoes_41, Preamble_39, Pterodactyl_39, RAP15_42, RcigaStruga_41, Riverdale_42, Rozby_41, Salvus_44, Savage2526_42, Scuttle_41, Suppi_41, Survivors_39, TattModd_40, Urla_40, Vallejo_42, Wallaby_41, Wawa_41, Wayne_41, Wolfwood_39, WonderBoy_38, Zareef_39, Zorro_42,

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

- A3Wally_113, Cece_96, Dre3_37, Gibbous_37, PauloDiaboli_113,

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

- Adat_42, Agamotto_37, Agatha_41, AikoCarson_42, Aledel_39, Alove_42, Amok_42, AndPeggy_38, AnnabelLee_37, Araceli_50, Archimedes_34, Artu_95, Atuin_97, Audell_36, AustinPowers_39, Axym_40, AyoTeo_44, Balloona_41, Bavailard_42, Benry_42, Beyoncage_54, Big4_102, BigChungus_42, BillDoor_41, Biskit_43, BiteSize_54, Blondies_44, Bloom_107, BlueNGold_164, Bogota_51, BooTeria_93, Boopy_167, Brad_42, Bubble_39, Burnsey_41, Button_45, Buttrmlkdreams_43, CanesSauce_40, CaramelLatte_40, CardboardBox_38, Carsonalex_44, Casserole_41, ChamoyPickle_39, CherryonLim_44, ChickenTender_44, Chilliamps_102, ChipsNGuac_37, ChocoMunchkin_40, Chridison_38, Cicada_44, Cleo_37, CocoaPuff_43, Cozz_39, Creature_84, Crosby_51, Daiboju_39, Djokovic_54, DunneganBoMo_92, ElJefes_44, Elinal_46, Elliott_41, Ellewin_91, Emalyn_41, Emmetator_95, Erasmago_104, Eunoia_39, Ezurina_36, Feastonyet_42, FireCastle_42, FloraSnap32_103, Forza_168, Frizzle_31, FrostedClock_106, GMA2_62, GTE2_33, Galactica_39, GalaxyEater_42, Gerri43_37, Ghobes_32, GiKK_47, GodonK_181, GoldHunter_41, GoldenEssence_89, Goodman_43, GurgleFerb_42, Henoccus_51, Herb_39, Hexbug_49, Hiya_41, Horseradish_43, Htur_43, HunterDalle_39, Huwburt_79, IndiRoo_43, Intolerant_48, JackieB_51, JacoRen57_39, Jamzy_47, Jasmine_44, Jera_43, Johann_43, KSunshine22_97, KayGee_44, Keanu_40, KimJongPhill_82, KingBob_39, Kokushibo_41, Labella_45, LadyJasley_46, LastNadiia_39, Lauer_39, Laure_107, LazerLemon_51, LeoJr_102, LilyPad_56, Linayshia_43, LittleFella_61, MAnor_44, MScarn_45, Madi_54, Makima_37, Mareelih_165, Margaret_48, Maria1952_38, Marky_53, Mayweather_46, McDazzle_45, Microdon_49, Milani_41, Mimi_103, Mireles_40, MunkgeeRoachy_39, Nellie_42, Neuvillelette_37, Nina_40, NoShow_51, Nodigi_49, OMalley_39, Olympi_44, Orla_49, Panchaali_94, Parvaparticeps_12, Patbob_102, PermaG_43, Phendrix_170, Phrampa_96, Phroglets_37, PigHeaded_48, PinkFriday_39, Pons_44, PotPie_43, PsychoKiller_40, Pumancara_39, Pumpernickel_110, Quasar_41, RADical_42, RSchmailzl_42,

Racecar_104, RanchParmCat_47, Rasovi_43, RedBaron_45, ReginaGlobina_102, Riovina_39, Roberts_37, Rockabye_104, Rootkit7_42, SBlackberry_42, SJReid_107, Sapo_31, Sergei_39, SheckWes_46, Shocker_49, Shrew_83, Shynx_50, Sienna_54, Sixama_166, SketchMex_41, Socotra_42, Sopespian_41, Spocter_40, Starburst_42, SteamedHams_42, Stewart25555_94, Studio_39, Stuff_50, Sucha_40, SummitAcademy_42, Supakev_39, Suzy_54, SweatNTears_42, TMaxx_38, Talia1610_103, Tarnish_43, Temper16_39, Terapin_55, Theresita_43, Tolls_42, TripleC_38, Triscuit_78, Troje_43, TurboVicky_43, Typher_45, Typhonomachy_40, UNTPL_52, Vine_45, Vulture_39, WaddleDee_90, Yakult_43, Yarn_38, Yucky_45, Yummy_43, Zanella_42, Zooman_97, Zuko_80,

Summary by start number:

Start 25:

- Found in 4 of 305 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Sapo_31 (DA),

Start 28:

- Found in 24 of 305 (7.9%) of genes in pham
- Manual Annotations of this start: 22 of 261
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Alove_42 (EJ), AyoTeo_44 (EJ), Benry_42 (EJ), Cicada_44 (EJ), FireCastle_42 (EJ), Goodman_43 (EJ), Htur_43 (EJ), IndiRoo_43 (EJ), Jera_43 (EJ), Johann_43 (EJ), Labella_45 (EJ), Linayshia_43 (EJ), Milani_41 (EJ), Olympi_44 (EJ), PermaG_43 (EJ), Rasovi_43 (EJ), Rootkit7_42 (EJ), SBlackberry_42 (EJ), Sucha_40 (EJ), Theresita_43 (EA7), TurboVicky_43 (EJ), Typher_45 (EJ), Zanella_42 (EJ),

Start 31:

- Found in 1 of 305 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sixama_166 (DS),

Start 33:

- Found in 6 of 305 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 33.3% of time when present
- Phage (with cluster) where this start called: GTE2_33 (CT), Shrew_83 (singleton),

Start 34:

- Found in 2 of 305 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Huwbert_79 (GG), Triscuit_78 (GG),

Start 37:

- Found in 1 of 305 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LadyJasley_46 (AV),

Start 38:

- Found in 6 of 305 (2.0%) of genes in pham
- Manual Annotations of this start: 4 of 261
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Beyoncage_54 (DG1), BiteSize_54 (DG1), Madi_54 (DG1), Sienna_54 (DG1),

Start 39:

- Found in 2 of 305 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK_181 (DK), NoShow_51 (AB),

Start 40:

- Found in 1 of 305 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GalaxyEater_42 (AV),

Start 43:

- Found in 3 of 305 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Creature_84 (BR), KimJongPhill_82 (BR), Zuko_80 (BR),

Start 44:

- Found in 9 of 305 (3.0%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 33.3% of time when present
- Phage (with cluster) where this start called: GMA2_62 (DS), PigHeaded_48 (AV), SketchMex_41 (CT),

Start 45:

- Found in 1 of 305 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shocker_49 (singleton),

Start 47:

- Found in 4 of 305 (1.3%) of genes in pham
- Manual Annotations of this start: 4 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_164 (DS), Boopy_167 (DS), Forza_168 (DS), Mareelih_165 (DS),

Start 48:

- Found in 2 of 305 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Galactica_39 (BQ), Keanu_40 (BQ),

Start 49:

- Found in 23 of 305 (7.5%) of genes in pham
- Manual Annotations of this start: 10 of 261
- Called 87.0% of time when present
- Phage (with cluster) where this start called: Artu_95 (FC), Atuin_97 (FC), Bloom_107 (FC), Chilliamps_102 (FC), FloraSnap32_103 (FC), FrostedClock_106 (FC), GoldenEssence_89 (FC), KSunshine22_97 (FC), Laure_107 (UNK), LeoJr_102 (FC), Mimi_103 (FC), Panchaali_94 (FC), Patbob_102 (FC), Phendrix_170 (DK), Phrampa_96 (FC), Racecar_104 (FC), ReginaGlobina_102 (FC), Rockabye_104 (FC), Stewart25555_94 (FC), Talia1610_103 (FC),

Start 50:

- Found in 5 of 305 (1.6%) of genes in pham
- Manual Annotations of this start: 3 of 261
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Hiya_41 (BQ), Kokushibo_41 (BQ), Spocter_40 (BQ),

Start 55:

- Found in 9 of 305 (3.0%) of genes in pham
- Manual Annotations of this start: 4 of 261
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Cleo_37 (CT), Dre3_37 (CT), Gibbous_37 (CT), UNTPL_52 (BH),

Start 56:

- Found in 9 of 305 (3.0%) of genes in pham
- Manual Annotations of this start: 6 of 261
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Adat_42 (AV), Balloona_41 (CT), Brad_42 (AV), Casserole_41 (AV), GurgleFerb_42 (AV), Jasmine_44 (AV), Nellie_42 (AV),

Start 59:

- Found in 12 of 305 (3.9%) of genes in pham
- Manual Annotations of this start: 11 of 261
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Araceli_50 (BH), Bogota_51 (BH), Crosby_51 (BH), Henoccus_51 (BH), Intolerant_48 (BH), JackieB_51 (BH), LazerLemon_51 (BH), Marky_53 (BH), Microdon_49 (BH), Shynx_50 (BH), Stuff_50 (BH),

Start 61:

- Found in 8 of 305 (2.6%) of genes in pham
- Manual Annotations of this start: 6 of 261
- Called 87.5% of time when present
- Phage (with cluster) where this start called: A3Wally_113 (GD1), Big4_102 (GD2), Cece_96 (GD3), Erasmago_104 (GD2), PauloDiaboli_113 (GD1), Pumpernickel_110 (GD4), Zooman_97 (GD2),

Start 62:

- Found in 1 of 305 (0.3%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Parvaparticeps_12 (UNK),

Start 64:

- Found in 12 of 305 (3.9%) of genes in pham
- Manual Annotations of this start: 11 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigChungus_42 (CT), CherryonLim_44 (CT), CocoaPuff_43 (CT), Feastonyeet_42 (CT), Lauer_39 (CT), MAnor_44 (CT), Mayweather_46 (CT), Pons_44 (CT), PotPie_43 (CT), SummitAcademy_42 (CT), Tarnish_43 (CT), Vine_45 (CT),

Start 65:

- Found in 91 of 305 (29.8%) of genes in pham
- Manual Annotations of this start: 78 of 261
- Called 94.5% of time when present
- Phage (with cluster) where this start called: 8UZL_43 (AB), Albanese_42 (AK), AppleCider_41 (AK), Azira_39 (CT), Beethoven_41 (AK), Bennie_39 (AK), BigMack_39 (AK), Bodacious_39 (AK), BrotherBLo_41 (AK), CallieOMalley_41 (AK), Canowicakte_41 (AK), Carpal_41 (AK), ChewChew_39 (AK), Cholula_41 (AK), Christian_39 (AK), CristinaYang_39 (AK), Dino_42 (AK), Dodo_115 (GD1), DrRobert_38 (AK), DreamTeam_39 (AK), EstebanJulior_40 (AK), FF47_42 (AB), Fluke_42 (AK), Fribs8_38 (CT), Gisselle_39 (AK), Glenn_42 (AK), Graynor_44 (AK), GreenHearts_42 (AK), Greenhouse_43 (AK), HeadNerd_39 (AK), HippoPololi_39 (CT), Huckleberry_39 (AK), Huntingdon_41 (AK), Immaculata_41 (AK), Joann_42 (AK), Jumboset_42 (AK), Kalizoi_41 (AK), Kittykat_40 (AK), Korra_41 (AK), Lakshmi_42 (AK), Lasagna_38 (AK), Lennox_39 (AK), LilStuart_39 (AK), Litotes_41 (AK), LongHai_44 (AB), Lucy_39 (AK), MaVan_39 (CT), Maco6_41 (AB), Makoto_39 (AK), Malvina_40 (CT), MamaPearl_40 (AK), MeganNoll_41 (AK), Misaeng_41 (AK), Moki_39 (AK), MrBoss_43 (AK), MrGloopy_42 (AK), Muddy_43 (AB), Nancia_39 (AK), Nibbles_38 (CT), Nubia_42 (AK), OurGirlNessie_38 (AK), Oxyntrius_42 (AK), PartyCup_42 (AK), PitaDog_39 (AK), Potatoes_41 (AK), Preamble_39 (AK), Pterodactyl_39 (AK), RAP15_42 (AK), RcigaStruga_41 (AK), Riverdale_42 (AK), Rozby_41 (AK), Salvus_44 (AB), Savage2526_42 (AK), Scuttle_41 (AK), Suppi_41 (AK), Survivors_39 (CT), TattModd_40 (AK), Urla_40 (AK), Vallejo_42 (AK), Wallaby_41 (CT), Wawa_41 (AK), Wayne_41 (AK), Wolfwood_39 (CT), WonderBoy_38 (AK), Zareef_39 (CT), Zorro_42 (AK),

Start 66:

- Found in 9 of 305 (3.0%) of genes in pham
- Manual Annotations of this start: 3 of 261
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Button_45 (CT), GiKK_47 (CT), Jamzy_47 (CT),

Start 67:

- Found in 4 of 305 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 25.0% of time when present
- Phage (with cluster) where this start called: LittleFella_61 (DG2),

Start 68:

- Found in 10 of 305 (3.3%) of genes in pham

- Manual Annotations of this start: 2 of 261
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Axym_40 (CT), Margaret_48 (CT),

Start 69:

- Found in 16 of 305 (5.2%) of genes in pham
- Manual Annotations of this start: 11 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agamoto_37 (FR), AnnabelLee_37 (FR), Audell_36 (FR), CardboardBox_38 (FR), ChamoyPickle_39 (FR), ChipsNGuac_37 (FR), Ezurina_36 (FR), Gerri43_37 (FR), LastNadia_39 (FR), Makima_37 (FR), Mireles_40 (FR), Neuville_37 (FR), Roberts_37 (FR), Studio_39 (FR), TMaxx_38 (FR), TripleC_38 (FR),

Start 70:

- Found in 28 of 305 (9.2%) of genes in pham
- Manual Annotations of this start: 23 of 261
- Called 89.3% of time when present
- Phage (with cluster) where this start called: Aledel_39 (AK), AustinPowers_39 (AK), Bavidard_42 (CT), Chridison_38 (AK), Daiboju_39 (AK), ElJefes_44 (CT), Eunoia_39 (AK), Herb_39 (AK), Hexbug_49 (CT), HunterDalle_39 (AK), KingBob_39 (AK), Maria1952_38 (AK), McDazzle_45 (CT), Nodigi_49 (CT), OMalley_39 (AK), Orla_49 (CT), PinkFriday_39 (AK), Pumancara_39 (AK), Riovina_39 (AK), Sergei_39 (AK), SheckWes_46 (CT), Supakev_39 (AK), Temper16_39 (AK), Vulture_39 (AK), Yucky_45 (CT),

Start 71:

- Found in 12 of 305 (3.9%) of genes in pham
- Manual Annotations of this start: 6 of 261
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Djokovic_54 (DG1), Elinal_46 (CT), KayGee_44 (CT), LilyPad_56 (DG1), Suzy_54 (DG1), Terapin_55 (DG1),

Start 72:

- Found in 42 of 305 (13.8%) of genes in pham
- Manual Annotations of this start: 30 of 261
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Agatha_41 (CT), AikoCarson_42 (CT), Amok_42 (CT), AndPeggy_38 (CT), BillDoor_41 (CT), Biskit_43 (CT), Blondies_44 (CT), Bubble_39 (CT), Burnsey_41 (CT), Buttrmlkdreams_43 (CT), CanesSauce_40 (CT), CaramelLatte_40 (CT), Carsonalex_44 (CT), ChickenTender_44 (CT), ChocoMunchkin_40 (CT), Cozz_39 (CT), Elliott_41 (CT), Emalyn_41 (CT), GoldHunter_41 (CT), Horseradish_43 (CT), MScarn_45 (CT), MunkgeeRoachy_39 (CT), Nina_40 (CT), PsychoKiller_40 (CT), Quasar_41 (CT), RADical_42 (CT), RSchmailz_42 (CT), RedBaron_45 (CT), Socotra_42 (CT), Sopespian_41 (CT), Starburst_42 (CT), SteamedHams_42 (CT), SweatNTears_42 (CT), Tolls_42 (CT), Troje_43 (CT), Typhonmarchy_40 (CT), Yakult_43 (CT), Yarn_38 (CT), Yummy_43 (CT),

Start 73:

- Found in 1 of 305 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Phroglets_37 (AV),

Start 75:

- Found in 27 of 305 (8.9%) of genes in pham
- Manual Annotations of this start: 5 of 261
- Called 18.5% of time when present
- Phage (with cluster) where this start called: BooTeria_93 (FC), DunneganBoMo_92 (FC), Ellewin_91 (FC), SJReid_107 (FC), WaddleDee_90 (FC),

Start 76:

- Found in 8 of 305 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Archimedes_34 (DA),

Start 78:

- Found in 9 of 305 (3.0%) of genes in pham
- Manual Annotations of this start: 3 of 261
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Frizzle_31 (DA), Ghobes_32 (DA), RanchParmCat_47 (CT),

Start 83:

- Found in 1 of 305 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 261
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_39 (AB),

Start 99:

- Found in 22 of 305 (7.2%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Emmetator_95 (FC),

Summary by clusters:

There are 23 clusters represented in this pham: GD1, FR, GD3, GD4, DK, BH, GD2, DA, FC, BQ, BR, DS, AB, EJ, AK, GG, DG1, AV, singleton, UNK, EA7, CT, DG2,

Info for manual annotations of cluster AB:

- Start number 39 was manually annotated 1 time for cluster AB.
- Start number 65 was manually annotated 2 times for cluster AB.
- Start number 83 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AK:

- Start number 65 was manually annotated 67 times for cluster AK.
- Start number 70 was manually annotated 17 times for cluster AK.

Info for manual annotations of cluster AV:

- Start number 37 was manually annotated 1 time for cluster AV.
- Start number 44 was manually annotated 1 time for cluster AV.
- Start number 56 was manually annotated 6 times for cluster AV.
- Start number 73 was manually annotated 1 time for cluster AV.

Info for manual annotations of cluster BH:

- Start number 55 was manually annotated 1 time for cluster BH.
- Start number 59 was manually annotated 11 times for cluster BH.

Info for manual annotations of cluster BQ:

- Start number 48 was manually annotated 2 times for cluster BQ.
- Start number 50 was manually annotated 3 times for cluster BQ.

Info for manual annotations of cluster BR:

- Start number 43 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CT:

- Start number 44 was manually annotated 1 time for cluster CT.
- Start number 55 was manually annotated 3 times for cluster CT.
- Start number 64 was manually annotated 11 times for cluster CT.
- Start number 65 was manually annotated 8 times for cluster CT.
- Start number 66 was manually annotated 3 times for cluster CT.
- Start number 68 was manually annotated 2 times for cluster CT.
- Start number 70 was manually annotated 6 times for cluster CT.
- Start number 71 was manually annotated 2 times for cluster CT.
- Start number 72 was manually annotated 30 times for cluster CT.
- Start number 78 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster DA:

- Start number 25 was manually annotated 1 time for cluster DA.
- Start number 76 was manually annotated 1 time for cluster DA.
- Start number 78 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster DG1:

- Start number 38 was manually annotated 4 times for cluster DG1.
- Start number 71 was manually annotated 4 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 67 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DK:

- Start number 39 was manually annotated 1 time for cluster DK.
- Start number 49 was manually annotated 1 time for cluster DK.

Info for manual annotations of cluster DS:

- Start number 31 was manually annotated 1 time for cluster DS.
- Start number 47 was manually annotated 4 times for cluster DS.

Info for manual annotations of cluster EA7:

- Start number 28 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EJ:

- Start number 28 was manually annotated 21 times for cluster EJ.

Info for manual annotations of cluster FC:

- Start number 49 was manually annotated 9 times for cluster FC.
- Start number 75 was manually annotated 5 times for cluster FC.

Info for manual annotations of cluster FR:

- Start number 69 was manually annotated 11 times for cluster FR.

Info for manual annotations of cluster GD1:

- Start number 61 was manually annotated 2 times for cluster GD1.
- Start number 65 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 61 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 61 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 61 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster GG:

- Start number 34 was manually annotated 2 times for cluster GG.

Gene Information:

Gene: 8UZL_43 Start: 31938, Stop: 30922, Start Num: 65

Candidate Starts for 8UZL_43:

(Start: 65 @31938 has 78 MA's), (89, 31845), (90, 31842), (118, 31755), (154, 31668), (166, 31611), (169, 31596), (186, 31542), (243, 31359), (300, 31188), (304, 31173), (311, 31152), (353, 31026), (362, 30975), (366, 30954),

Gene: A3Wally_113 Start: 77350, Stop: 76415, Start Num: 61

Candidate Starts for A3Wally_113:

(Start: 61 @77350 has 6 MA's), (Start: 65 @77341 has 78 MA's), (94, 77233), (121, 77143), (148, 77092), (152, 77065), (154, 77053), (171, 76969), (174, 76963), (186, 76924), (212, 76807), (234, 76756), (278, 76624), (279, 76621), (280, 76615), (290, 76576), (312, 76510), (321, 76483),

Gene: Adat_42 Start: 36942, Stop: 36106, Start Num: 56

Candidate Starts for Adat_42:

(Start: 56 @36942 has 6 MA's), (Start: 66 @36921 has 3 MA's), (105, 36762), (123, 36723), (126, 36717), (133, 36705), (156, 36654), (162, 36633), (167, 36606), (189, 36528), (250, 36354), (261, 36318), (312, 36171),

Gene: Agamotto_37 Start: 27336, Stop: 26395, Start Num: 69

Candidate Starts for Agamotto_37:

(Start: 69 @27336 has 11 MA's), (122, 27135), (154, 27027), (204, 26820), (209, 26799), (239, 26733), (244, 26721), (272, 26628), (287, 26571), (308, 26508), (311, 26499), (330, 26445),

Gene: Agatha_41 Start: 29791, Stop: 28760, Start Num: 72

Candidate Starts for Agatha_41:

(Start: 68 @29797 has 2 MA's), (Start: 72 @29791 has 30 MA's), (120, 29620), (154, 29533), (166, 29476), (186, 29407), (194, 29374), (216, 29296), (232, 29245), (300, 29050), (306, 29032), (311, 29014), (337, 28930), (343, 28912),

Gene: AikoCarson_42 Start: 30036, Stop: 29008, Start Num: 72

Candidate Starts for AikoCarson_42:

(Start: 72 @30036 has 30 MA's), (132, 29841), (154, 29778), (176, 29676), (187, 29649), (216, 29541), (232, 29490), (280, 29361), (283, 29352), (300, 29295), (306, 29277), (311, 29259), (337, 29175),

Gene: Albanese_42 Start: 28164, Stop: 29111, Start Num: 65

Candidate Starts for Albanese_42:

(Start: 65 @28164 has 78 MA's), (104, 28311), (108, 28329), (116, 28353), (146, 28428), (163, 28509), (165, 28524), (168, 28536), (201, 28686), (229, 28755), (231, 28758), (323, 28992), (338, 29037), (339, 29040), (351, 29067), (352, 29070),

Gene: Aledel_39 Start: 27504, Stop: 28451, Start Num: 70

Candidate Starts for Aledel_39:

(Start: 70 @27504 has 23 MA's), (86, 27570), (108, 27669), (116, 27693), (144, 27759), (154, 27807), (160, 27831), (165, 27861), (169, 27879), (171, 27891), (181, 27933), (221, 28071), (229, 28092), (231, 28095), (313, 28302), (338, 28377), (339, 28380), (351, 28407), (352, 28410),

Gene: Alove_42 Start: 27509, Stop: 28522, Start Num: 28

Candidate Starts for Alove_42:

(Start: 28 @27509 has 22 MA's), (86, 27638), (104, 27719), (129, 27788), (157, 27872), (173, 27956), (187, 28007), (201, 28076), (202, 28079), (246, 28181), (250, 28187), (282, 28271), (286, 28286), (301, 28337), (317, 28385), (338, 28448),

Gene: Amok_42 Start: 30060, Stop: 29032, Start Num: 72

Candidate Starts for Amok_42:

(Start: 72 @30060 has 30 MA's), (132, 29865), (154, 29802), (176, 29700), (187, 29673), (216, 29565), (232, 29514), (247, 29481), (280, 29385), (283, 29376), (300, 29319), (306, 29301), (311, 29283), (315, 29271), (337, 29199), (343, 29181), (361, 29106),

Gene: AndPeggy_38 Start: 29466, Stop: 28432, Start Num: 72

Candidate Starts for AndPeggy_38:

(Start: 72 @29466 has 30 MA's), (132, 29271), (154, 29208), (176, 29106), (216, 28971), (280, 28791), (283, 28782), (300, 28725), (306, 28707), (311, 28689), (337, 28605),

Gene: AnnabelLee_37 Start: 24525, Stop: 23593, Start Num: 69

Candidate Starts for AnnabelLee_37:

(Start: 69 @24525 has 11 MA's), (107, 24366), (128, 24321), (168, 24159), (179, 24120), (204, 24018), (209, 23997), (220, 23970), (239, 23931), (262, 23871), (272, 23826), (287, 23769), (290, 23760), (292, 23757), (308, 23706), (311, 23697), (325, 23655), (330, 23643),

Gene: AppleCider_41 Start: 27545, Stop: 28492, Start Num: 65

Candidate Starts for AppleCider_41:

(Start: 65 @27545 has 78 MA's), (103, 27689), (104, 27692), (107, 27707), (116, 27734), (142, 27797), (147, 27812), (157, 27860), (165, 27905), (168, 27917), (172, 27941), (201, 28067), (229, 28136), (231, 28139), (292, 28283), (313, 28343), (338, 28418), (339, 28421), (351, 28448), (352, 28451),

Gene: Araceli_50 Start: 35827, Stop: 36834, Start Num: 59

Candidate Starts for Araceli_50:

(6, 35590), (22, 35740), (Start: 59 @35827 has 11 MA's), (104, 35992), (112, 36022), (122, 36058), (149, 36133), (154, 36166), (160, 36190), (171, 36250), (182, 36280), (187, 36298), (188, 36301), (194, 36334), (202, 36370), (236, 36460), (267, 36556), (301, 36655), (305, 36667), (338, 36745), (351, 36778), (358, 36811),

Gene: Archimedes_34 Start: 31001, Stop: 30105, Start Num: 76

Candidate Starts for Archimedes_34:

(14, 31136), (23, 31091), (Start: 25 @31085 has 1 MA's), (26, 31076), (Start: 55 @31007 has 4 MA's), (57, 31004), (Start: 76 @31001 has 1 MA's), (103, 30872), (104, 30869), (119, 30821), (157, 30728), (167, 30677), (172, 30647), (180, 30617), (187, 30593), (193, 30560), (221, 30476), (231, 30452), (276, 30404), (279, 30398), (338, 30227),

Gene: Artu_95 Start: 79854, Stop: 80825, Start Num: 49

Candidate Starts for Artu_95:

(Start: 49 @79854 has 10 MA's), (63, 79878), (Start: 75 @79899 has 5 MA's), (90, 79974), (99, 80013), (154, 80187), (159, 80202), (166, 80244), (172, 80277), (181, 80304), (182, 80307), (188, 80328), (199, 80391), (207, 80412), (210, 80427), (213, 80439), (272, 80604), (279, 80625), (308, 80724), (311, 80733), (321, 80763),

Gene: Atuin_97 Start: 83319, Stop: 84290, Start Num: 49

Candidate Starts for Atuin_97:

(Start: 49 @83319 has 10 MA's), (63, 83343), (Start: 75 @83364 has 5 MA's), (99, 83478), (154, 83652), (159, 83667), (172, 83742), (181, 83769), (182, 83772), (186, 83787), (199, 83856), (207, 83877), (210, 83892), (213, 83904), (262, 84024), (266, 84045), (272, 84069), (279, 84090), (308, 84189), (311, 84198),

Gene: Audell_36 Start: 26923, Stop: 25982, Start Num: 69

Candidate Starts for Audell_36:

(Start: 69 @26923 has 11 MA's), (154, 26614), (204, 26407), (209, 26386), (239, 26320), (244, 26308), (272, 26215), (287, 26158), (308, 26095), (311, 26086), (325, 26044), (330, 26032),

Gene: AustinPowers_39 Start: 27502, Stop: 28449, Start Num: 70

Candidate Starts for AustinPowers_39:

(Start: 70 @27502 has 23 MA's), (86, 27568), (108, 27667), (116, 27691), (144, 27757), (154, 27805), (160, 27829), (165, 27859), (169, 27877), (171, 27889), (181, 27931), (221, 28069), (229, 28090), (231, 28093), (313, 28300), (338, 28375), (339, 28378), (351, 28405), (352, 28408),

Gene: Axym_40 Start: 29775, Stop: 28738, Start Num: 68

Candidate Starts for Axym_40:

(Start: 68 @29775 has 2 MA's), (120, 29598), (154, 29511), (166, 29454), (186, 29385), (194, 29352), (216, 29274), (232, 29223), (300, 29028), (306, 29010), (311, 28992), (337, 28908), (343, 28890), (361, 28815),

Gene: AyoTeo_44 Start: 27806, Stop: 28819, Start Num: 28

Candidate Starts for AyoTeo_44:

(Start: 28 @27806 has 22 MA's), (86, 27935), (104, 28016), (129, 28085), (157, 28169), (173, 28253), (187, 28304), (201, 28373), (202, 28376), (246, 28478), (250, 28484), (282, 28568), (286, 28583), (301, 28634), (317, 28682), (338, 28745),

Gene: Azira_39 Start: 29680, Stop: 28649, Start Num: 65

Candidate Starts for Azira_39:

(Start: 65 @29680 has 78 MA's), (79, 29641), (90, 29584), (103, 29527), (120, 29497), (151, 29431), (154, 29410), (176, 29308), (188, 29278), (194, 29251), (207, 29203), (216, 29173), (275, 29008), (306, 28912), (311, 28894), (316, 28879),

Gene: Balloona_41 Start: 30867, Stop: 29791, Start Num: 56

Candidate Starts for Balloona_41:

(Start: 56 @30867 has 6 MA's), (Start: 67 @30843 has 1 MA's), (Start: 71 @30837 has 6 MA's), (112, 30672), (120, 30648), (124, 30639), (138, 30606), (154, 30561), (176, 30459), (198, 30378), (222, 30300), (230, 30276), (243, 30252), (247, 30240), (269, 30159), (285, 30123), (296, 30090), (298, 30084), (300, 30075), (304, 30060), (311, 30039), (316, 30024), (354, 29895), (357, 29883), (359, 29877), (361, 29862),

Gene: Bavilard_42 Start: 31061, Stop: 30012, Start Num: 70

Candidate Starts for Bavilard_42:

(Start: 70 @31061 has 23 MA's), (98, 30944), (112, 30893), (120, 30869), (124, 30860), (138, 30827), (154, 30782), (176, 30680), (198, 30599), (222, 30521), (243, 30473), (269, 30380), (285, 30344), (296, 30311), (298, 30305), (300, 30296), (304, 30281), (311, 30260), (312, 30257), (316, 30245), (354, 30116), (357, 30104), (359, 30098), (361, 30083),

Gene: Beethoven_41 Start: 27476, Stop: 28423, Start Num: 65

Candidate Starts for Beethoven_41:

(Start: 65 @27476 has 78 MA's), (87, 27545), (100, 27608), (103, 27620), (104, 27623), (110, 27647), (147, 27743), (157, 27791), (163, 27821), (168, 27848), (185, 27920), (231, 28070), (236, 28079), (279, 28166), (292, 28214), (313, 28274), (338, 28349), (339, 28352), (351, 28379), (352, 28382),

Gene: Bennie_39 Start: 26287, Stop: 27234, Start Num: 65

Candidate Starts for Bennie_39:

(Start: 65 @26287 has 78 MA's), (100, 26419), (103, 26431), (104, 26434), (110, 26458), (147, 26554), (157, 26602), (168, 26659), (185, 26731), (187, 26740), (231, 26881), (236, 26890), (279, 26977), (313, 27085), (338, 27160), (339, 27163), (351, 27190), (352, 27193),

Gene: Benry_42 Start: 26004, Stop: 27011, Start Num: 28

Candidate Starts for Benry_42:

(Start: 28 @26004 has 22 MA's), (86, 26133), (104, 26214), (157, 26361), (202, 26568), (207, 26580), (233, 26643), (246, 26670), (250, 26676), (282, 26760), (286, 26775), (338, 26937),

Gene: Beyoncage_54 Start: 40427, Stop: 41632, Start Num: 38

Candidate Starts for Beyoncage_54:

(Start: 38 @40427 has 4 MA's), (Start: 71 @40487 has 6 MA's), (74, 40496), (104, 40634), (114, 40658), (160, 40811), (166, 40844), (230, 41090), (232, 41093), (235, 41099), (243, 41114), (275, 41234), (288, 41282), (299, 41312), (300, 41318), (311, 41348), (322, 41381), (329, 41399), (331, 41405), (355, 41486), (361, 41516), (362, 41528), (370, 41591),

Gene: Big4_102 Start: 76433, Stop: 75498, Start Num: 61

Candidate Starts for Big4_102:

(Start: 61 @76433 has 6 MA's), (90, 76331), (91, 76328), (94, 76316), (101, 76280), (121, 76226), (148, 76175), (152, 76148), (154, 76136), (171, 76052), (174, 76046), (179, 76031), (186, 76007), (195, 75953), (212, 75890), (278, 75707), (279, 75704), (290, 75659), (312, 75593), (321, 75566),

Gene: BigChungus_42 Start: 31250, Stop: 30192, Start Num: 64

Candidate Starts for BigChungus_42:

(53, 31274), (Start: 64 @31250 has 11 MA's), (98, 31124), (103, 31097), (112, 31073), (124, 31040), (138, 31007), (154, 30962), (176, 30860), (198, 30779), (222, 30701), (243, 30653), (247, 30641), (269, 30560), (285, 30524), (296, 30491), (298, 30485), (300, 30476), (304, 30461), (311, 30440), (316, 30425), (354, 30296), (357, 30284), (359, 30278), (361, 30263),

Gene: BigMack_39 Start: 26387, Stop: 27334, Start Num: 65

Candidate Starts for BigMack_39:

(Start: 65 @26387 has 78 MA's), (84, 26444), (87, 26456), (100, 26519), (103, 26531), (104, 26534), (110, 26558), (147, 26654), (157, 26702), (163, 26732), (168, 26759), (185, 26831), (231, 26981), (236, 26990), (279, 27077), (292, 27125), (313, 27185), (338, 27260), (339, 27263), (351, 27290), (352, 27293),

Gene: BillDoor_41 Start: 29137, Stop: 28103, Start Num: 72

Candidate Starts for BillDoor_41:

(20, 29266), (27, 29236), (46, 29182), (54, 29173), (Start: 72 @29137 has 30 MA's), (88, 29062), (132, 28942), (154, 28879), (157, 28870), (176, 28777), (216, 28642), (283, 28453), (300, 28396), (306, 28378), (311, 28360), (337, 28276),

Gene: Biskit_43 Start: 29824, Stop: 28796, Start Num: 72

Candidate Starts for Biskit_43:

(20, 29953), (27, 29923), (Start: 44 @29869 has 2 MA's), (52, 29860), (Start: 72 @29824 has 30 MA's), (132, 29629), (154, 29566), (186, 29440), (191, 29416), (216, 29329), (232, 29278), (280, 29149), (300, 29083), (306, 29065), (311, 29047), (337, 28963), (361, 28870),

Gene: BiteSize_54 Start: 40513, Stop: 41718, Start Num: 38

Candidate Starts for BiteSize_54:

(Start: 38 @40513 has 4 MA's), (Start: 71 @40573 has 6 MA's), (74, 40582), (104, 40720), (114, 40744), (160, 40897), (166, 40930), (230, 41176), (232, 41179), (235, 41185), (243, 41200), (275, 41320), (288, 41368), (299, 41398), (300, 41404), (311, 41434), (322, 41467), (329, 41485), (331, 41491), (355, 41572), (361, 41602), (362, 41614), (370, 41677),

Gene: Blondies_44 Start: 30140, Stop: 29112, Start Num: 72

Candidate Starts for Blondies_44:

(Start: 72 @30140 has 30 MA's), (132, 29945), (154, 29882), (186, 29756), (198, 29699), (216, 29645), (232, 29594), (280, 29465), (300, 29399), (306, 29381), (311, 29363), (343, 29261), (361, 29186),

Gene: Bloom_107 Start: 83495, Stop: 84466, Start Num: 49

Candidate Starts for Bloom_107:

(Start: 49 @83495 has 10 MA's), (63, 83519), (Start: 75 @83540 has 5 MA's), (97, 83639), (99, 83654), (104, 83678), (115, 83711), (154, 83828), (159, 83843), (179, 83939), (182, 83948), (207, 84053), (210, 84068), (212, 84077), (244, 84152), (258, 84194), (272, 84245), (279, 84266), (311, 84374), (321, 84404),

Gene: BlueNGold_164 Start: 94575, Stop: 93583, Start Num: 47

Candidate Starts for BlueNGold_164:

(35, 94599), (Start: 47 @94575 has 4 MA's), (86, 94473), (101, 94401), (154, 94248), (172, 94158), (196, 94050), (200, 94041), (209, 94011), (210, 94008), (212, 93999), (227, 93954), (239, 93930), (266, 93849), (271, 93828), (284, 93786), (311, 93699), (312, 93696), (321, 93669), (342, 93606), (344, 93603),

Gene: Bodacious_39 Start: 26343, Stop: 27293, Start Num: 65

Candidate Starts for Bodacious_39:

(Start: 65 @26343 has 78 MA's), (80, 26376), (87, 26412), (100, 26475), (103, 26487), (104, 26490), (110, 26514), (147, 26610), (157, 26658), (160, 26673), (168, 26715), (172, 26739), (185, 26787), (221, 26913), (229, 26937), (231, 26940), (236, 26949), (292, 27084), (313, 27144), (338, 27219), (339, 27222), (351, 27249), (352, 27252),

Gene: Bogota_51 Start: 36181, Stop: 37179, Start Num: 59

Candidate Starts for Bogota_51:

(3, 35788), (6, 35944), (12, 36022), (Start: 55 @36175 has 4 MA's), (Start: 59 @36181 has 11 MA's), (104, 36346), (110, 36370), (149, 36478), (154, 36511), (160, 36535), (171, 36595), (182, 36625), (184, 36631), (187, 36643), (188, 36646), (191, 36670), (194, 36679), (202, 36715), (236, 36805), (267, 36901), (301, 37000), (305, 37012), (358, 37156),

Gene: BooTeria_93 Start: 80012, Stop: 80938, Start Num: 75

Candidate Starts for BooTeria_93:

(63, 79991), (Start: 75 @80012 has 5 MA's), (90, 80087), (99, 80126), (154, 80300), (159, 80315), (172, 80390), (181, 80417), (182, 80420), (188, 80441), (199, 80504), (207, 80525), (210, 80540), (213, 80552), (272, 80717), (279, 80738), (308, 80837), (311, 80846), (321, 80876),

Gene: Boopy_167 Start: 94586, Stop: 93594, Start Num: 47

Candidate Starts for Boopy_167:

(35, 94610), (Start: 47 @94586 has 4 MA's), (86, 94484), (101, 94412), (154, 94259), (172, 94169), (196, 94061), (200, 94052), (209, 94022), (210, 94019), (212, 94010), (227, 93965), (239, 93941), (266, 93860), (271, 93839), (284, 93797), (311, 93710), (312, 93707), (321, 93680), (342, 93617), (344, 93614),

Gene: Brad_42 Start: 36940, Stop: 36104, Start Num: 56

Candidate Starts for Brad_42:

(Start: 56 @36940 has 6 MA's), (Start: 66 @36919 has 3 MA's), (105, 36760), (123, 36721), (126, 36715), (133, 36703), (156, 36652), (162, 36631), (167, 36604), (189, 36526), (250, 36352), (261, 36316), (312, 36169),

Gene: BrotherBLo_41 Start: 27508, Stop: 28455, Start Num: 65

Candidate Starts for BrotherBLo_41:

(Start: 65 @27508 has 78 MA's), (87, 27577), (100, 27640), (103, 27652), (104, 27655), (110, 27679), (147, 27775), (157, 27823), (163, 27853), (168, 27880), (185, 27952), (231, 28102), (236, 28111), (279, 28198), (292, 28246), (313, 28306), (338, 28381), (339, 28384), (351, 28411), (352, 28414),

Gene: Bubble_39 Start: 29378, Stop: 28347, Start Num: 72

Candidate Starts for Bubble_39:

(Start: 68 @29384 has 2 MA's), (Start: 72 @29378 has 30 MA's), (154, 29120), (166, 29063), (186, 28994), (194, 28961), (216, 28883), (232, 28832), (300, 28637), (306, 28619), (311, 28601), (337, 28517), (343, 28499),

Gene: Burnsey_41 Start: 29782, Stop: 28751, Start Num: 72

Candidate Starts for Burnsey_41:

(Start: 68 @29788 has 2 MA's), (Start: 72 @29782 has 30 MA's), (120, 29611), (154, 29524), (166, 29467), (186, 29398), (194, 29365), (216, 29287), (232, 29236), (300, 29041), (306, 29023), (311, 29005), (337, 28921), (343, 28903),

Gene: Button_45 Start: 30428, Stop: 29406, Start Num: 66

Candidate Starts for Button_45:

(Start: 66 @30428 has 3 MA's), (103, 30281), (120, 30251), (154, 30164), (166, 30107), (176, 30062), (186, 30038), (188, 30032), (198, 29981), (216, 29927), (222, 29903), (232, 29876), (296, 29699), (300, 29684), (315, 29636), (343, 29546),

Gene: Buttrmlkdreams_43 Start: 30271, Stop: 29240, Start Num: 72

Candidate Starts for Buttrmlkdreams_43:

(20, 30400), (27, 30370), (Start: 44 @30316 has 2 MA's), (52, 30307), (Start: 72 @30271 has 30 MA's), (103, 30130), (154, 30013), (166, 29956), (186, 29887), (194, 29854), (216, 29776), (232, 29725), (300, 29530), (306, 29512), (311, 29494), (343, 29392),

Gene: CallieOMalley_41 Start: 27545, Stop: 28492, Start Num: 65

Candidate Starts for CallieOMalley_41:

(Start: 65 @27545 has 78 MA's), (103, 27689), (104, 27692), (107, 27707), (116, 27734), (142, 27797), (147, 27812), (157, 27860), (165, 27905), (168, 27917), (172, 27941), (201, 28067), (229, 28136), (231, 28139), (292, 28283), (313, 28343), (338, 28418), (339, 28421), (351, 28448), (352, 28451),

Gene: CanesSauce_40 Start: 29639, Stop: 28605, Start Num: 72

Candidate Starts for CanesSauce_40:

(Start: 72 @29639 has 30 MA's), (88, 29564), (132, 29444), (154, 29381), (176, 29279), (216, 29144), (280, 28964), (283, 28955), (300, 28898), (306, 28880), (311, 28862), (337, 28778),

Gene: Canowicakte_41 Start: 27580, Stop: 28527, Start Num: 65

Candidate Starts for Canowicakte_41:

(Start: 65 @27580 has 78 MA's), (103, 27724), (104, 27727), (107, 27742), (116, 27769), (142, 27832), (147, 27847), (157, 27895), (165, 27940), (168, 27952), (172, 27976), (201, 28102), (229, 28171), (231, 28174), (292, 28318), (313, 28378), (338, 28453), (339, 28456), (351, 28483), (352, 28486),

Gene: CaramellLatte_40 Start: 29639, Stop: 28605, Start Num: 72

Candidate Starts for CaramellLatte_40:

(Start: 72 @29639 has 30 MA's), (88, 29564), (132, 29444), (154, 29381), (176, 29279), (216, 29144), (280, 28964), (283, 28955), (300, 28898), (306, 28880), (311, 28862), (337, 28778),

Gene: CardboardBox_38 Start: 24528, Stop: 23596, Start Num: 69

Candidate Starts for CardboardBox_38:

(Start: 69 @24528 has 11 MA's), (107, 24369), (128, 24324), (168, 24162), (179, 24123), (204, 24021), (209, 24000), (220, 23973), (239, 23934), (262, 23874), (272, 23829), (287, 23772), (290, 23763), (292, 23760), (308, 23709), (311, 23700), (325, 23658), (330, 23646),

Gene: Carpal_41 Start: 27488, Stop: 28435, Start Num: 65

Candidate Starts for Carpal_41:

(Start: 65 @27488 has 78 MA's), (87, 27557), (100, 27620), (103, 27632), (104, 27635), (110, 27659), (147, 27755), (157, 27803), (163, 27833), (168, 27860), (185, 27932), (231, 28082), (236, 28091), (279, 28178), (292, 28226), (313, 28286), (338, 28361), (339, 28364), (351, 28391), (352, 28394),

Gene: Carsonalex_44 Start: 29819, Stop: 28788, Start Num: 72

Candidate Starts for Carsonalex_44:

(20, 29948), (27, 29918), (Start: 44 @29864 has 2 MA's), (52, 29855), (Start: 72 @29819 has 30 MA's), (103, 29678), (154, 29561), (166, 29504), (186, 29435), (194, 29402), (216, 29324), (232, 29273), (300, 29078), (306, 29060), (311, 29042), (337, 28958), (343, 28940),

Gene: Casserole_41 Start: 37883, Stop: 37047, Start Num: 56

Candidate Starts for Casserole_41:

(Start: 56 @37883 has 6 MA's), (Start: 66 @37862 has 3 MA's), (105, 37703), (123, 37664), (126, 37658), (133, 37646), (156, 37595), (167, 37547), (189, 37469), (205, 37406), (250, 37295), (261, 37259), (263, 37253), (312, 37112),

Gene: Cece_96 Start: 79474, Stop: 78539, Start Num: 61

Candidate Starts for Cece_96:

(Start: 61 @79474 has 6 MA's), (Start: 65 @79465 has 78 MA's), (87, 79390), (98, 79339), (115, 79279), (148, 79216), (152, 79189), (154, 79177), (171, 79093), (174, 79087), (175, 79084), (179, 79072), (186, 79048), (195, 78994), (210, 78940), (212, 78931), (213, 78928), (278, 78748), (279, 78745), (280, 78739), (290, 78700), (311, 78637), (312, 78634),

Gene: ChamoyPickle_39 Start: 25068, Stop: 24136, Start Num: 69

Candidate Starts for ChamoyPickle_39:

(Start: 69 @25068 has 11 MA's), (107, 24909), (128, 24864), (168, 24702), (179, 24663), (204, 24561), (209, 24540), (220, 24513), (239, 24474), (262, 24414), (272, 24369), (287, 24312), (290, 24303), (292, 24300), (308, 24249), (311, 24240), (325, 24198), (330, 24186),

Gene: CherryonLim_44 Start: 32388, Stop: 31330, Start Num: 64

Candidate Starts for CherryonLim_44:

(53, 32412), (Start: 64 @32388 has 11 MA's), (98, 32262), (103, 32235), (112, 32211), (124, 32178), (138, 32145), (154, 32100), (176, 31998), (198, 31917), (222, 31839), (230, 31815), (243, 31791), (247, 31779), (269, 31698), (296, 31629), (298, 31623), (300, 31614), (311, 31578), (316, 31563), (354, 31434), (357, 31422), (359, 31416), (361, 31401),

Gene: ChewChew_39 Start: 26335, Stop: 27285, Start Num: 65

Candidate Starts for ChewChew_39:

(Start: 65 @26335 has 78 MA's), (100, 26467), (103, 26479), (104, 26482), (110, 26506), (147, 26602), (157, 26650), (168, 26707), (172, 26731), (183, 26773), (185, 26779), (221, 26905), (229, 26929), (231, 26932), (236, 26941), (292, 27076), (313, 27136), (338, 27211), (351, 27241), (352, 27244),

Gene: ChickenTender_44 Start: 29703, Stop: 28672, Start Num: 72

Candidate Starts for ChickenTender_44:

(Start: 72 @29703 has 30 MA's), (Start: 76 @29691 has 1 MA's), (120, 29532), (154, 29445), (166, 29388), (186, 29319), (194, 29286), (216, 29208), (232, 29157), (283, 29019), (300, 28962), (306, 28944), (311, 28926), (337, 28842), (343, 28824),

Gene: Chilliams_102 Start: 76293, Stop: 77267, Start Num: 49

Candidate Starts for Chilliams_102:

(Start: 49 @76293 has 10 MA's), (63, 76317), (Start: 75 @76338 has 5 MA's), (97, 76437), (115, 76509), (154, 76626), (159, 76641), (182, 76746), (207, 76851), (210, 76866), (215, 76881), (262, 76998), (272, 77043), (279, 77064), (311, 77172), (321, 77202),

Gene: ChipsNGuac_37 Start: 24528, Stop: 23596, Start Num: 69

Candidate Starts for ChipsNGuac_37:

(Start: 69 @24528 has 11 MA's), (107, 24369), (128, 24324), (168, 24162), (179, 24123), (204, 24021), (209, 24000), (220, 23973), (239, 23934), (262, 23874), (272, 23829), (287, 23772), (290, 23763), (292, 23760), (308, 23709), (311, 23700), (325, 23658), (330, 23646),

Gene: ChocoMunchkin_40 Start: 29639, Stop: 28605, Start Num: 72

Candidate Starts for ChocoMunchkin_40:

(Start: 72 @29639 has 30 MA's), (88, 29564), (132, 29444), (154, 29381), (176, 29279), (216, 29144), (280, 28964), (283, 28955), (300, 28898), (306, 28880), (311, 28862), (337, 28778),

Gene: Cholula_41 Start: 27534, Stop: 28481, Start Num: 65

Candidate Starts for Cholula_41:

(Start: 65 @27534 has 78 MA's), (87, 27603), (100, 27666), (103, 27678), (104, 27681), (110, 27705), (147, 27801), (157, 27849), (163, 27879), (168, 27906), (185, 27978), (231, 28128), (236, 28137), (279, 28224), (292, 28272), (313, 28332), (338, 28407), (339, 28410), (351, 28437), (352, 28440),

Gene: Chridison_38 Start: 27433, Stop: 28383, Start Num: 70

Candidate Starts for Chridison_38:

(Start: 33 @27379 has 1 MA's), (Start: 70 @27433 has 23 MA's), (104, 27580), (108, 27598), (144, 27688), (154, 27739), (163, 27778), (165, 27793), (169, 27811), (183, 27871), (211, 27988), (229,

28027), (236, 28039), (279, 28126), (292, 28174), (313, 28234), (338, 28309), (339, 28312), (351, 28339), (352, 28342),

Gene: Christian_39 Start: 26331, Stop: 27281, Start Num: 65

Candidate Starts for Christian_39:

(Start: 65 @26331 has 78 MA's), (100, 26463), (103, 26475), (104, 26478), (110, 26502), (147, 26598), (157, 26646), (168, 26703), (172, 26727), (185, 26775), (221, 26901), (229, 26925), (231, 26928), (236, 26937), (292, 27072), (313, 27132), (338, 27207), (351, 27237), (352, 27240),

Gene: Cicada_44 Start: 27802, Stop: 28815, Start Num: 28

Candidate Starts for Cicada_44:

(Start: 28 @27802 has 22 MA's), (104, 28012), (129, 28081), (157, 28165), (168, 28222), (187, 28300), (201, 28369), (202, 28372), (233, 28447), (246, 28474), (286, 28579), (301, 28630), (317, 28678), (338, 28741),

Gene: Cleo_37 Start: 29247, Stop: 28195, Start Num: 55

Candidate Starts for Cleo_37:

(Start: 55 @29247 has 4 MA's), (Start: 70 @29217 has 23 MA's), (79, 29187), (103, 29073), (132, 29019), (151, 28977), (154, 28956), (176, 28854), (188, 28824), (207, 28749), (216, 28719), (222, 28695), (270, 28557), (306, 28458), (311, 28440), (314, 28434), (315, 28428), (333, 28371), (338, 28350),

Gene: CocoaPuff_43 Start: 31255, Stop: 30197, Start Num: 64

Candidate Starts for CocoaPuff_43:

(53, 31279), (Start: 64 @31255 has 11 MA's), (98, 31129), (103, 31102), (112, 31078), (124, 31045), (138, 31012), (154, 30967), (176, 30865), (198, 30784), (222, 30706), (243, 30658), (247, 30646), (269, 30565), (296, 30496), (298, 30490), (300, 30481), (311, 30445), (316, 30430), (343, 30343), (354, 30301), (357, 30289), (359, 30283), (361, 30268),

Gene: Cozz_39 Start: 29379, Stop: 28348, Start Num: 72

Candidate Starts for Cozz_39:

(Start: 68 @29385 has 2 MA's), (Start: 72 @29379 has 30 MA's), (120, 29208), (154, 29121), (166, 29064), (186, 28995), (194, 28962), (216, 28884), (232, 28833), (300, 28638), (306, 28620), (311, 28602), (337, 28518), (343, 28500),

Gene: Creature_84 Start: 60061, Stop: 61185, Start Num: 43

Candidate Starts for Creature_84:

(Start: 43 @60061 has 2 MA's), (74, 60118), (79, 60139), (88, 60187), (130, 60328), (154, 60394), (158, 60406), (166, 60451), (168, 60460), (176, 60502), (186, 60526), (188, 60532), (193, 60556), (222, 60661), (230, 60685), (245, 60715), (249, 60724), (311, 60943), (336, 61018), (350, 61051), (357, 61087), (367, 61153), (369, 61177),

Gene: CristinaYang_39 Start: 26331, Stop: 27281, Start Num: 65

Candidate Starts for CristinaYang_39:

(Start: 65 @26331 has 78 MA's), (100, 26463), (103, 26475), (104, 26478), (110, 26502), (147, 26598), (157, 26646), (168, 26703), (172, 26727), (183, 26769), (185, 26775), (221, 26901), (229, 26925), (231, 26928), (236, 26937), (292, 27072), (313, 27132), (338, 27207), (351, 27237), (352, 27240),

Gene: Crosby_51 Start: 35943, Stop: 36941, Start Num: 59

Candidate Starts for Crosby_51:

(6, 35706), (10, 35733), (12, 35784), (Start: 55 @35937 has 4 MA's), (Start: 59 @35943 has 11 MA's), (104, 36108), (110, 36132), (149, 36240), (154, 36273), (160, 36297), (171, 36357), (182, 36387), (184, 36393), (187, 36405), (188, 36408), (194, 36441), (202, 36477), (236, 36567), (267, 36663),

(293, 36735), (305, 36774), (358, 36918),

Gene: Daiboju_39 Start: 27511, Stop: 28464, Start Num: 70

Candidate Starts for Daiboju_39:

(Start: 70 @27511 has 23 MA's), (84, 27568), (104, 27658), (108, 27676), (144, 27766), (154, 27817), (163, 27856), (165, 27871), (169, 27889), (171, 27901), (183, 27949), (211, 28066), (229, 28105), (236, 28117), (313, 28315), (338, 28390), (351, 28420), (352, 28423),

Gene: Dino_42 Start: 27635, Stop: 28582, Start Num: 65

Candidate Starts for Dino_42:

(Start: 65 @27635 has 78 MA's), (100, 27767), (103, 27779), (104, 27782), (110, 27806), (147, 27902), (157, 27950), (163, 27980), (168, 28007), (185, 28079), (231, 28229), (236, 28238), (279, 28325), (292, 28373), (313, 28433), (338, 28508), (351, 28538), (352, 28541),

Gene: Djokovic_54 Start: 40486, Stop: 41631, Start Num: 71

Candidate Starts for Djokovic_54:

(Start: 38 @40426 has 4 MA's), (Start: 71 @40486 has 6 MA's), (74, 40495), (104, 40633), (114, 40657), (160, 40810), (166, 40843), (230, 41089), (232, 41092), (235, 41098), (243, 41113), (275, 41233), (288, 41281), (299, 41311), (300, 41317), (311, 41347), (322, 41380), (329, 41398), (331, 41404), (355, 41485), (361, 41515), (362, 41527), (370, 41590),

Gene: Dodo_115 Start: 77651, Stop: 76725, Start Num: 65

Candidate Starts for Dodo_115:

(Start: 61 @77660 has 6 MA's), (Start: 65 @77651 has 78 MA's), (94, 77543), (121, 77453), (148, 77402), (152, 77375), (154, 77363), (171, 77279), (174, 77273), (186, 77234), (212, 77117), (234, 77066), (278, 76934), (279, 76931), (280, 76925), (290, 76886), (312, 76820), (321, 76793),

Gene: DrRobert_38 Start: 26111, Stop: 27061, Start Num: 65

Candidate Starts for DrRobert_38:

(Start: 65 @26111 has 78 MA's), (87, 26180), (100, 26243), (103, 26255), (104, 26258), (107, 26273), (108, 26276), (110, 26282), (147, 26378), (157, 26426), (160, 26441), (168, 26483), (172, 26507), (181, 26543), (183, 26549), (185, 26555), (221, 26681), (229, 26705), (231, 26708), (236, 26717), (292, 26852), (313, 26912), (338, 26987), (339, 26990), (351, 27017), (352, 27020),

Gene: Dre3_37 Start: 28990, Stop: 27938, Start Num: 55

Candidate Starts for Dre3_37:

(Start: 55 @28990 has 4 MA's), (Start: 65 @28969 has 78 MA's), (Start: 70 @28960 has 23 MA's), (79, 28930), (103, 28816), (132, 28762), (151, 28720), (154, 28699), (176, 28597), (188, 28567), (207, 28492), (216, 28462), (222, 28438), (270, 28300), (306, 28201), (311, 28183), (314, 28177), (315, 28171), (333, 28114), (338, 28093),

Gene: DreamTeam_39 Start: 26441, Stop: 27388, Start Num: 65

Candidate Starts for DreamTeam_39:

(Start: 65 @26441 has 78 MA's), (87, 26510), (100, 26573), (103, 26585), (104, 26588), (110, 26612), (147, 26708), (157, 26756), (168, 26813), (171, 26831), (181, 26873), (185, 26885), (292, 27179), (313, 27239), (338, 27314), (339, 27317), (351, 27344), (352, 27347),

Gene: DunneganBoMo_92 Start: 79281, Stop: 80207, Start Num: 75

Candidate Starts for DunneganBoMo_92:

(63, 79260), (Start: 75 @79281 has 5 MA's), (90, 79356), (99, 79395), (154, 79569), (159, 79584), (172, 79659), (181, 79686), (182, 79689), (188, 79710), (199, 79773), (207, 79794), (210, 79809), (213, 79821), (272, 79986), (279, 80007), (308, 80106), (311, 80115), (321, 80145),

Gene: ElJefes_44 Start: 31755, Stop: 30697, Start Num: 70

Candidate Starts for ElJefes_44:

(Start: 70 @31755 has 23 MA's), (98, 31638), (103, 31611), (112, 31587), (124, 31554), (138, 31521), (154, 31476), (176, 31374), (198, 31293), (222, 31215), (230, 31191), (243, 31167), (247, 31155), (269, 31074), (296, 31005), (298, 30999), (300, 30990), (311, 30954), (316, 30939), (354, 30810), (357, 30798), (359, 30792), (361, 30777),

Gene: Elinal_46 Start: 31626, Stop: 30580, Start Num: 71

Candidate Starts for Elinal_46:

(Start: 56 @31656 has 6 MA's), (Start: 67 @31632 has 1 MA's), (Start: 71 @31626 has 6 MA's), (112, 31461), (120, 31437), (124, 31428), (138, 31395), (154, 31350), (176, 31248), (198, 31167), (222, 31089), (243, 31041), (269, 30948), (285, 30912), (296, 30879), (298, 30873), (300, 30864), (304, 30849), (311, 30828), (316, 30813), (354, 30684), (357, 30672), (359, 30666), (361, 30651),

Gene: Eliott_41 Start: 29790, Stop: 28759, Start Num: 72

Candidate Starts for Eliott_41:

(Start: 72 @29790 has 30 MA's), (120, 29619), (154, 29532), (166, 29475), (186, 29406), (194, 29373), (216, 29295), (232, 29244), (300, 29049), (306, 29031), (311, 29013), (337, 28929), (343, 28911),

Gene: Ellewin_91 Start: 78692, Stop: 79618, Start Num: 75

Candidate Starts for Ellewin_91:

(63, 78671), (Start: 75 @78692 has 5 MA's), (90, 78767), (99, 78806), (154, 78980), (159, 78995), (172, 79070), (181, 79097), (182, 79100), (188, 79121), (199, 79184), (207, 79205), (210, 79220), (213, 79232), (272, 79397), (279, 79418), (308, 79517), (311, 79526), (321, 79556),

Gene: Emalyn_41 Start: 29228, Stop: 28200, Start Num: 72

Candidate Starts for Emalyn_41:

(Start: 72 @29228 has 30 MA's), (132, 29033), (154, 28970), (176, 28868), (186, 28844), (198, 28787), (216, 28733), (232, 28682), (280, 28553), (283, 28544), (300, 28487), (306, 28469), (311, 28451), (337, 28367),

Gene: Emmetator_95 Start: 79350, Stop: 80162, Start Num: 99

Candidate Starts for Emmetator_95:

(Start: 49 @79191 has 10 MA's), (63, 79215), (Start: 75 @79236 has 5 MA's), (90, 79311), (99, 79350), (154, 79524), (159, 79539), (160, 79548), (172, 79614), (181, 79641), (182, 79644), (188, 79665), (199, 79728), (207, 79749), (210, 79764), (213, 79776), (272, 79941), (279, 79962), (308, 80061), (311, 80070), (321, 80100),

Gene: Erasmago_104 Start: 74119, Stop: 73184, Start Num: 61

Candidate Starts for Erasmago_104:

(Start: 61 @74119 has 6 MA's), (94, 74002), (101, 73966), (121, 73912), (148, 73861), (152, 73834), (154, 73822), (171, 73738), (174, 73732), (179, 73717), (186, 73693), (195, 73639), (212, 73576), (278, 73393), (279, 73390), (290, 73345), (312, 73279), (321, 73252),

Gene: EstebanJulior_40 Start: 27489, Stop: 28439, Start Num: 65

Candidate Starts for EstebanJulior_40:

(Start: 65 @27489 has 78 MA's), (100, 27621), (104, 27636), (107, 27651), (110, 27660), (147, 27756), (157, 27804), (160, 27819), (168, 27861), (172, 27885), (185, 27933), (187, 27942), (221, 28059), (231, 28086), (236, 28095), (313, 28290), (317, 28302), (338, 28365), (339, 28368), (351, 28395), (352, 28398),

Gene: Eunoia_39 Start: 27504, Stop: 28451, Start Num: 70

Candidate Starts for Eunoia_39:

(Start: 70 @27504 has 23 MA's), (86, 27570), (108, 27669), (116, 27693), (144, 27759), (154, 27807), (160, 27831), (165, 27861), (169, 27879), (171, 27891), (181, 27933), (221, 28071), (229, 28092), (231, 28095), (313, 28302), (338, 28377), (339, 28380), (351, 28407), (352, 28410),

Gene: Ezurina_36 Start: 25615, Stop: 24653, Start Num: 69

Candidate Starts for Ezurina_36:

(Start: 69 @25615 has 11 MA's), (107, 25456), (124, 25420), (168, 25249), (179, 25180), (180, 25177), (192, 25123), (204, 25078), (209, 25057), (239, 24991), (262, 24931), (272, 24886), (273, 24883), (287, 24829), (290, 24820), (292, 24817), (308, 24766), (311, 24757), (325, 24715), (330, 24703),

Gene: FF47_42 Start: 31849, Stop: 30833, Start Num: 65

Candidate Starts for FF47_42:

(Start: 65 @31849 has 78 MA's), (89, 31756), (90, 31753), (118, 31666), (154, 31579), (166, 31522), (169, 31507), (186, 31453), (243, 31270), (300, 31099), (304, 31084), (311, 31063), (353, 30937), (362, 30886), (366, 30865),

Gene: Feastonyeet_42 Start: 31250, Stop: 30192, Start Num: 64

Candidate Starts for Feastonyeet_42:

(53, 31274), (Start: 64 @31250 has 11 MA's), (98, 31124), (103, 31097), (112, 31073), (124, 31040), (138, 31007), (154, 30962), (176, 30860), (198, 30779), (222, 30701), (243, 30653), (247, 30641), (269, 30560), (285, 30524), (296, 30491), (298, 30485), (300, 30476), (304, 30461), (311, 30440), (316, 30425), (354, 30296), (357, 30284), (359, 30278), (361, 30263),

Gene: FireCastle_42 Start: 27533, Stop: 28546, Start Num: 28

Candidate Starts for FireCastle_42:

(Start: 28 @27533 has 22 MA's), (Start: 78 @27614 has 3 MA's), (103, 27740), (104, 27743), (129, 27812), (139, 27836), (157, 27896), (160, 27911), (168, 27953), (187, 28031), (201, 28100), (202, 28103), (207, 28115), (226, 28169), (246, 28205), (250, 28211), (282, 28295), (286, 28310), (301, 28361), (317, 28409), (332, 28457), (338, 28472),

Gene: FloraSnap32_103 Start: 82392, Stop: 83363, Start Num: 49

Candidate Starts for FloraSnap32_103:

(Start: 49 @82392 has 10 MA's), (63, 82416), (Start: 75 @82437 has 5 MA's), (97, 82536), (99, 82551), (104, 82575), (115, 82608), (154, 82725), (159, 82740), (179, 82836), (182, 82845), (207, 82950), (210, 82965), (212, 82974), (244, 83049), (258, 83091), (272, 83142), (279, 83163), (308, 83262), (311, 83271), (321, 83301),

Gene: Fluke_42 Start: 27751, Stop: 28698, Start Num: 65

Candidate Starts for Fluke_42:

(Start: 65 @27751 has 78 MA's), (87, 27820), (100, 27883), (103, 27895), (104, 27898), (110, 27922), (147, 28018), (157, 28066), (163, 28096), (168, 28123), (185, 28195), (231, 28345), (236, 28354), (279, 28441), (292, 28489), (313, 28549), (338, 28624), (339, 28627), (351, 28654), (352, 28657),

Gene: Forza_168 Start: 94503, Stop: 93511, Start Num: 47

Candidate Starts for Forza_168:

(35, 94527), (Start: 47 @94503 has 4 MA's), (86, 94401), (101, 94329), (154, 94176), (172, 94086), (196, 93978), (200, 93969), (209, 93939), (210, 93936), (212, 93927), (227, 93882), (239, 93858), (266, 93777), (271, 93756), (284, 93714), (311, 93627), (312, 93624), (321, 93597), (342, 93534), (344, 93531),

Gene: Fribs8_38 Start: 29408, Stop: 28377, Start Num: 65

Candidate Starts for Fribs8_38:

(Start: 65 @29408 has 78 MA's), (79, 29369), (89, 29315), (90, 29312), (103, 29255), (120, 29225), (151, 29159), (154, 29138), (176, 29036), (188, 29006), (191, 28988), (207, 28931), (216, 28901), (275, 28736), (300, 28658), (306, 28640), (311, 28622), (315, 28610), (316, 28607), (338, 28532),

Gene: Frizzle_31 Start: 30097, Stop: 29171, Start Num: 78

Candidate Starts for Frizzle_31:

(Start: 25 @30205 has 1 MA's), (Start: 75 @30103 has 5 MA's), (Start: 76 @30100 has 1 MA's), (Start: 78 @30097 has 3 MA's), (95, 30010), (116, 29926), (119, 29920), (134, 29893), (172, 29746), (178, 29725), (179, 29719), (185, 29701), (187, 29692), (205, 29614), (207, 29608), (224, 29566), (229, 29554), (276, 29503), (279, 29497), (345, 29308), (363, 29227), (364, 29224), (368, 29185),

Gene: FrostedClock_106 Start: 83692, Stop: 84663, Start Num: 49

Candidate Starts for FrostedClock_106:

(Start: 49 @83692 has 10 MA's), (63, 83716), (Start: 75 @83737 has 5 MA's), (97, 83836), (99, 83851), (104, 83875), (115, 83908), (154, 84025), (159, 84040), (179, 84136), (182, 84145), (207, 84250), (210, 84265), (212, 84274), (244, 84349), (258, 84391), (272, 84442), (279, 84463), (311, 84571), (321, 84601),

Gene: GMA2_62 Start: 65413, Stop: 64418, Start Num: 44

Candidate Starts for GMA2_62:

(Start: 44 @65413 has 2 MA's), (87, 65302), (96, 65263), (113, 65191), (154, 65080), (179, 64966), (186, 64942), (190, 64915), (193, 64906), (196, 64879), (210, 64837), (212, 64828), (239, 64762), (258, 64708), (262, 64702), (272, 64657), (281, 64627), (283, 64621), (289, 64594), (311, 64531), (312, 64528), (321, 64501), (326, 64483), (342, 64438),

Gene: GTE2_33 Start: 29525, Stop: 28416, Start Num: 33

Candidate Starts for GTE2_33:

(13, 29624), (15, 29618), (Start: 33 @29525 has 1 MA's), (54, 29486), (Start: 72 @29450 has 30 MA's), (88, 29375), (132, 29255), (154, 29192), (176, 29090), (187, 29063), (216, 28955), (232, 28904), (253, 28853), (280, 28775), (283, 28766), (300, 28709), (306, 28691), (311, 28673), (337, 28589),

Gene: Galactica_39 Start: 28326, Stop: 29291, Start Num: 48

Candidate Starts for Galactica_39:

(Start: 48 @28326 has 2 MA's), (100, 28488), (131, 28563), (155, 28626), (157, 28632), (183, 28755), (187, 28770), (188, 28773), (191, 28797), (211, 28872), (229, 28908), (277, 29025), (287, 29064), (307, 29127),

Gene: GalaxyEater_42 Start: 38493, Stop: 37585, Start Num: 40

Candidate Starts for GalaxyEater_42:

(40, 38493), (Start: 44 @38481 has 2 MA's), (85, 38382), (92, 38349), (98, 38325), (106, 38283), (112, 38274), (143, 38196), (153, 38175), (159, 38154), (162, 38136), (164, 38124), (172, 38079), (183, 38037), (248, 37848), (312, 37656), (320, 37632),

Gene: Gerri43_37 Start: 24528, Stop: 23596, Start Num: 69

Candidate Starts for Gerri43_37:

(Start: 69 @24528 has 11 MA's), (107, 24369), (128, 24324), (168, 24162), (179, 24123), (204, 24021), (209, 24000), (220, 23973), (239, 23934), (262, 23874), (272, 23829), (287, 23772), (290, 23763), (292, 23760), (308, 23709), (311, 23700), (325, 23658), (330, 23646),

Gene: Ghobes_32 Start: 30098, Stop: 29172, Start Num: 78

Candidate Starts for Ghobes_32:

(Start: 25 @30206 has 1 MA's), (Start: 75 @30104 has 5 MA's), (Start: 76 @30101 has 1 MA's), (Start: 78 @30098 has 3 MA's), (95, 30011), (116, 29927), (119, 29921), (134, 29894), (172, 29747), (178,

29726), (179, 29720), (185, 29702), (205, 29615), (207, 29609), (224, 29567), (229, 29555), (276, 29504), (279, 29498), (345, 29309), (363, 29228), (364, 29225), (368, 29186),

Gene: GiKK_47 Start: 30758, Stop: 29736, Start Num: 66

Candidate Starts for GiKK_47:

(Start: 66 @30758 has 3 MA's), (103, 30611), (120, 30581), (154, 30494), (166, 30437), (170, 30416), (176, 30392), (186, 30368), (188, 30362), (198, 30311), (216, 30257), (222, 30233), (232, 30206), (296, 30029), (300, 30014), (315, 29966), (343, 29876),

Gene: Gibbous_37 Start: 28990, Stop: 27938, Start Num: 55

Candidate Starts for Gibbous_37:

(Start: 55 @28990 has 4 MA's), (Start: 65 @28969 has 78 MA's), (Start: 70 @28960 has 23 MA's), (79, 28930), (103, 28816), (132, 28762), (151, 28720), (154, 28699), (176, 28597), (188, 28567), (207, 28492), (216, 28462), (222, 28438), (270, 28300), (306, 28201), (311, 28183), (314, 28177), (315, 28171), (333, 28114), (338, 28093),

Gene: Gisselle_39 Start: 26441, Stop: 27388, Start Num: 65

Candidate Starts for Gisselle_39:

(Start: 65 @26441 has 78 MA's), (87, 26510), (100, 26573), (103, 26585), (104, 26588), (110, 26612), (147, 26708), (157, 26756), (168, 26813), (171, 26831), (181, 26873), (185, 26885), (292, 27179), (313, 27239), (338, 27314), (339, 27317), (351, 27344), (352, 27347),

Gene: Glenn_42 Start: 27742, Stop: 28689, Start Num: 65

Candidate Starts for Glenn_42:

(Start: 65 @27742 has 78 MA's), (100, 27874), (103, 27886), (104, 27889), (110, 27913), (147, 28009), (157, 28057), (163, 28087), (168, 28114), (185, 28186), (231, 28336), (236, 28345), (279, 28432), (292, 28480), (313, 28540), (338, 28615), (339, 28618), (351, 28645), (352, 28648),

Gene: GodonK_181 Start: 91029, Stop: 90010, Start Num: 39

Candidate Starts for GodonK_181:

(Start: 39 @91029 has 2 MA's), (Start: 78 @90957 has 3 MA's), (81, 90936), (90, 90888), (96, 90867), (113, 90795), (146, 90732), (152, 90696), (154, 90684), (159, 90669), (194, 90510), (200, 90477), (203, 90468), (212, 90435), (215, 90429), (228, 90390), (238, 90372), (239, 90369), (266, 90288), (271, 90267), (279, 90243), (289, 90201), (311, 90138), (312, 90135), (321, 90108), (326, 90090),

Gene: GoldHunter_41 Start: 29791, Stop: 28760, Start Num: 72

Candidate Starts for GoldHunter_41:

(Start: 72 @29791 has 30 MA's), (120, 29620), (154, 29533), (166, 29476), (186, 29407), (194, 29374), (216, 29296), (232, 29245), (300, 29050), (306, 29032), (311, 29014), (337, 28930), (343, 28912),

Gene: GoldenEssence_89 Start: 77287, Stop: 78258, Start Num: 49

Candidate Starts for GoldenEssence_89:

(Start: 49 @77287 has 10 MA's), (63, 77311), (Start: 75 @77332 has 5 MA's), (97, 77431), (99, 77446), (104, 77470), (115, 77503), (154, 77620), (159, 77635), (179, 77731), (182, 77740), (207, 77845), (210, 77860), (212, 77869), (244, 77944), (258, 77986), (272, 78037), (279, 78058), (308, 78157), (311, 78166), (321, 78196),

Gene: Goodman_43 Start: 27572, Stop: 28585, Start Num: 28

Candidate Starts for Goodman_43:

(18, 27527), (Start: 28 @27572 has 22 MA's), (86, 27701), (104, 27782), (129, 27851), (157, 27935), (168, 27992), (187, 28070), (201, 28139), (202, 28142), (233, 28217), (246, 28244), (250, 28250), (282, 28334), (286, 28349), (301, 28400), (317, 28448), (338, 28511),

Gene: Graynor_44 Start: 27566, Stop: 28513, Start Num: 65

Candidate Starts for Graynor_44:

(Start: 65 @27566 has 78 MA's), (103, 27710), (104, 27713), (107, 27728), (116, 27755), (142, 27818), (147, 27833), (157, 27881), (165, 27926), (168, 27938), (172, 27962), (201, 28088), (205, 28097), (229, 28157), (231, 28160), (292, 28304), (313, 28364), (338, 28439), (339, 28442), (351, 28469), (352, 28472),

Gene: GreenHearts_42 Start: 28250, Stop: 29197, Start Num: 65

Candidate Starts for GreenHearts_42:

(Start: 65 @28250 has 78 MA's), (104, 28397), (116, 28439), (141, 28499), (146, 28514), (163, 28595), (165, 28610), (168, 28622), (201, 28772), (229, 28841), (231, 28844), (323, 29078), (338, 29123), (339, 29126), (351, 29153), (352, 29156),

Gene: Greenhouse_43 Start: 28175, Stop: 29122, Start Num: 65

Candidate Starts for Greenhouse_43:

(Start: 65 @28175 has 78 MA's), (104, 28322), (116, 28364), (146, 28439), (163, 28520), (165, 28535), (168, 28547), (201, 28697), (229, 28766), (231, 28769), (323, 29003), (338, 29048), (339, 29051), (351, 29078), (352, 29081),

Gene: GurgleFerb_42 Start: 36941, Stop: 36105, Start Num: 56

Candidate Starts for GurgleFerb_42:

(Start: 56 @36941 has 6 MA's), (Start: 66 @36920 has 3 MA's), (105, 36761), (123, 36722), (126, 36716), (133, 36704), (156, 36653), (162, 36632), (167, 36605), (189, 36527), (250, 36353), (261, 36317), (312, 36170),

Gene: HeadNerd_39 Start: 26287, Stop: 27234, Start Num: 65

Candidate Starts for HeadNerd_39:

(Start: 65 @26287 has 78 MA's), (100, 26419), (103, 26431), (104, 26434), (110, 26458), (147, 26554), (157, 26602), (168, 26659), (185, 26731), (231, 26881), (236, 26890), (313, 27085), (338, 27160), (339, 27163), (351, 27190), (352, 27193),

Gene: Henoccus_51 Start: 35844, Stop: 36851, Start Num: 59

Candidate Starts for Henoccus_51:

(6, 35607), (22, 35757), (Start: 59 @35844 has 11 MA's), (104, 36009), (112, 36039), (122, 36075), (149, 36150), (154, 36183), (160, 36207), (171, 36267), (182, 36297), (187, 36315), (188, 36318), (194, 36351), (202, 36387), (236, 36477), (267, 36573), (301, 36672), (305, 36684), (351, 36795), (358, 36828),

Gene: Herb_39 Start: 27510, Stop: 28463, Start Num: 70

Candidate Starts for Herb_39:

(Start: 70 @27510 has 23 MA's), (84, 27567), (104, 27657), (108, 27675), (144, 27765), (154, 27816), (163, 27855), (165, 27870), (169, 27888), (171, 27900), (183, 27948), (211, 28065), (229, 28104), (236, 28116), (313, 28314), (338, 28389), (351, 28419), (352, 28422),

Gene: Hexbug_49 Start: 32527, Stop: 31505, Start Num: 70

Candidate Starts for Hexbug_49:

(19, 32659), (42, 32575), (51, 32563), (Start: 70 @32527 has 23 MA's), (103, 32383), (120, 32353), (132, 32329), (154, 32266), (166, 32209), (186, 32140), (188, 32134), (191, 32116), (198, 32083), (216, 32029), (222, 32005), (232, 31978), (260, 31909), (270, 31864), (280, 31849), (286, 31828), (294, 31801), (296, 31798), (300, 31783), (315, 31735), (321, 31717), (361, 31570),

Gene: HippoPololi_39 Start: 29421, Stop: 28390, Start Num: 65

Candidate Starts for HippoPololi_39:

(Start: 65 @29421 has 78 MA's), (79, 29382), (103, 29268), (132, 29214), (151, 29172), (154, 29151), (176, 29049), (188, 29019), (265, 28779), (275, 28749), (296, 28686), (306, 28653), (311, 28635), (315, 28623),

Gene: Hiyaa_41 Start: 29720, Stop: 30685, Start Num: 50

Candidate Starts for Hiyaa_41:

(Start: 50 @29720 has 3 MA's), (80, 29783), (100, 29882), (109, 29918), (131, 29957), (155, 30020), (157, 30026), (183, 30149), (188, 30167), (191, 30191), (229, 30302), (277, 30419), (287, 30458), (307, 30521),

Gene: Horseradish_43 Start: 29685, Stop: 28657, Start Num: 72

Candidate Starts for Horseradish_43:

(13, 29859), (20, 29814), (Start: 72 @29685 has 30 MA's), (132, 29490), (154, 29427), (186, 29301), (198, 29244), (216, 29190), (232, 29139), (280, 29010), (283, 29001), (286, 28989), (300, 28944), (306, 28926), (311, 28908), (343, 28806), (361, 28731),

Gene: Htur_43 Start: 27973, Stop: 28986, Start Num: 28

Candidate Starts for Htur_43:

(Start: 28 @27973 has 22 MA's), (104, 28183), (129, 28252), (157, 28336), (169, 28399), (187, 28471), (188, 28474), (201, 28540), (202, 28543), (246, 28645), (250, 28651), (282, 28735), (286, 28750), (301, 28801), (317, 28849), (338, 28912),

Gene: Huckleberry_39 Start: 26270, Stop: 27217, Start Num: 65

Candidate Starts for Huckleberry_39:

(Start: 65 @26270 has 78 MA's), (100, 26402), (103, 26414), (104, 26417), (110, 26441), (147, 26537), (157, 26585), (168, 26642), (185, 26714), (187, 26723), (231, 26864), (236, 26873), (279, 26960), (313, 27068), (338, 27143), (339, 27146), (351, 27173), (352, 27176),

Gene: HunterDalle_39 Start: 27432, Stop: 28382, Start Num: 70

Candidate Starts for HunterDalle_39:

(Start: 33 @27378 has 1 MA's), (Start: 70 @27432 has 23 MA's), (104, 27579), (108, 27597), (144, 27687), (154, 27738), (163, 27777), (165, 27792), (169, 27810), (171, 27822), (183, 27870), (211, 27987), (229, 28026), (236, 28038), (279, 28125), (292, 28173), (313, 28233), (338, 28308), (339, 28311), (351, 28338), (352, 28341),

Gene: Huntingdon_41 Start: 27893, Stop: 28828, Start Num: 65

Candidate Starts for Huntingdon_41:

(Start: 65 @27893 has 78 MA's), (104, 28040), (108, 28058), (116, 28082), (146, 28157), (157, 28208), (163, 28238), (165, 28253), (168, 28265), (201, 28415), (229, 28484), (231, 28487), (286, 28598), (338, 28754), (339, 28757), (351, 28784), (352, 28787),

Gene: Huwbert_79 Start: 48394, Stop: 49503, Start Num: 34

Candidate Starts for Huwbert_79:

(16, 48307), (21, 48334), (Start: 34 @48394 has 2 MA's), (Start: 50 @48424 has 3 MA's), (79, 48490), (84, 48517), (138, 48673), (152, 48706), (158, 48730), (193, 48871), (222, 48976), (311, 49252), (315, 49264), (316, 49267), (318, 49270), (319, 49273), (326, 49297), (340, 49336), (357, 49399), (360, 49411),

Gene: Immaculata_41 Start: 27533, Stop: 28480, Start Num: 65

Candidate Starts for Immaculata_41:

(Start: 65 @27533 has 78 MA's), (87, 27602), (100, 27665), (103, 27677), (104, 27680), (110, 27704), (147, 27800), (157, 27848), (163, 27878), (168, 27905), (185, 27977), (231, 28127), (236, 28136), (279, 28223), (292, 28271), (313, 28331), (338, 28406), (339, 28409), (351, 28436), (352, 28439),

Gene: IndiRoo_43 Start: 26273, Stop: 27280, Start Num: 28

Candidate Starts for IndiRoo_43:

(Start: 28 @26273 has 22 MA's), (104, 26483), (157, 26630), (202, 26837), (233, 26912), (246, 26939), (250, 26945), (282, 27029), (286, 27044), (338, 27206),

Gene: Intolerant_48 Start: 35879, Stop: 36877, Start Num: 59

Candidate Starts for Intolerant_48:

(3, 35486), (6, 35642), (12, 35720), (Start: 55 @35873 has 4 MA's), (Start: 59 @35879 has 11 MA's), (104, 36044), (110, 36068), (149, 36176), (154, 36209), (160, 36233), (171, 36293), (182, 36323), (184, 36329), (187, 36341), (188, 36344), (194, 36377), (202, 36413), (236, 36503), (267, 36599), (301, 36698), (305, 36710), (358, 36854),

Gene: JackieB_51 Start: 35683, Stop: 36690, Start Num: 59

Candidate Starts for JackieB_51:

(6, 35446), (22, 35596), (Start: 59 @35683 has 11 MA's), (104, 35848), (112, 35878), (122, 35914), (149, 35989), (154, 36022), (160, 36046), (171, 36106), (182, 36136), (187, 36154), (188, 36157), (194, 36190), (202, 36226), (236, 36316), (267, 36412), (301, 36511), (305, 36523), (338, 36601), (351, 36634), (358, 36667),

Gene: JacoRen57_39 Start: 32689, Stop: 31700, Start Num: 83

Candidate Starts for JacoRen57_39:

(Start: 72 @32731 has 30 MA's), (Start: 76 @32719 has 1 MA's), (Start: 83 @32689 has 1 MA's), (112, 32566), (120, 32542), (138, 32500), (145, 32479), (154, 32455), (168, 32389), (169, 32383), (176, 32353), (186, 32329), (188, 32323), (191, 32305), (194, 32296), (201, 32263), (211, 32230), (230, 32170), (243, 32146), (247, 32134), (251, 32122), (265, 32083), (306, 31951), (311, 31933),

Gene: Jamzy_47 Start: 30741, Stop: 29719, Start Num: 66

Candidate Starts for Jamzy_47:

(Start: 66 @30741 has 3 MA's), (103, 30594), (120, 30564), (154, 30477), (166, 30420), (176, 30375), (186, 30351), (188, 30345), (198, 30294), (216, 30240), (222, 30216), (232, 30189), (296, 30012), (300, 29997), (315, 29949), (343, 29859),

Gene: Jasmine_44 Start: 38561, Stop: 37725, Start Num: 56

Candidate Starts for Jasmine_44:

(Start: 56 @38561 has 6 MA's), (Start: 66 @38540 has 3 MA's), (105, 38381), (123, 38342), (126, 38336), (133, 38324), (156, 38273), (167, 38225), (194, 38126), (242, 37991), (250, 37973), (252, 37964), (259, 37943), (312, 37790),

Gene: Jera_43 Start: 26765, Stop: 27778, Start Num: 28

Candidate Starts for Jera_43:

(Start: 28 @26765 has 22 MA's), (86, 26894), (104, 26975), (129, 27044), (157, 27128), (173, 27212), (187, 27263), (201, 27332), (202, 27335), (246, 27437), (250, 27443), (282, 27527), (286, 27542), (317, 27641), (338, 27704),

Gene: Joann_42 Start: 28143, Stop: 29078, Start Num: 65

Candidate Starts for Joann_42:

(Start: 65 @28143 has 78 MA's), (104, 28290), (108, 28308), (116, 28332), (146, 28407), (163, 28488), (165, 28503), (168, 28515), (229, 28734), (231, 28737), (313, 28929), (323, 28959), (338, 29004), (339, 29007), (351, 29034), (352, 29037),

Gene: Johann_43 Start: 27572, Stop: 28585, Start Num: 28

Candidate Starts for Johann_43:

(18, 27527), (Start: 28 @27572 has 22 MA's), (86, 27701), (104, 27782), (129, 27851), (157, 27935), (168, 27992), (187, 28070), (201, 28139), (202, 28142), (233, 28217), (246, 28244), (250, 28250), (282, 28334), (286, 28349), (301, 28400), (317, 28448), (338, 28511),

Gene: Jumboset_42 Start: 27650, Stop: 28597, Start Num: 65

Candidate Starts for Jumboset_42:

(Start: 65 @27650 has 78 MA's), (100, 27782), (103, 27794), (104, 27797), (110, 27821), (147, 27917), (157, 27965), (163, 27995), (168, 28022), (185, 28094), (231, 28244), (236, 28253), (279, 28340), (292, 28388), (313, 28448), (338, 28523), (339, 28526), (351, 28553), (352, 28556),

Gene: KSunshine22_97 Start: 80248, Stop: 81219, Start Num: 49

Candidate Starts for KSunshine22_97:

(Start: 49 @80248 has 10 MA's), (63, 80272), (Start: 75 @80293 has 5 MA's), (90, 80368), (99, 80407), (154, 80581), (159, 80596), (172, 80671), (181, 80698), (182, 80701), (188, 80722), (199, 80785), (207, 80806), (210, 80821), (213, 80833), (272, 80998), (279, 81019), (308, 81118), (311, 81127), (321, 81157),

Gene: Kalizoi_41 Start: 27475, Stop: 28422, Start Num: 65

Candidate Starts for Kalizoi_41:

(Start: 65 @27475 has 78 MA's), (87, 27544), (100, 27607), (103, 27619), (104, 27622), (110, 27646), (147, 27742), (157, 27790), (163, 27820), (168, 27847), (185, 27919), (231, 28069), (236, 28078), (279, 28165), (292, 28213), (313, 28273), (338, 28348), (339, 28351), (351, 28378), (352, 28381),

Gene: KayGee_44 Start: 31626, Stop: 30580, Start Num: 71

Candidate Starts for KayGee_44:

(Start: 56 @31656 has 6 MA's), (Start: 67 @31632 has 1 MA's), (Start: 71 @31626 has 6 MA's), (112, 31461), (120, 31437), (124, 31428), (138, 31395), (154, 31350), (176, 31248), (198, 31167), (222, 31089), (243, 31041), (269, 30948), (285, 30912), (296, 30879), (298, 30873), (300, 30864), (304, 30849), (311, 30828), (316, 30813), (354, 30684), (357, 30672), (359, 30666), (361, 30651),

Gene: Keanu_40 Start: 29418, Stop: 30383, Start Num: 48

Candidate Starts for Keanu_40:

(Start: 48 @29418 has 2 MA's), (100, 29580), (109, 29616), (110, 29619), (131, 29655), (155, 29718), (157, 29724), (183, 29847), (188, 29865), (191, 29889), (197, 29919), (224, 29988), (229, 30000), (255, 30060), (277, 30117), (287, 30156), (307, 30219),

Gene: KimJongPhill_82 Start: 60719, Stop: 61843, Start Num: 43

Candidate Starts for KimJongPhill_82:

(4, 60410), (5, 60458), (17, 60635), (Start: 43 @60719 has 2 MA's), (79, 60797), (84, 60824), (93, 60866), (130, 60986), (154, 61052), (158, 61064), (166, 61109), (168, 61118), (176, 61160), (186, 61184), (188, 61190), (193, 61214), (222, 61319), (241, 61364), (245, 61373), (266, 61451), (296, 61550), (311, 61601), (328, 61649), (336, 61676), (350, 61709), (357, 61745), (367, 61811), (369, 61835),

Gene: KingBob_39 Start: 27511, Stop: 28464, Start Num: 70

Candidate Starts for KingBob_39:

(Start: 70 @27511 has 23 MA's), (84, 27568), (104, 27658), (108, 27676), (144, 27766), (154, 27817), (163, 27856), (165, 27871), (169, 27889), (171, 27901), (183, 27949), (211, 28066), (229, 28105), (236, 28117), (313, 28315), (338, 28390), (351, 28420), (352, 28423),

Gene: Kittykat_40 Start: 26532, Stop: 27479, Start Num: 65

Candidate Starts for Kittykat_40:

(Start: 65 @26532 has 78 MA's), (87, 26601), (100, 26664), (103, 26676), (104, 26679), (110, 26703), (147, 26799), (157, 26847), (168, 26904), (185, 26976), (292, 27270), (313, 27330), (338, 27405), (339, 27408), (351, 27435), (352, 27438),

Gene: Kokushibo_41 Start: 29670, Stop: 30635, Start Num: 50

Candidate Starts for Kokushibo_41:

(Start: 50 @29670 has 3 MA's), (80, 29733), (100, 29832), (109, 29868), (131, 29907), (155, 29970), (157, 29976), (183, 30099), (188, 30117), (191, 30141), (198, 30174), (229, 30252), (277, 30369), (287, 30408), (307, 30471),

Gene: Korra_41 Start: 27487, Stop: 28434, Start Num: 65

Candidate Starts for Korra_41:

(Start: 65 @27487 has 78 MA's), (100, 27619), (103, 27631), (104, 27634), (110, 27658), (147, 27754), (157, 27802), (163, 27832), (168, 27859), (185, 27931), (231, 28081), (236, 28090), (279, 28177), (292, 28225), (313, 28285), (338, 28360), (339, 28363), (351, 28390), (352, 28393),

Gene: Labella_45 Start: 27803, Stop: 28816, Start Num: 28

Candidate Starts for Labella_45:

(Start: 28 @27803 has 22 MA's), (86, 27932), (104, 28013), (129, 28082), (157, 28166), (173, 28250), (187, 28301), (201, 28370), (202, 28373), (246, 28475), (250, 28481), (282, 28565), (286, 28580), (301, 28631), (317, 28679), (338, 28742),

Gene: LadyJasley_46 Start: 38676, Stop: 37750, Start Num: 37

Candidate Starts for LadyJasley_46:

(32, 38694), (Start: 37 @38676 has 1 MA's), (41, 38667), (82, 38574), (92, 38526), (102, 38478), (103, 38475), (104, 38472), (135, 38400), (155, 38343), (158, 38334), (159, 38331), (180, 38226), (242, 38046), (248, 38031), (284, 37911), (287, 37893), (320, 37800),

Gene: Lakshmi_42 Start: 28138, Stop: 29085, Start Num: 65

Candidate Starts for Lakshmi_42:

(Start: 65 @28138 has 78 MA's), (104, 28285), (116, 28327), (146, 28402), (163, 28483), (165, 28498), (168, 28510), (201, 28660), (229, 28729), (231, 28732), (323, 28966), (338, 29011), (339, 29014), (351, 29041), (352, 29044),

Gene: Lasagna_38 Start: 26108, Stop: 27058, Start Num: 65

Candidate Starts for Lasagna_38:

(Start: 65 @26108 has 78 MA's), (100, 26240), (103, 26252), (104, 26255), (110, 26279), (147, 26375), (157, 26423), (160, 26438), (168, 26480), (172, 26504), (185, 26552), (221, 26678), (229, 26702), (231, 26705), (236, 26714), (292, 26849), (313, 26909), (338, 26984), (351, 27014), (352, 27017),

Gene: LastNadiia_39 Start: 26882, Stop: 25941, Start Num: 69

Candidate Starts for LastNadiia_39:

(Start: 69 @26882 has 11 MA's), (94, 26777), (122, 26681), (204, 26366), (209, 26345), (239, 26279), (272, 26174), (287, 26117), (308, 26054), (311, 26045), (330, 25991),

Gene: Lauer_39 Start: 32447, Stop: 31389, Start Num: 64

Candidate Starts for Lauer_39:

(Start: 64 @32447 has 11 MA's), (98, 32321), (112, 32270), (120, 32246), (124, 32237), (138, 32204), (154, 32159), (176, 32057), (198, 31976), (222, 31898), (243, 31850), (269, 31757), (285, 31721), (296, 31688), (298, 31682), (300, 31673), (311, 31637), (316, 31622), (354, 31493), (357, 31481), (359, 31475), (361, 31460),

Gene: Laure_107 Start: 76210, Stop: 77187, Start Num: 49

Candidate Starts for Laure_107:

(Start: 49 @76210 has 10 MA's), (63, 76234), (Start: 75 @76255 has 5 MA's), (97, 76354), (115, 76426), (159, 76558), (160, 76567), (182, 76663), (188, 76684), (199, 76747), (207, 76768), (210, 76783), (213, 76795), (262, 76915), (272, 76960), (279, 76981), (311, 77089), (321, 77119), (325, 77131),

Gene: LazerLemon_51 Start: 36312, Stop: 37310, Start Num: 59

Candidate Starts for LazerLemon_51:

(6, 36060), (10, 36087), (11, 36132), (12, 36135), (Start: 59 @36312 has 11 MA's), (104, 36477), (116, 36519), (149, 36609), (154, 36642), (160, 36666), (182, 36756), (187, 36774), (188, 36777), (202, 36846), (236, 36936), (252, 36975), (267, 37032), (305, 37143), (349, 37248), (358, 37287),

Gene: Lennox_39 Start: 26316, Stop: 27266, Start Num: 65

Candidate Starts for Lennox_39:

(Start: 65 @26316 has 78 MA's), (100, 26448), (103, 26460), (104, 26463), (110, 26487), (147, 26583), (157, 26631), (160, 26646), (168, 26688), (172, 26712), (183, 26754), (185, 26760), (221, 26886), (229, 26910), (231, 26913), (236, 26922), (292, 27057), (313, 27117), (338, 27192), (351, 27222), (352, 27225),

Gene: LeoJr_102 Start: 83555, Stop: 84526, Start Num: 49

Candidate Starts for LeoJr_102:

(Start: 49 @83555 has 10 MA's), (63, 83579), (Start: 75 @83600 has 5 MA's), (99, 83714), (154, 83888), (159, 83903), (172, 83978), (181, 84005), (182, 84008), (186, 84023), (199, 84092), (207, 84113), (210, 84128), (213, 84140), (262, 84260), (266, 84281), (272, 84305), (279, 84326), (308, 84425), (311, 84434),

Gene: LilStuart_39 Start: 26319, Stop: 27269, Start Num: 65

Candidate Starts for LilStuart_39:

(Start: 65 @26319 has 78 MA's), (100, 26451), (103, 26463), (104, 26466), (110, 26490), (147, 26586), (157, 26634), (168, 26691), (172, 26715), (183, 26757), (185, 26763), (221, 26889), (229, 26913), (231, 26916), (236, 26925), (292, 27060), (313, 27120), (338, 27195), (351, 27225), (352, 27228),

Gene: LilyPad_56 Start: 41683, Stop: 42828, Start Num: 71

Candidate Starts for LilyPad_56:

(Start: 71 @41683 has 6 MA's), (74, 41692), (101, 41818), (104, 41830), (160, 42007), (187, 42112), (230, 42286), (237, 42298), (275, 42430), (288, 42478), (296, 42499), (299, 42508), (300, 42514), (306, 42532), (311, 42544), (322, 42577), (327, 42592), (329, 42595), (331, 42601), (346, 42646), (361, 42712), (362, 42724),

Gene: Linayshia_43 Start: 27941, Stop: 28954, Start Num: 28

Candidate Starts for Linayshia_43:

(Start: 28 @27941 has 22 MA's), (104, 28151), (129, 28220), (157, 28304), (169, 28367), (187, 28439), (188, 28442), (201, 28508), (202, 28511), (246, 28613), (250, 28619), (282, 28703), (286, 28718), (301, 28769), (317, 28817), (338, 28880),

Gene: Litotes_41 Start: 27533, Stop: 28480, Start Num: 65

Candidate Starts for Litotes_41:

(Start: 65 @27533 has 78 MA's), (103, 27677), (104, 27680), (107, 27695), (116, 27722), (142, 27785), (157, 27848), (165, 27893), (168, 27905), (172, 27929), (201, 28055), (229, 28124), (231, 28127), (279, 28223), (292, 28271), (313, 28331), (338, 28406), (351, 28436), (352, 28439),

Gene: LittleFella_61 Start: 43303, Stop: 44364, Start Num: 67

Candidate Starts for LittleFella_61:

(Start: 67 @43303 has 1 MA's), (Start: 71 @43309 has 6 MA's), (74, 43318), (88, 43387), (120, 43528), (121, 43531), (160, 43663), (166, 43696), (186, 43765), (207, 43852), (240, 43960), (322, 44113), (327, 44128), (329, 44131), (335, 44152), (361, 44248), (362, 44260), (370, 44323), (371, 44341),

Gene: LongHai_44 Start: 32247, Stop: 31231, Start Num: 65

Candidate Starts for LongHai_44:

(Start: 65 @32247 has 78 MA's), (89, 32154), (90, 32151), (118, 32064), (154, 31977), (166, 31920), (169, 31905), (186, 31851), (217, 31737), (300, 31497), (304, 31482), (311, 31461), (341, 31374), (353, 31335), (362, 31284), (366, 31263),

Gene: Lucy_39 Start: 26316, Stop: 27266, Start Num: 65

Candidate Starts for Lucy_39:

(Start: 65 @26316 has 78 MA's), (100, 26448), (103, 26460), (104, 26463), (110, 26487), (147, 26583), (157, 26631), (160, 26646), (168, 26688), (172, 26712), (183, 26754), (185, 26760), (221, 26886), (229, 26910), (231, 26913), (236, 26922), (292, 27057), (313, 27117), (338, 27192), (351, 27222), (352, 27225),

Gene: MAnor_44 Start: 31980, Stop: 30922, Start Num: 64

Candidate Starts for MAnor_44:

(53, 32004), (Start: 64 @31980 has 11 MA's), (98, 31854), (112, 31803), (124, 31770), (138, 31737), (154, 31692), (176, 31590), (187, 31563), (198, 31509), (222, 31431), (230, 31407), (243, 31383), (269, 31290), (296, 31221), (298, 31215), (300, 31206), (311, 31170), (312, 31167), (316, 31155), (343, 31068), (354, 31026), (357, 31014), (359, 31008), (361, 30993),

Gene: MScarn_45 Start: 29939, Stop: 28908, Start Num: 72

Candidate Starts for MScarn_45:

(20, 30068), (27, 30038), (Start: 44 @29984 has 2 MA's), (52, 29975), (Start: 72 @29939 has 30 MA's), (103, 29798), (154, 29681), (166, 29624), (186, 29555), (194, 29522), (216, 29444), (232, 29393), (300, 29198), (306, 29180), (311, 29162), (337, 29078), (343, 29060),

Gene: MaVan_39 Start: 29709, Stop: 28678, Start Num: 65

Candidate Starts for MaVan_39:

(Start: 65 @29709 has 78 MA's), (79, 29670), (90, 29613), (103, 29556), (120, 29526), (151, 29460), (154, 29439), (176, 29337), (188, 29307), (194, 29280), (207, 29232), (216, 29202), (275, 29037), (306, 28941), (311, 28923), (316, 28908),

Gene: Maco6_41 Start: 31189, Stop: 30173, Start Num: 65

Candidate Starts for Maco6_41:

(Start: 65 @31189 has 78 MA's), (89, 31096), (90, 31093), (118, 31006), (154, 30919), (166, 30862), (169, 30847), (186, 30793), (243, 30610), (300, 30439), (304, 30424), (311, 30403), (328, 30355), (353, 30277), (362, 30226), (366, 30205),

Gene: Madi_54 Start: 40504, Stop: 41709, Start Num: 38

Candidate Starts for Madi_54:

(Start: 38 @40504 has 4 MA's), (Start: 71 @40564 has 6 MA's), (74, 40573), (104, 40711), (114, 40735), (160, 40888), (166, 40921), (230, 41167), (232, 41170), (235, 41176), (243, 41191), (275, 41311), (288, 41359), (299, 41389), (300, 41395), (311, 41425), (322, 41458), (329, 41476), (331, 41482), (355, 41563), (361, 41593), (362, 41605), (370, 41668),

Gene: Makima_37 Start: 25998, Stop: 25066, Start Num: 69

Candidate Starts for Makima_37:

(Start: 69 @25998 has 11 MA's), (94, 25902), (154, 25698), (168, 25632), (204, 25491), (209, 25470), (239, 25404), (272, 25299), (287, 25242), (290, 25233), (292, 25230), (308, 25179), (311, 25170),

(330, 25116),

Gene: Makoto_39 Start: 26327, Stop: 27277, Start Num: 65

Candidate Starts for Makoto_39:

(Start: 65 @26327 has 78 MA's), (100, 26459), (103, 26471), (104, 26474), (110, 26498), (147, 26594), (157, 26642), (160, 26657), (168, 26699), (172, 26723), (183, 26765), (185, 26771), (221, 26897), (229, 26921), (231, 26924), (236, 26933), (292, 27068), (313, 27128), (338, 27203), (351, 27233), (352, 27236),

Gene: Malvina_40 Start: 29419, Stop: 28388, Start Num: 65

Candidate Starts for Malvina_40:

(Start: 65 @29419 has 78 MA's), (79, 29380), (103, 29266), (132, 29212), (151, 29170), (154, 29149), (176, 29047), (188, 29017), (265, 28777), (275, 28747), (296, 28684), (306, 28651), (311, 28633), (315, 28621),

Gene: MamaPearl_40 Start: 27489, Stop: 28439, Start Num: 65

Candidate Starts for MamaPearl_40:

(Start: 65 @27489 has 78 MA's), (100, 27621), (104, 27636), (107, 27651), (110, 27660), (147, 27756), (157, 27804), (160, 27819), (168, 27861), (172, 27885), (185, 27933), (187, 27942), (221, 28059), (231, 28086), (236, 28095), (313, 28290), (317, 28302), (338, 28365), (339, 28368), (351, 28395), (352, 28398),

Gene: Mareelih_165 Start: 94021, Stop: 93029, Start Num: 47

Candidate Starts for Mareelih_165:

(35, 94045), (Start: 47 @94021 has 4 MA's), (86, 93919), (101, 93847), (154, 93694), (172, 93604), (196, 93496), (200, 93487), (209, 93457), (210, 93454), (212, 93445), (227, 93400), (239, 93376), (266, 93295), (271, 93274), (284, 93232), (311, 93145), (312, 93142), (321, 93115), (342, 93052), (344, 93049),

Gene: Margaret_48 Start: 31484, Stop: 30459, Start Num: 68

Candidate Starts for Margaret_48:

(Start: 68 @31484 has 2 MA's), (Start: 76 @31466 has 1 MA's), (Start: 78 @31463 has 3 MA's), (103, 31337), (120, 31307), (154, 31220), (166, 31163), (186, 31094), (188, 31088), (198, 31037), (216, 30983), (222, 30959), (232, 30932), (260, 30863), (270, 30818), (280, 30803), (294, 30755), (296, 30752), (300, 30737), (315, 30689), (321, 30671), (361, 30524),

Gene: Maria1952_38 Start: 27510, Stop: 28463, Start Num: 70

Candidate Starts for Maria1952_38:

(Start: 70 @27510 has 23 MA's), (84, 27567), (104, 27657), (108, 27675), (144, 27765), (154, 27816), (163, 27855), (165, 27870), (169, 27888), (171, 27900), (183, 27948), (211, 28065), (229, 28104), (236, 28116), (313, 28314), (338, 28389), (351, 28419), (352, 28422),

Gene: Marky_53 Start: 36621, Stop: 37619, Start Num: 59

Candidate Starts for Marky_53:

(8, 36390), (Start: 28 @36564 has 22 MA's), (Start: 59 @36621 has 11 MA's), (104, 36786), (117, 36831), (134, 36867), (149, 36918), (154, 36951), (184, 37071), (188, 37086), (191, 37110), (199, 37146), (236, 37263), (257, 37311), (302, 37437), (305, 37446), (348, 37548), (358, 37590),

Gene: Mayweather_46 Start: 32259, Stop: 31201, Start Num: 64

Candidate Starts for Mayweather_46:

(53, 32283), (Start: 64 @32259 has 11 MA's), (98, 32133), (112, 32082), (120, 32058), (124, 32049), (138, 32016), (154, 31971), (176, 31869), (198, 31788), (222, 31710), (243, 31662), (269, 31569), (296, 31500), (298, 31494), (300, 31485), (311, 31449), (312, 31446), (316, 31434), (354, 31305),

(357, 31293), (359, 31287), (361, 31272),

Gene: McDazzle_45 Start: 31749, Stop: 30691, Start Num: 70

Candidate Starts for McDazzle_45:

(Start: 70 @31749 has 23 MA's), (98, 31632), (103, 31605), (112, 31581), (124, 31548), (138, 31515), (154, 31470), (176, 31368), (198, 31287), (222, 31209), (230, 31185), (243, 31161), (247, 31149), (269, 31068), (296, 30999), (298, 30993), (300, 30984), (311, 30948), (316, 30933), (354, 30804), (357, 30792), (359, 30786), (361, 30771),

Gene: MeganNoll_41 Start: 27707, Stop: 28654, Start Num: 65

Candidate Starts for MeganNoll_41:

(Start: 65 @27707 has 78 MA's), (100, 27839), (103, 27851), (104, 27854), (110, 27878), (147, 27974), (157, 28022), (163, 28052), (168, 28079), (185, 28151), (231, 28301), (236, 28310), (279, 28397), (292, 28445), (313, 28505), (338, 28580), (351, 28610), (352, 28613),

Gene: Microdon_49 Start: 35690, Stop: 36691, Start Num: 59

Candidate Starts for Microdon_49:

(6, 35453), (7, 35459), (10, 35480), (12, 35531), (Start: 59 @35690 has 11 MA's), (104, 35855), (108, 35873), (110, 35879), (149, 35990), (154, 36023), (160, 36047), (161, 36053), (171, 36107), (182, 36137), (184, 36143), (187, 36155), (188, 36158), (194, 36191), (202, 36227), (236, 36317), (267, 36413), (293, 36485), (305, 36524), (348, 36626), (358, 36668),

Gene: Milani_41 Start: 26576, Stop: 27577, Start Num: 28

Candidate Starts for Milani_41:

(Start: 28 @26576 has 22 MA's), (86, 26705), (104, 26786), (112, 26816), (157, 26927), (202, 27134), (207, 27146), (246, 27236), (250, 27242), (282, 27326), (286, 27341), (301, 27392), (338, 27503),

Gene: Mimi_103 Start: 82842, Stop: 83813, Start Num: 49

Candidate Starts for Mimi_103:

(Start: 49 @82842 has 10 MA's), (63, 82866), (Start: 75 @82887 has 5 MA's), (97, 82986), (99, 83001), (104, 83025), (115, 83058), (154, 83175), (159, 83190), (179, 83286), (182, 83295), (207, 83400), (210, 83415), (212, 83424), (244, 83499), (258, 83541), (272, 83592), (279, 83613), (311, 83721), (321, 83751),

Gene: Mireles_40 Start: 25556, Stop: 24624, Start Num: 69

Candidate Starts for Mireles_40:

(Start: 69 @25556 has 11 MA's), (94, 25460), (99, 25436), (154, 25256), (168, 25190), (179, 25151), (190, 25100), (204, 25049), (209, 25028), (218, 25004), (239, 24962), (272, 24857), (287, 24800), (290, 24791), (292, 24788), (308, 24737), (311, 24728), (330, 24674),

Gene: Misaeng_41 Start: 28126, Stop: 29073, Start Num: 65

Candidate Starts for Misaeng_41:

(Start: 65 @28126 has 78 MA's), (104, 28273), (108, 28291), (116, 28315), (134, 28351), (146, 28390), (157, 28441), (163, 28471), (165, 28486), (168, 28498), (201, 28648), (229, 28717), (231, 28720), (323, 28954), (338, 28999), (339, 29002), (351, 29029), (352, 29032),

Gene: Moki_39 Start: 26432, Stop: 27379, Start Num: 65

Candidate Starts for Moki_39:

(Start: 65 @26432 has 78 MA's), (100, 26564), (103, 26576), (104, 26579), (110, 26603), (147, 26699), (157, 26747), (168, 26804), (185, 26876), (187, 26885), (231, 27026), (236, 27035), (279, 27122), (313, 27230), (338, 27305), (339, 27308), (351, 27335), (352, 27338),

Gene: MrBoss_43 Start: 27530, Stop: 28477, Start Num: 65

Candidate Starts for MrBoss_43:

(Start: 65 @27530 has 78 MA's), (103, 27674), (104, 27677), (107, 27692), (116, 27719), (142, 27782), (147, 27797), (157, 27845), (165, 27890), (168, 27902), (172, 27926), (201, 28052), (229, 28121), (231, 28124), (292, 28268), (313, 28328), (338, 28403), (339, 28406), (351, 28433), (352, 28436),

Gene: MrGloopy_42 Start: 27636, Stop: 28583, Start Num: 65

Candidate Starts for MrGloopy_42:

(Start: 65 @27636 has 78 MA's), (100, 27768), (103, 27780), (104, 27783), (110, 27807), (147, 27903), (157, 27951), (163, 27981), (168, 28008), (185, 28080), (231, 28230), (236, 28239), (279, 28326), (292, 28374), (313, 28434), (338, 28509), (339, 28512), (351, 28539), (352, 28542),

Gene: Muddy_43 Start: 32421, Stop: 31405, Start Num: 65

Candidate Starts for Muddy_43:

(Start: 65 @32421 has 78 MA's), (89, 32328), (90, 32325), (118, 32238), (154, 32151), (166, 32094), (169, 32079), (186, 32025), (243, 31842), (300, 31671), (304, 31656), (311, 31635), (328, 31587), (353, 31509), (362, 31458), (366, 31437),

Gene: MunkgeeRoachy_39 Start: 29253, Stop: 28222, Start Num: 72

Candidate Starts for MunkgeeRoachy_39:

(Start: 72 @29253 has 30 MA's), (120, 29082), (154, 28995), (166, 28938), (186, 28869), (194, 28836), (216, 28758), (232, 28707), (300, 28512), (306, 28494), (311, 28476), (337, 28392), (343, 28374),

Gene: Nancia_39 Start: 26343, Stop: 27293, Start Num: 65

Candidate Starts for Nancia_39:

(Start: 65 @26343 has 78 MA's), (80, 26376), (87, 26412), (100, 26475), (103, 26487), (104, 26490), (110, 26514), (147, 26610), (157, 26658), (160, 26673), (168, 26715), (172, 26739), (185, 26787), (221, 26913), (229, 26937), (231, 26940), (236, 26949), (292, 27084), (313, 27144), (338, 27219), (339, 27222), (351, 27249), (352, 27252),

Gene: Nellie_42 Start: 36942, Stop: 36106, Start Num: 56

Candidate Starts for Nellie_42:

(Start: 56 @36942 has 6 MA's), (Start: 66 @36921 has 3 MA's), (105, 36762), (123, 36723), (126, 36717), (133, 36705), (156, 36654), (162, 36633), (167, 36606), (189, 36528), (250, 36354), (261, 36318), (312, 36171),

Gene: Neuville_37 Start: 24528, Stop: 23596, Start Num: 69

Candidate Starts for Neuville_37:

(Start: 69 @24528 has 11 MA's), (107, 24369), (128, 24324), (168, 24162), (179, 24123), (204, 24021), (209, 24000), (220, 23973), (239, 23934), (262, 23874), (272, 23829), (287, 23772), (290, 23763), (292, 23760), (308, 23709), (311, 23700), (325, 23658), (330, 23646),

Gene: Nibbles_38 Start: 29396, Stop: 28365, Start Num: 65

Candidate Starts for Nibbles_38:

(Start: 65 @29396 has 78 MA's), (79, 29357), (90, 29300), (103, 29243), (120, 29213), (151, 29147), (154, 29126), (176, 29024), (188, 28994), (194, 28967), (207, 28919), (216, 28889), (275, 28724), (306, 28628), (311, 28610), (316, 28595),

Gene: Nina_40 Start: 29915, Stop: 28884, Start Num: 72

Candidate Starts for Nina_40:

(Start: 68 @29921 has 2 MA's), (Start: 72 @29915 has 30 MA's), (154, 29657), (166, 29600), (186, 29531), (194, 29498), (216, 29420), (232, 29369), (300, 29174), (306, 29156), (311, 29138), (337, 29054), (343, 29036),

Gene: NoShow_51 Start: 35399, Stop: 34308, Start Num: 39

Candidate Starts for NoShow_51:

(36, 35402), (Start: 39 @35399 has 2 MA's), (112, 35174), (120, 35150), (140, 35105), (151, 35084), (152, 35075), (154, 35063), (168, 34997), (169, 34991), (176, 34961), (186, 34937), (188, 34931), (194, 34904), (201, 34871), (222, 34802), (259, 34712), (265, 34691), (269, 34667), (284, 34634), (311, 34544), (361, 34376), (362, 34364), (366, 34343),

Gene: Nodigi_49 Start: 32513, Stop: 31491, Start Num: 70

Candidate Starts for Nodigi_49:

(51, 32543), (60, 32528), (Start: 70 @32513 has 23 MA's), (98, 32396), (103, 32369), (120, 32339), (132, 32315), (154, 32252), (166, 32195), (186, 32126), (188, 32120), (191, 32102), (198, 32069), (216, 32015), (222, 31991), (232, 31964), (259, 31898), (260, 31895), (270, 31850), (280, 31835), (286, 31814), (294, 31787), (300, 31769), (315, 31721), (361, 31556),

Gene: Nubia_42 Start: 28083, Stop: 29030, Start Num: 65

Candidate Starts for Nubia_42:

(Start: 65 @28083 has 78 MA's), (104, 28230), (116, 28272), (146, 28347), (163, 28428), (165, 28443), (168, 28455), (201, 28605), (229, 28674), (231, 28677), (323, 28911), (338, 28956), (339, 28959), (351, 28986), (352, 28989),

Gene: OMalley_39 Start: 27504, Stop: 28451, Start Num: 70

Candidate Starts for OMalley_39:

(Start: 70 @27504 has 23 MA's), (86, 27570), (108, 27669), (116, 27693), (144, 27759), (154, 27807), (160, 27831), (165, 27861), (169, 27879), (171, 27891), (181, 27933), (221, 28071), (229, 28092), (231, 28095), (313, 28302), (338, 28377), (339, 28380), (351, 28407), (352, 28410),

Gene: Olympi_44 Start: 27608, Stop: 28621, Start Num: 28

Candidate Starts for Olympi_44:

(Start: 28 @27608 has 22 MA's), (86, 27737), (104, 27818), (129, 27887), (157, 27971), (173, 28055), (187, 28106), (201, 28175), (202, 28178), (246, 28280), (250, 28286), (282, 28370), (286, 28385), (301, 28436), (317, 28484), (338, 28547),

Gene: Orla_49 Start: 32486, Stop: 31464, Start Num: 70

Candidate Starts for Orla_49:

(19, 32618), (42, 32534), (51, 32522), (Start: 70 @32486 has 23 MA's), (103, 32342), (120, 32312), (132, 32288), (154, 32225), (166, 32168), (186, 32099), (198, 32042), (216, 31988), (232, 31937), (260, 31868), (270, 31823), (280, 31808), (286, 31787), (294, 31760), (296, 31757), (300, 31742), (315, 31694), (361, 31529),

Gene: OurGirlNessie_38 Start: 26071, Stop: 27021, Start Num: 65

Candidate Starts for OurGirlNessie_38:

(Start: 65 @26071 has 78 MA's), (100, 26203), (103, 26215), (104, 26218), (110, 26242), (147, 26338), (157, 26386), (160, 26401), (168, 26443), (172, 26467), (185, 26515), (221, 26641), (229, 26665), (231, 26668), (236, 26677), (292, 26812), (313, 26872), (338, 26947), (351, 26977), (352, 26980),

Gene: Oxynfrius_42 Start: 28104, Stop: 29051, Start Num: 65

Candidate Starts for Oxynfrius_42:

(Start: 65 @28104 has 78 MA's), (104, 28251), (116, 28293), (146, 28368), (163, 28449), (165, 28464), (168, 28476), (201, 28626), (229, 28695), (231, 28698), (323, 28932), (338, 28977), (339, 28980), (351, 29007), (352, 29010),

Gene: Panchaali_94 Start: 80207, Stop: 81178, Start Num: 49

Candidate Starts for Panchaali_94:

(Start: 49 @80207 has 10 MA's), (63, 80231), (Start: 75 @80252 has 5 MA's), (90, 80327), (99, 80366), (154, 80540), (159, 80555), (172, 80630), (181, 80657), (182, 80660), (186, 80675), (188, 80681), (199, 80744), (207, 80765), (210, 80780), (213, 80792), (258, 80906), (272, 80957), (279, 80978), (308, 81077), (311, 81086), (321, 81116),

Gene: PartyCup_42 Start: 27759, Stop: 28706, Start Num: 65

Candidate Starts for PartyCup_42:

(Start: 65 @27759 has 78 MA's), (103, 27903), (104, 27906), (107, 27921), (116, 27948), (142, 28011), (147, 28026), (157, 28074), (165, 28119), (168, 28131), (172, 28155), (201, 28281), (229, 28350), (231, 28353), (292, 28497), (313, 28557), (338, 28632), (339, 28635), (351, 28662), (352, 28665),

Gene: Parvaparticeps_12 Start: 7767, Stop: 8726, Start Num: 62

Candidate Starts for Parvaparticeps_12:

(1, 7284), (2, 7317), (9, 7527), (62, 7767), (Start: 76 @7794 has 1 MA's), (Start: 78 @7797 has 3 MA's), (80, 7812), (84, 7836), (103, 7923), (122, 7983), (157, 8097), (172, 8178), (178, 8202), (183, 8220), (187, 8235), (188, 8238), (202, 8307), (221, 8352), (231, 8379), (282, 8475), (295, 8520), (317, 8589), (338, 8652), (348, 8673),

Gene: Patbob_102 Start: 83577, Stop: 84548, Start Num: 49

Candidate Starts for Patbob_102:

(Start: 49 @83577 has 10 MA's), (63, 83601), (Start: 75 @83622 has 5 MA's), (97, 83721), (99, 83736), (104, 83760), (115, 83793), (154, 83910), (159, 83925), (179, 84021), (182, 84030), (207, 84135), (210, 84150), (212, 84159), (244, 84234), (258, 84276), (272, 84327), (279, 84348), (308, 84447), (311, 84456), (321, 84486),

Gene: PauloDiaboli_113 Start: 76695, Stop: 75760, Start Num: 61

Candidate Starts for PauloDiaboli_113:

(Start: 61 @76695 has 6 MA's), (Start: 65 @76686 has 78 MA's), (94, 76578), (121, 76488), (148, 76437), (152, 76410), (154, 76398), (171, 76314), (174, 76308), (186, 76269), (212, 76152), (234, 76101), (278, 75969), (279, 75966), (280, 75960), (290, 75921), (312, 75855), (321, 75828),

Gene: PermaG_43 Start: 27639, Stop: 28652, Start Num: 28

Candidate Starts for PermaG_43:

(Start: 28 @27639 has 22 MA's), (86, 27768), (104, 27849), (157, 28002), (168, 28059), (187, 28137), (201, 28206), (202, 28209), (233, 28284), (246, 28311), (282, 28401), (286, 28416), (301, 28467), (338, 28578),

Gene: Phendrix_170 Start: 90108, Stop: 89107, Start Num: 49

Candidate Starts for Phendrix_170:

(Start: 49 @90108 has 10 MA's), (58, 90096), (Start: 78 @90054 has 3 MA's), (81, 90033), (108, 89904), (154, 89781), (155, 89778), (159, 89766), (194, 89607), (200, 89574), (203, 89565), (212, 89532), (215, 89526), (228, 89487), (238, 89469), (239, 89466), (262, 89406), (271, 89364), (279, 89340), (281, 89331), (289, 89298), (311, 89235), (312, 89232), (321, 89205), (326, 89187),

Gene: Phrampa_96 Start: 84980, Stop: 85951, Start Num: 49

Candidate Starts for Phrampa_96:

(Start: 49 @84980 has 10 MA's), (63, 85004), (Start: 75 @85025 has 5 MA's), (97, 85124), (99, 85139), (104, 85163), (115, 85196), (154, 85313), (159, 85328), (172, 85403), (182, 85433), (188, 85454), (207, 85538), (210, 85553), (212, 85562), (213, 85565), (244, 85637), (258, 85679), (272, 85730), (279, 85751), (311, 85859), (321, 85889),

Gene: Phroglets_37 Start: 36257, Stop: 35415, Start Num: 73

Candidate Starts for Phroglets_37:

(Start: 73 @36257 has 1 MA's), (112, 36095), (127, 36062), (133, 36053), (137, 36038), (188, 35870), (207, 35795), (209, 35783), (221, 35762), (250, 35693), (271, 35612), (280, 35594), (297, 35540), (323, 35462),

Gene: PigHeaded_48 Start: 38076, Stop: 37183, Start Num: 44

Candidate Starts for PigHeaded_48:

(Start: 44 @38076 has 2 MA's), (92, 37941), (98, 37917), (153, 37767), (159, 37746), (177, 37644), (181, 37638), (183, 37632), (193, 37590), (194, 37587), (219, 37509), (223, 37497), (242, 37461), (248, 37446), (291, 37314), (320, 37230),

Gene: PinkFriday_39 Start: 26620, Stop: 27570, Start Num: 70

Candidate Starts for PinkFriday_39:

(Start: 70 @26620 has 23 MA's), (84, 26677), (104, 26767), (108, 26785), (144, 26875), (154, 26926), (163, 26965), (165, 26980), (169, 26998), (171, 27010), (183, 27058), (211, 27175), (229, 27214), (236, 27226), (279, 27313), (292, 27361), (313, 27421), (338, 27496), (351, 27526), (352, 27529),

Gene: PitaDog_39 Start: 26328, Stop: 27278, Start Num: 65

Candidate Starts for PitaDog_39:

(Start: 65 @26328 has 78 MA's), (100, 26460), (103, 26472), (104, 26475), (110, 26499), (147, 26595), (157, 26643), (160, 26658), (168, 26700), (172, 26724), (183, 26766), (185, 26772), (221, 26898), (229, 26922), (231, 26925), (236, 26934), (292, 27069), (313, 27129), (338, 27204), (351, 27234), (352, 27237),

Gene: Pons_44 Start: 31610, Stop: 30552, Start Num: 64

Candidate Starts for Pons_44:

(53, 31634), (Start: 64 @31610 has 11 MA's), (98, 31484), (112, 31433), (120, 31409), (124, 31400), (138, 31367), (154, 31322), (176, 31220), (198, 31139), (222, 31061), (230, 31037), (243, 31013), (247, 31001), (269, 30920), (285, 30884), (296, 30851), (298, 30845), (300, 30836), (304, 30821), (311, 30800), (316, 30785), (354, 30656), (357, 30644), (359, 30638), (361, 30623),

Gene: PotPie_43 Start: 32541, Stop: 31483, Start Num: 64

Candidate Starts for PotPie_43:

(Start: 64 @32541 has 11 MA's), (98, 32415), (103, 32388), (112, 32364), (120, 32340), (124, 32331), (138, 32298), (154, 32253), (176, 32151), (198, 32070), (222, 31992), (243, 31944), (247, 31932), (269, 31851), (296, 31782), (298, 31776), (300, 31767), (304, 31752), (311, 31731), (316, 31716), (343, 31629), (354, 31587), (357, 31575), (359, 31569), (361, 31554),

Gene: Potatoes_41 Start: 27534, Stop: 28481, Start Num: 65

Candidate Starts for Potatoes_41:

(Start: 65 @27534 has 78 MA's), (87, 27603), (100, 27666), (103, 27678), (104, 27681), (110, 27705), (147, 27801), (157, 27849), (163, 27879), (168, 27906), (185, 27978), (231, 28128), (236, 28137), (279, 28224), (292, 28272), (313, 28332), (338, 28407), (339, 28410), (351, 28437), (352, 28440),

Gene: Preamble_39 Start: 26398, Stop: 27345, Start Num: 65

Candidate Starts for Preamble_39:

(Start: 65 @26398 has 78 MA's), (100, 26530), (103, 26542), (104, 26545), (110, 26569), (147, 26665), (157, 26713), (160, 26728), (168, 26770), (171, 26788), (181, 26830), (185, 26842), (292, 27136), (313, 27196), (338, 27271), (339, 27274), (351, 27301), (352, 27304),

Gene: PsychoKiller_40 Start: 29791, Stop: 28760, Start Num: 72

Candidate Starts for PsychoKiller_40:

(Start: 72 @29791 has 30 MA's), (120, 29620), (154, 29533), (166, 29476), (186, 29407), (194, 29374), (216, 29296), (232, 29245), (300, 29050), (306, 29032), (311, 29014), (337, 28930), (343, 28912),

Gene: Pterodactyl_39 Start: 26308, Stop: 27258, Start Num: 65

Candidate Starts for Pterodactyl_39:

(Start: 65 @26308 has 78 MA's), (100, 26440), (103, 26452), (104, 26455), (110, 26479), (147, 26575), (157, 26623), (160, 26638), (168, 26680), (172, 26704), (185, 26752), (221, 26878), (229, 26902), (231, 26905), (236, 26914), (292, 27049), (313, 27109), (338, 27184), (351, 27214), (352, 27217),

Gene: Pumancara_39 Start: 26532, Stop: 27482, Start Num: 70

Candidate Starts for Pumancara_39:

(Start: 70 @26532 has 23 MA's), (84, 26589), (104, 26679), (108, 26697), (144, 26787), (154, 26838), (163, 26877), (165, 26892), (169, 26910), (171, 26922), (183, 26970), (211, 27087), (236, 27138), (279, 27225), (292, 27273), (313, 27333), (338, 27408), (351, 27438), (352, 27441),

Gene: Pumpernickel_110 Start: 78248, Stop: 77310, Start Num: 61

Candidate Starts for Pumpernickel_110:

(Start: 61 @78248 has 6 MA's), (96, 78125), (105, 78077), (125, 78032), (148, 77990), (150, 77981), (152, 77963), (154, 77951), (171, 77867), (175, 77858), (179, 77846), (186, 77822), (205, 77735), (207, 77729), (212, 77705), (274, 77531), (279, 77519), (290, 77474), (321, 77381),

Gene: Quasar_41 Start: 30339, Stop: 29308, Start Num: 72

Candidate Starts for Quasar_41:

(Start: 72 @30339 has 30 MA's), (120, 30168), (154, 30081), (166, 30024), (186, 29955), (194, 29922), (216, 29844), (232, 29793), (300, 29598), (306, 29580), (311, 29562), (337, 29478), (343, 29460),

Gene: RADical_42 Start: 29785, Stop: 28754, Start Num: 72

Candidate Starts for RADical_42:

(Start: 72 @29785 has 30 MA's), (103, 29644), (154, 29527), (166, 29470), (186, 29401), (194, 29368), (216, 29290), (232, 29239), (300, 29044), (306, 29026), (311, 29008), (337, 28924), (343, 28906), (361, 28831),

Gene: RAP15_42 Start: 27707, Stop: 28654, Start Num: 65

Candidate Starts for RAP15_42:

(Start: 65 @27707 has 78 MA's), (100, 27839), (103, 27851), (104, 27854), (110, 27878), (147, 27974), (157, 28022), (163, 28052), (168, 28079), (185, 28151), (231, 28301), (236, 28310), (279, 28397), (292, 28445), (313, 28505), (338, 28580), (351, 28610), (352, 28613),

Gene: RSchmailzl_42 Start: 29828, Stop: 28797, Start Num: 72

Candidate Starts for RSchmailzl_42:

(Start: 68 @29834 has 2 MA's), (Start: 72 @29828 has 30 MA's), (103, 29687), (154, 29570), (166, 29513), (186, 29444), (194, 29411), (216, 29333), (232, 29282), (300, 29087), (306, 29069), (311, 29051), (337, 28967), (343, 28949),

Gene: Racecar_104 Start: 83495, Stop: 84466, Start Num: 49

Candidate Starts for Racecar_104:

(Start: 49 @83495 has 10 MA's), (63, 83519), (Start: 75 @83540 has 5 MA's), (97, 83639), (99, 83654), (104, 83678), (115, 83711), (154, 83828), (159, 83843), (179, 83939), (182, 83948), (207, 84053), (210, 84068), (212, 84077), (244, 84152), (258, 84194), (272, 84245), (279, 84266), (311, 84374), (321, 84404),

Gene: RanchParmCat_47 Start: 31601, Stop: 30597, Start Num: 78

Candidate Starts for RanchParmCat_47:

(Start: 68 @31622 has 2 MA's), (Start: 76 @31604 has 1 MA's), (Start: 78 @31601 has 3 MA's), (103, 31475), (120, 31445), (154, 31358), (166, 31301), (186, 31232), (188, 31226), (198, 31175), (216,

31121), (222, 31097), (232, 31070), (260, 31001), (270, 30956), (280, 30941), (294, 30893), (296, 30890), (300, 30875), (315, 30827), (321, 30809), (361, 30662),

Gene: Rasovi_43 Start: 27973, Stop: 28986, Start Num: 28

Candidate Starts for Rasovi_43:

(Start: 28 @27973 has 22 MA's), (104, 28183), (129, 28252), (157, 28336), (169, 28399), (187, 28471), (188, 28474), (201, 28540), (202, 28543), (246, 28645), (250, 28651), (282, 28735), (286, 28750), (301, 28801), (317, 28849), (338, 28912),

Gene: RcigaStruga_41 Start: 27893, Stop: 28828, Start Num: 65

Candidate Starts for RcigaStruga_41:

(Start: 65 @27893 has 78 MA's), (104, 28040), (108, 28058), (116, 28082), (146, 28157), (157, 28208), (163, 28238), (165, 28253), (168, 28265), (201, 28415), (229, 28484), (231, 28487), (286, 28598), (338, 28754), (339, 28757), (351, 28784), (352, 28787),

Gene: RedBaron_45 Start: 30028, Stop: 28997, Start Num: 72

Candidate Starts for RedBaron_45:

(Start: 72 @30028 has 30 MA's), (103, 29887), (154, 29770), (166, 29713), (186, 29644), (194, 29611), (216, 29533), (232, 29482), (300, 29287), (306, 29269), (311, 29251), (337, 29167), (343, 29149),

Gene: ReginaGlobina_102 Start: 83120, Stop: 84091, Start Num: 49

Candidate Starts for ReginaGlobina_102:

(Start: 49 @83120 has 10 MA's), (63, 83144), (Start: 75 @83165 has 5 MA's), (99, 83279), (154, 83453), (159, 83468), (172, 83543), (181, 83570), (182, 83573), (186, 83588), (199, 83657), (207, 83678), (210, 83693), (213, 83705), (262, 83825), (266, 83846), (272, 83870), (279, 83891), (308, 83990), (311, 83999),

Gene: Riovina_39 Start: 27504, Stop: 28451, Start Num: 70

Candidate Starts for Riovina_39:

(Start: 70 @27504 has 23 MA's), (86, 27570), (108, 27669), (116, 27693), (144, 27759), (154, 27807), (160, 27831), (165, 27861), (169, 27879), (171, 27891), (181, 27933), (221, 28071), (229, 28092), (231, 28095), (313, 28302), (338, 28377), (339, 28380), (351, 28407), (352, 28410),

Gene: Riverdale_42 Start: 27672, Stop: 28619, Start Num: 65

Candidate Starts for Riverdale_42:

(Start: 65 @27672 has 78 MA's), (87, 27741), (100, 27804), (103, 27816), (104, 27819), (110, 27843), (147, 27939), (157, 27987), (163, 28017), (168, 28044), (185, 28116), (231, 28266), (236, 28275), (279, 28362), (292, 28410), (313, 28470), (338, 28545), (339, 28548), (351, 28575), (352, 28578),

Gene: Roberts_37 Start: 24528, Stop: 23596, Start Num: 69

Candidate Starts for Roberts_37:

(Start: 69 @24528 has 11 MA's), (107, 24369), (128, 24324), (168, 24162), (179, 24123), (204, 24021), (209, 24000), (220, 23973), (239, 23934), (262, 23874), (272, 23829), (287, 23772), (290, 23763), (292, 23760), (308, 23709), (311, 23700), (325, 23658), (330, 23646),

Gene: Rockabye_104 Start: 76731, Stop: 77705, Start Num: 49

Candidate Starts for Rockabye_104:

(Start: 49 @76731 has 10 MA's), (63, 76755), (Start: 75 @76776 has 5 MA's), (97, 76875), (115, 76947), (154, 77064), (159, 77079), (182, 77184), (207, 77289), (210, 77304), (215, 77319), (272, 77481), (279, 77502), (311, 77610), (321, 77640),

Gene: Rootkit7_42 Start: 27509, Stop: 28522, Start Num: 28

Candidate Starts for Rootkit7_42:

(Start: 28 @27509 has 22 MA's), (86, 27638), (104, 27719), (129, 27788), (157, 27872), (173, 27956), (187, 28007), (201, 28076), (202, 28079), (246, 28181), (250, 28187), (282, 28271), (286, 28286), (301, 28337), (317, 28385), (338, 28448),

Gene: Rozby_41 Start: 27464, Stop: 28411, Start Num: 65

Candidate Starts for Rozby_41:

(Start: 65 @27464 has 78 MA's), (87, 27533), (100, 27596), (103, 27608), (104, 27611), (110, 27635), (147, 27731), (157, 27779), (163, 27809), (168, 27836), (185, 27908), (231, 28058), (236, 28067), (279, 28154), (292, 28202), (313, 28262), (338, 28337), (339, 28340), (351, 28367), (352, 28370),

Gene: SBlackberry_42 Start: 27445, Stop: 28458, Start Num: 28

Candidate Starts for SBlackberry_42:

(18, 27400), (Start: 28 @27445 has 22 MA's), (104, 27655), (129, 27724), (157, 27808), (168, 27865), (187, 27943), (201, 28012), (202, 28015), (233, 28090), (246, 28117), (286, 28222), (301, 28273), (317, 28321), (338, 28384),

Gene: SJReid_107 Start: 75794, Stop: 76723, Start Num: 75

Candidate Starts for SJReid_107:

(Start: 49 @75749 has 10 MA's), (63, 75773), (Start: 75 @75794 has 5 MA's), (90, 75869), (97, 75893), (98, 75902), (115, 75965), (154, 76082), (160, 76106), (166, 76139), (179, 76193), (182, 76202), (207, 76307), (210, 76322), (215, 76337), (272, 76499), (279, 76520), (311, 76628), (321, 76658),

Gene: Salvus_44 Start: 32247, Stop: 31231, Start Num: 65

Candidate Starts for Salvus_44:

(Start: 65 @32247 has 78 MA's), (89, 32154), (90, 32151), (118, 32064), (154, 31977), (166, 31920), (169, 31905), (186, 31851), (217, 31737), (300, 31497), (304, 31482), (311, 31461), (341, 31374), (353, 31335), (362, 31284), (366, 31263),

Gene: Sapo_31 Start: 30227, Stop: 29166, Start Num: 25

Candidate Starts for Sapo_31:

(Start: 25 @30227 has 1 MA's), (95, 30014), (125, 29909), (163, 29801), (172, 29750), (174, 29744), (187, 29696), (193, 29663), (236, 29546), (276, 29507), (345, 29315), (363, 29234), (364, 29231), (365, 29222), (368, 29192),

Gene: Savage2526_42 Start: 27701, Stop: 28648, Start Num: 65

Candidate Starts for Savage2526_42:

(Start: 65 @27701 has 78 MA's), (100, 27833), (103, 27845), (104, 27848), (110, 27872), (147, 27968), (157, 28016), (163, 28046), (168, 28073), (185, 28145), (231, 28295), (236, 28304), (279, 28391), (292, 28439), (313, 28499), (338, 28574), (339, 28577), (351, 28604), (352, 28607),

Gene: Scuttle_41 Start: 27661, Stop: 28608, Start Num: 65

Candidate Starts for Scuttle_41:

(Start: 65 @27661 has 78 MA's), (100, 27793), (104, 27808), (110, 27832), (147, 27928), (157, 27976), (163, 28006), (168, 28033), (185, 28105), (231, 28255), (236, 28264), (279, 28351), (292, 28399), (313, 28459), (338, 28534), (339, 28537), (351, 28564), (352, 28567),

Gene: Sergei_39 Start: 27511, Stop: 28464, Start Num: 70

Candidate Starts for Sergei_39:

(Start: 70 @27511 has 23 MA's), (84, 27568), (104, 27658), (108, 27676), (144, 27766), (154, 27817), (163, 27856), (165, 27871), (169, 27889), (171, 27901), (183, 27949), (211, 28066), (229, 28105), (236, 28117), (313, 28315), (338, 28390), (351, 28420), (352, 28423),

Gene: SheckWes_46 Start: 31294, Stop: 30236, Start Num: 70

Candidate Starts for SheckWes_46:

(Start: 70 @31294 has 23 MA's), (98, 31177), (103, 31150), (112, 31126), (124, 31093), (138, 31060), (154, 31015), (176, 30913), (198, 30832), (222, 30754), (230, 30730), (243, 30706), (247, 30694), (269, 30613), (296, 30544), (298, 30538), (300, 30529), (311, 30493), (312, 30490), (316, 30478), (343, 30391), (354, 30349), (357, 30337), (359, 30331), (361, 30316),

Gene: Shocker_49 Start: 38387, Stop: 37386, Start Num: 45

Candidate Starts for Shocker_49:

(30, 38426), (Start: 45 @38387 has 1 MA's), (111, 38162), (136, 38102), (166, 37967), (167, 37964), (184, 37901), (188, 37886), (194, 37856), (208, 37805), (222, 37754), (232, 37730), (256, 37667), (264, 37640), (268, 37616), (279, 37598),

Gene: Shrew_83 Start: 49717, Stop: 50844, Start Num: 33

Candidate Starts for Shrew_83:

(24, 49672), (Start: 33 @49717 has 1 MA's), (79, 49822), (101, 49924), (138, 50005), (152, 50038), (193, 50206), (201, 50242), (292, 50533), (311, 50593), (315, 50605), (323, 50629), (326, 50638), (357, 50740), (360, 50752),

Gene: Shynx_50 Start: 36115, Stop: 37113, Start Num: 59

Candidate Starts for Shynx_50:

(3, 35722), (6, 35878), (12, 35956), (Start: 55 @36109 has 4 MA's), (Start: 59 @36115 has 11 MA's), (104, 36280), (110, 36304), (149, 36412), (154, 36445), (160, 36469), (171, 36529), (182, 36559), (184, 36565), (187, 36577), (188, 36580), (194, 36613), (202, 36649), (236, 36739), (267, 36835), (301, 36934), (305, 36946), (358, 37090),

Gene: Sienna_54 Start: 40504, Stop: 41709, Start Num: 38

Candidate Starts for Sienna_54:

(Start: 38 @40504 has 4 MA's), (Start: 71 @40564 has 6 MA's), (74, 40573), (104, 40711), (114, 40735), (160, 40888), (166, 40921), (230, 41167), (232, 41170), (235, 41176), (243, 41191), (275, 41311), (288, 41359), (299, 41389), (300, 41395), (311, 41425), (322, 41458), (329, 41476), (331, 41482), (355, 41563), (361, 41593), (362, 41605), (370, 41668),

Gene: Sixama_166 Start: 94053, Stop: 93025, Start Num: 31

Candidate Starts for Sixama_166:

(29, 94059), (Start: 31 @94053 has 1 MA's), (Start: 49 @94014 has 10 MA's), (58, 94002), (80, 93948), (121, 93786), (132, 93765), (154, 93690), (190, 93528), (192, 93522), (196, 93492), (212, 93441), (227, 93399), (228, 93396), (239, 93375), (271, 93273), (308, 93153), (311, 93144), (312, 93141), (321, 93114), (342, 93048), (347, 93036),

Gene: SketchMex_41 Start: 29869, Stop: 28796, Start Num: 44

Candidate Starts for SketchMex_41:

(20, 29953), (27, 29923), (Start: 44 @29869 has 2 MA's), (52, 29860), (Start: 72 @29824 has 30 MA's), (132, 29629), (154, 29566), (186, 29440), (191, 29416), (216, 29329), (232, 29278), (280, 29149), (300, 29083), (306, 29065), (311, 29047), (337, 28963), (361, 28870),

Gene: Socotra_42 Start: 29790, Stop: 28759, Start Num: 72

Candidate Starts for Socotra_42:

(Start: 68 @29796 has 2 MA's), (Start: 72 @29790 has 30 MA's), (154, 29532), (166, 29475), (186, 29406), (194, 29373), (216, 29295), (232, 29244), (300, 29049), (306, 29031), (311, 29013), (337, 28929), (343, 28911),

Gene: Sopespian_41 Start: 29792, Stop: 28761, Start Num: 72

Candidate Starts for Sopespian_41:

(Start: 72 @29792 has 30 MA's), (120, 29621), (154, 29534), (166, 29477), (186, 29408), (194, 29375), (216, 29297), (232, 29246), (300, 29051), (306, 29033), (311, 29015), (337, 28931), (343, 28913),

Gene: Spocter_40 Start: 29643, Stop: 30608, Start Num: 50

Candidate Starts for Spocter_40:

(Start: 50 @29643 has 3 MA's), (80, 29706), (100, 29805), (109, 29841), (131, 29880), (155, 29943), (157, 29949), (183, 30072), (188, 30090), (191, 30114), (198, 30147), (229, 30225), (277, 30342), (287, 30381), (307, 30444),

Gene: Starburst_42 Start: 29785, Stop: 28754, Start Num: 72

Candidate Starts for Starburst_42:

(Start: 72 @29785 has 30 MA's), (103, 29644), (154, 29527), (166, 29470), (186, 29401), (194, 29368), (216, 29290), (232, 29239), (300, 29044), (306, 29026), (311, 29008), (337, 28924), (343, 28906), (361, 28831),

Gene: SteamedHams_42 Start: 29606, Stop: 28572, Start Num: 72

Candidate Starts for SteamedHams_42:

(Start: 72 @29606 has 30 MA's), (88, 29531), (132, 29411), (154, 29348), (176, 29246), (216, 29111), (280, 28931), (283, 28922), (300, 28865), (306, 28847), (311, 28829), (337, 28745),

Gene: Stewart25555_94 Start: 79965, Stop: 80936, Start Num: 49

Candidate Starts for Stewart25555_94:

(Start: 49 @79965 has 10 MA's), (63, 79989), (Start: 75 @80010 has 5 MA's), (90, 80085), (99, 80124), (154, 80298), (159, 80313), (160, 80322), (172, 80388), (181, 80415), (182, 80418), (186, 80433), (199, 80502), (207, 80523), (210, 80538), (213, 80550), (266, 80691), (272, 80715), (279, 80736), (308, 80835), (311, 80844), (321, 80874),

Gene: Studio_39 Start: 25891, Stop: 24959, Start Num: 69

Candidate Starts for Studio_39:

(Start: 69 @25891 has 11 MA's), (107, 25732), (128, 25687), (168, 25525), (179, 25486), (204, 25384), (206, 25378), (209, 25363), (220, 25336), (239, 25297), (262, 25237), (272, 25192), (287, 25135), (308, 25072), (311, 25063), (330, 25009),

Gene: Stuff_50 Start: 36182, Stop: 37180, Start Num: 59

Candidate Starts for Stuff_50:

(6, 35945), (7, 35951), (12, 36023), (Start: 59 @36182 has 11 MA's), (104, 36347), (110, 36371), (149, 36479), (154, 36512), (160, 36536), (182, 36626), (184, 36632), (187, 36644), (188, 36647), (202, 36716), (236, 36806), (267, 36902), (305, 37013), (358, 37157),

Gene: Sucha_40 Start: 25225, Stop: 26232, Start Num: 28

Candidate Starts for Sucha_40:

(Start: 28 @25225 has 22 MA's), (104, 25435), (157, 25582), (169, 25645), (202, 25789), (207, 25801), (233, 25864), (246, 25891), (250, 25897), (282, 25981), (286, 25996), (309, 26071), (338, 26158),

Gene: SummitAcademy_42 Start: 31170, Stop: 30112, Start Num: 64

Candidate Starts for SummitAcademy_42:

(Start: 64 @31170 has 11 MA's), (98, 31044), (103, 31017), (112, 30993), (124, 30960), (138, 30927), (154, 30882), (176, 30780), (198, 30699), (222, 30621), (243, 30573), (247, 30561), (269, 30480), (296, 30411), (298, 30405), (300, 30396), (311, 30360), (316, 30345), (343, 30258), (354, 30216), (357, 30204), (359, 30198), (361, 30183),

Gene: Supakev_39 Start: 27504, Stop: 28451, Start Num: 70

Candidate Starts for Supakev_39:

(Start: 70 @27504 has 23 MA's), (86, 27570), (108, 27669), (116, 27693), (144, 27759), (154, 27807), (160, 27831), (165, 27861), (169, 27879), (171, 27891), (181, 27933), (221, 28071), (229, 28092), (231, 28095), (313, 28302), (338, 28377), (339, 28380), (351, 28407), (352, 28410),

Gene: Suppi_41 Start: 27580, Stop: 28527, Start Num: 65

Candidate Starts for Suppi_41:

(Start: 65 @27580 has 78 MA's), (103, 27724), (104, 27727), (107, 27742), (116, 27769), (142, 27832), (147, 27847), (157, 27895), (165, 27940), (168, 27952), (172, 27976), (201, 28102), (229, 28171), (231, 28174), (292, 28318), (313, 28378), (338, 28453), (339, 28456), (351, 28483), (352, 28486),

Gene: Survivors_39 Start: 29605, Stop: 28574, Start Num: 65

Candidate Starts for Survivors_39:

(Start: 65 @29605 has 78 MA's), (79, 29566), (90, 29509), (103, 29452), (120, 29422), (151, 29356), (154, 29335), (176, 29233), (188, 29203), (194, 29176), (207, 29128), (216, 29098), (275, 28933), (306, 28837), (311, 28819), (316, 28804),

Gene: Suzy_54 Start: 41757, Stop: 42902, Start Num: 71

Candidate Starts for Suzy_54:

(Start: 71 @41757 has 6 MA's), (74, 41766), (104, 41904), (160, 42081), (166, 42114), (230, 42360), (232, 42363), (235, 42369), (243, 42384), (254, 42420), (273, 42495), (275, 42504), (288, 42552), (299, 42582), (300, 42588), (311, 42618), (322, 42651), (329, 42669), (331, 42675), (355, 42756), (361, 42786), (362, 42798), (370, 42861),

Gene: SweatNTears_42 Start: 29688, Stop: 28657, Start Num: 72

Candidate Starts for SweatNTears_42:

(15, 29856), (20, 29817), (Start: 33 @29763 has 1 MA's), (54, 29724), (60, 29712), (Start: 72 @29688 has 30 MA's), (132, 29493), (154, 29430), (186, 29304), (198, 29247), (216, 29193), (232, 29142), (280, 29013), (283, 29004), (286, 28992), (300, 28947), (306, 28929), (311, 28911), (343, 28809),

Gene: TMaxx_38 Start: 25180, Stop: 24239, Start Num: 69

Candidate Starts for TMaxx_38:

(Start: 69 @25180 has 11 MA's), (152, 24883), (154, 24871), (204, 24664), (209, 24643), (234, 24586), (239, 24577), (244, 24565), (272, 24472), (287, 24415), (308, 24352), (311, 24343), (330, 24289),

Gene: Talia1610_103 Start: 82860, Stop: 83831, Start Num: 49

Candidate Starts for Talia1610_103:

(Start: 49 @82860 has 10 MA's), (63, 82884), (Start: 75 @82905 has 5 MA's), (97, 83004), (99, 83019), (104, 83043), (115, 83076), (154, 83193), (159, 83208), (179, 83304), (182, 83313), (207, 83418), (210, 83433), (212, 83442), (244, 83517), (258, 83559), (272, 83610), (279, 83631), (311, 83739), (321, 83769),

Gene: Tarnish_43 Start: 31680, Stop: 30622, Start Num: 64

Candidate Starts for Tarnish_43:

(53, 31704), (Start: 64 @31680 has 11 MA's), (98, 31554), (112, 31503), (120, 31479), (124, 31470), (138, 31437), (154, 31392), (176, 31290), (198, 31209), (222, 31131), (243, 31083), (269, 30990), (285, 30954), (296, 30921), (298, 30915), (300, 30906), (311, 30870), (312, 30867), (316, 30855), (354, 30726), (357, 30714), (359, 30708), (361, 30693),

Gene: TattModd_40 Start: 27321, Stop: 28268, Start Num: 65

Candidate Starts for TattModd_40:

(Start: 65 @27321 has 78 MA's), (87, 27390), (100, 27453), (103, 27465), (104, 27468), (110, 27492), (147, 27588), (157, 27636), (163, 27666), (168, 27693), (169, 27699), (185, 27765), (231, 27915), (236, 27924), (279, 28011), (292, 28059), (313, 28119), (338, 28194), (339, 28197), (351, 28224),

(352, 28227),

Gene: Temper16_39 Start: 27511, Stop: 28464, Start Num: 70

Candidate Starts for Temper16_39:

(Start: 70 @27511 has 23 MA's), (84, 27568), (104, 27658), (108, 27676), (144, 27766), (154, 27817), (163, 27856), (165, 27871), (169, 27889), (171, 27901), (183, 27949), (211, 28066), (229, 28105), (236, 28117), (313, 28315), (338, 28390), (351, 28420), (352, 28423),

Gene: Terapin_55 Start: 40488, Stop: 41633, Start Num: 71

Candidate Starts for Terapin_55:

(Start: 38 @40428 has 4 MA's), (Start: 71 @40488 has 6 MA's), (74, 40497), (104, 40635), (114, 40659), (160, 40812), (166, 40845), (230, 41091), (232, 41094), (235, 41100), (243, 41115), (275, 41235), (288, 41283), (299, 41313), (300, 41319), (311, 41349), (322, 41382), (329, 41400), (331, 41406), (355, 41487), (361, 41517), (362, 41529), (370, 41592),

Gene: Theresita_43 Start: 26461, Stop: 27471, Start Num: 28

Candidate Starts for Theresita_43:

(Start: 28 @26461 has 22 MA's), (103, 26668), (104, 26671), (157, 26821), (193, 26989), (207, 27040), (226, 27094), (282, 27220), (295, 27265), (310, 27313), (324, 27355), (338, 27397), (351, 27427), (356, 27448),

Gene: Tolls_42 Start: 29711, Stop: 28677, Start Num: 72

Candidate Starts for Tolls_42:

(Start: 72 @29711 has 30 MA's), (88, 29636), (132, 29516), (154, 29453), (176, 29351), (216, 29216), (280, 29036), (283, 29027), (300, 28970), (306, 28952), (311, 28934), (337, 28850),

Gene: TripleC_38 Start: 27531, Stop: 26590, Start Num: 69

Candidate Starts for TripleC_38:

(Start: 69 @27531 has 11 MA's), (122, 27330), (154, 27222), (204, 27015), (209, 26994), (239, 26928), (244, 26916), (272, 26823), (284, 26784), (287, 26766), (308, 26703), (311, 26694), (330, 26640),

Gene: Triscuit_78 Start: 48360, Stop: 49469, Start Num: 34

Candidate Starts for Triscuit_78:

(Start: 34 @48360 has 2 MA's), (Start: 50 @48390 has 3 MA's), (79, 48456), (84, 48483), (138, 48639), (152, 48672), (158, 48696), (193, 48837), (311, 49218), (315, 49230), (316, 49233), (318, 49236), (319, 49239), (326, 49263), (340, 49302), (346, 49317), (357, 49365), (360, 49377),

Gene: Troje_43 Start: 30162, Stop: 29134, Start Num: 72

Candidate Starts for Troje_43:

(20, 30291), (27, 30261), (Start: 44 @30207 has 2 MA's), (52, 30198), (Start: 72 @30162 has 30 MA's), (132, 29967), (154, 29904), (186, 29778), (191, 29754), (216, 29667), (232, 29616), (280, 29487), (300, 29421), (306, 29403), (311, 29385), (337, 29301), (361, 29208),

Gene: TurboVicky_43 Start: 27685, Stop: 28698, Start Num: 28

Candidate Starts for TurboVicky_43:

(Start: 28 @27685 has 22 MA's), (86, 27814), (104, 27895), (129, 27964), (157, 28048), (173, 28132), (187, 28183), (201, 28252), (202, 28255), (246, 28357), (250, 28363), (282, 28447), (286, 28462), (301, 28513), (317, 28561), (338, 28624),

Gene: Typher_45 Start: 27803, Stop: 28816, Start Num: 28

Candidate Starts for Typher_45:

(Start: 28 @27803 has 22 MA's), (86, 27932), (104, 28013), (129, 28082), (157, 28166), (173, 28250), (187, 28301), (201, 28370), (202, 28373), (246, 28475), (250, 28481), (282, 28565), (286, 28580),

(301, 28631), (317, 28679), (338, 28742),

Gene: Typhonomachy_40 Start: 29500, Stop: 28469, Start Num: 72

Candidate Starts for Typhonomachy_40:

(Start: 72 @29500 has 30 MA's), (103, 29359), (154, 29242), (166, 29185), (186, 29116), (194, 29083), (216, 29005), (232, 28954), (300, 28759), (306, 28741), (311, 28723), (337, 28639), (343, 28621),

Gene: UNTPL_52 Start: 36210, Stop: 37214, Start Num: 55

Candidate Starts for UNTPL_52:

(3, 35823), (6, 35979), (12, 36057), (Start: 55 @36210 has 4 MA's), (Start: 59 @36216 has 11 MA's), (104, 36381), (110, 36405), (149, 36513), (154, 36546), (160, 36570), (171, 36630), (182, 36660), (184, 36666), (187, 36678), (188, 36681), (191, 36705), (194, 36714), (202, 36750), (236, 36840), (267, 36936), (301, 37035), (302, 37038), (305, 37047), (358, 37191),

Gene: Urla_40 Start: 27482, Stop: 28432, Start Num: 65

Candidate Starts for Urla_40:

(Start: 65 @27482 has 78 MA's), (100, 27614), (103, 27626), (104, 27629), (107, 27644), (110, 27653), (147, 27749), (157, 27797), (160, 27812), (168, 27854), (172, 27878), (185, 27926), (187, 27935), (221, 28052), (231, 28079), (236, 28088), (313, 28283), (323, 28313), (338, 28358), (339, 28361), (351, 28388), (352, 28391),

Gene: Vallejo_42 Start: 27675, Stop: 28622, Start Num: 65

Candidate Starts for Vallejo_42:

(Start: 65 @27675 has 78 MA's), (87, 27744), (100, 27807), (103, 27819), (104, 27822), (110, 27846), (147, 27942), (157, 27990), (163, 28020), (168, 28047), (185, 28119), (231, 28269), (236, 28278), (279, 28365), (292, 28413), (313, 28473), (338, 28548), (339, 28551), (351, 28578), (352, 28581),

Gene: Vine_45 Start: 31897, Stop: 30839, Start Num: 64

Candidate Starts for Vine_45:

(53, 31921), (Start: 64 @31897 has 11 MA's), (98, 31771), (112, 31720), (120, 31696), (124, 31687), (138, 31654), (154, 31609), (176, 31507), (198, 31426), (222, 31348), (243, 31300), (269, 31207), (285, 31171), (296, 31138), (298, 31132), (300, 31123), (304, 31108), (311, 31087), (316, 31072), (354, 30943), (357, 30931), (359, 30925), (361, 30910),

Gene: Vulture_39 Start: 27432, Stop: 28382, Start Num: 70

Candidate Starts for Vulture_39:

(Start: 33 @27378 has 1 MA's), (Start: 70 @27432 has 23 MA's), (104, 27579), (108, 27597), (144, 27687), (154, 27738), (163, 27777), (165, 27792), (169, 27810), (171, 27822), (183, 27870), (211, 27987), (229, 28026), (236, 28038), (279, 28125), (292, 28173), (313, 28233), (338, 28308), (339, 28311), (351, 28338), (352, 28341),

Gene: WaddleDee_90 Start: 78467, Stop: 79393, Start Num: 75

Candidate Starts for WaddleDee_90:

(63, 78446), (Start: 75 @78467 has 5 MA's), (90, 78542), (99, 78581), (154, 78755), (159, 78770), (172, 78845), (181, 78872), (182, 78875), (188, 78896), (199, 78959), (207, 78980), (210, 78995), (213, 79007), (272, 79172), (279, 79193), (308, 79292), (311, 79301), (321, 79331),

Gene: Wallaby_41 Start: 29706, Stop: 28675, Start Num: 65

Candidate Starts for Wallaby_41:

(Start: 65 @29706 has 78 MA's), (79, 29667), (90, 29610), (103, 29553), (120, 29523), (151, 29457), (154, 29436), (176, 29334), (188, 29304), (194, 29277), (207, 29229), (216, 29199), (275, 29034), (306, 28938), (311, 28920), (316, 28905),

Gene: Wawa_41 Start: 27508, Stop: 28455, Start Num: 65

Candidate Starts for Wawa_41:

(Start: 65 @27508 has 78 MA's), (100, 27640), (103, 27652), (104, 27655), (110, 27679), (147, 27775), (157, 27823), (163, 27853), (168, 27880), (185, 27952), (231, 28102), (236, 28111), (279, 28198), (292, 28246), (313, 28306), (338, 28381), (339, 28384), (351, 28411), (352, 28414),

Gene: Wayne_41 Start: 27626, Stop: 28573, Start Num: 65

Candidate Starts for Wayne_41:

(Start: 65 @27626 has 78 MA's), (103, 27770), (104, 27773), (107, 27788), (116, 27815), (142, 27878), (147, 27893), (157, 27941), (165, 27986), (168, 27998), (172, 28022), (201, 28148), (229, 28217), (231, 28220), (292, 28364), (313, 28424), (338, 28499), (339, 28502), (351, 28529), (352, 28532),

Gene: Wolfwood_39 Start: 29677, Stop: 28646, Start Num: 65

Candidate Starts for Wolfwood_39:

(Start: 65 @29677 has 78 MA's), (79, 29638), (90, 29581), (103, 29524), (120, 29494), (151, 29428), (154, 29407), (176, 29305), (188, 29275), (194, 29248), (207, 29200), (216, 29170), (275, 29005), (306, 28909), (311, 28891), (316, 28876),

Gene: WonderBoy_38 Start: 26303, Stop: 27253, Start Num: 65

Candidate Starts for WonderBoy_38:

(Start: 65 @26303 has 78 MA's), (100, 26435), (103, 26447), (104, 26450), (110, 26474), (147, 26570), (157, 26618), (160, 26633), (168, 26675), (172, 26699), (183, 26741), (185, 26747), (221, 26873), (229, 26897), (231, 26900), (236, 26909), (292, 27044), (313, 27104), (338, 27179), (351, 27209), (352, 27212),

Gene: Yakult_43 Start: 30412, Stop: 29396, Start Num: 72

Candidate Starts for Yakult_43:

(Start: 72 @30412 has 30 MA's), (Start: 78 @30397 has 3 MA's), (103, 30271), (120, 30241), (154, 30154), (166, 30097), (176, 30052), (186, 30028), (188, 30022), (214, 29923), (216, 29917), (222, 29893), (232, 29866), (296, 29689), (300, 29674), (315, 29626), (334, 29566), (343, 29536),

Gene: Yarn_38 Start: 29471, Stop: 28437, Start Num: 72

Candidate Starts for Yarn_38:

(Start: 72 @29471 has 30 MA's), (132, 29276), (154, 29213), (176, 29111), (216, 28976), (280, 28796), (283, 28787), (300, 28730), (306, 28712), (311, 28694), (337, 28610),

Gene: Yucky_45 Start: 31828, Stop: 30779, Start Num: 70

Candidate Starts for Yucky_45:

(Start: 70 @31828 has 23 MA's), (98, 31711), (112, 31660), (120, 31636), (124, 31627), (138, 31594), (154, 31549), (176, 31447), (198, 31366), (222, 31288), (243, 31240), (269, 31147), (285, 31111), (296, 31078), (298, 31072), (300, 31063), (304, 31048), (311, 31027), (312, 31024), (316, 31012), (354, 30883), (357, 30871), (359, 30865), (361, 30850),

Gene: Yummy_43 Start: 29799, Stop: 28771, Start Num: 72

Candidate Starts for Yummy_43:

(13, 29973), (20, 29928), (Start: 72 @29799 has 30 MA's), (132, 29604), (154, 29541), (186, 29415), (198, 29358), (216, 29304), (232, 29253), (280, 29124), (283, 29115), (286, 29103), (300, 29058), (306, 29040), (311, 29022), (343, 28920), (361, 28845),

Gene: Zanella_42 Start: 27511, Stop: 28524, Start Num: 28

Candidate Starts for Zanella_42:

(Start: 28 @27511 has 22 MA's), (104, 27721), (129, 27790), (157, 27874), (173, 27958), (187, 28009), (201, 28078), (202, 28081), (246, 28183), (250, 28189), (282, 28273), (286, 28288), (301, 28339),

(317, 28387), (338, 28450),

Gene: Zareef_39 Start: 29699, Stop: 28668, Start Num: 65

Candidate Starts for Zareef_39:

(Start: 65 @29699 has 78 MA's), (79, 29660), (90, 29603), (103, 29546), (120, 29516), (151, 29450), (154, 29429), (176, 29327), (188, 29297), (194, 29270), (207, 29222), (216, 29192), (275, 29027), (306, 28931), (311, 28913), (316, 28898),

Gene: Zooman_97 Start: 74278, Stop: 73343, Start Num: 61

Candidate Starts for Zooman_97:

(Start: 61 @74278 has 6 MA's), (90, 74176), (91, 74173), (94, 74161), (101, 74125), (121, 74071), (148, 74020), (152, 73993), (154, 73981), (171, 73897), (174, 73891), (179, 73876), (186, 73852), (205, 73765), (212, 73735), (278, 73552), (279, 73549), (290, 73504), (312, 73438), (321, 73411),

Gene: Zorro_42 Start: 27635, Stop: 28582, Start Num: 65

Candidate Starts for Zorro_42:

(Start: 65 @27635 has 78 MA's), (100, 27767), (103, 27779), (104, 27782), (110, 27806), (147, 27902), (157, 27950), (163, 27980), (168, 28007), (185, 28079), (231, 28229), (236, 28238), (279, 28325), (292, 28373), (313, 28433), (338, 28508), (351, 28538), (352, 28541),

Gene: Zuko_80 Start: 60584, Stop: 61708, Start Num: 43

Candidate Starts for Zuko_80:

(5, 60317), (17, 60494), (Start: 43 @60584 has 2 MA's), (74, 60641), (77, 60647), (79, 60662), (130, 60851), (154, 60917), (158, 60929), (166, 60974), (168, 60983), (176, 61025), (185, 61043), (186, 61049), (188, 61055), (194, 61082), (206, 61127), (225, 61196), (230, 61208), (245, 61238), (296, 61415), (303, 61442), (311, 61466), (336, 61541), (350, 61574), (353, 61592), (357, 61610),