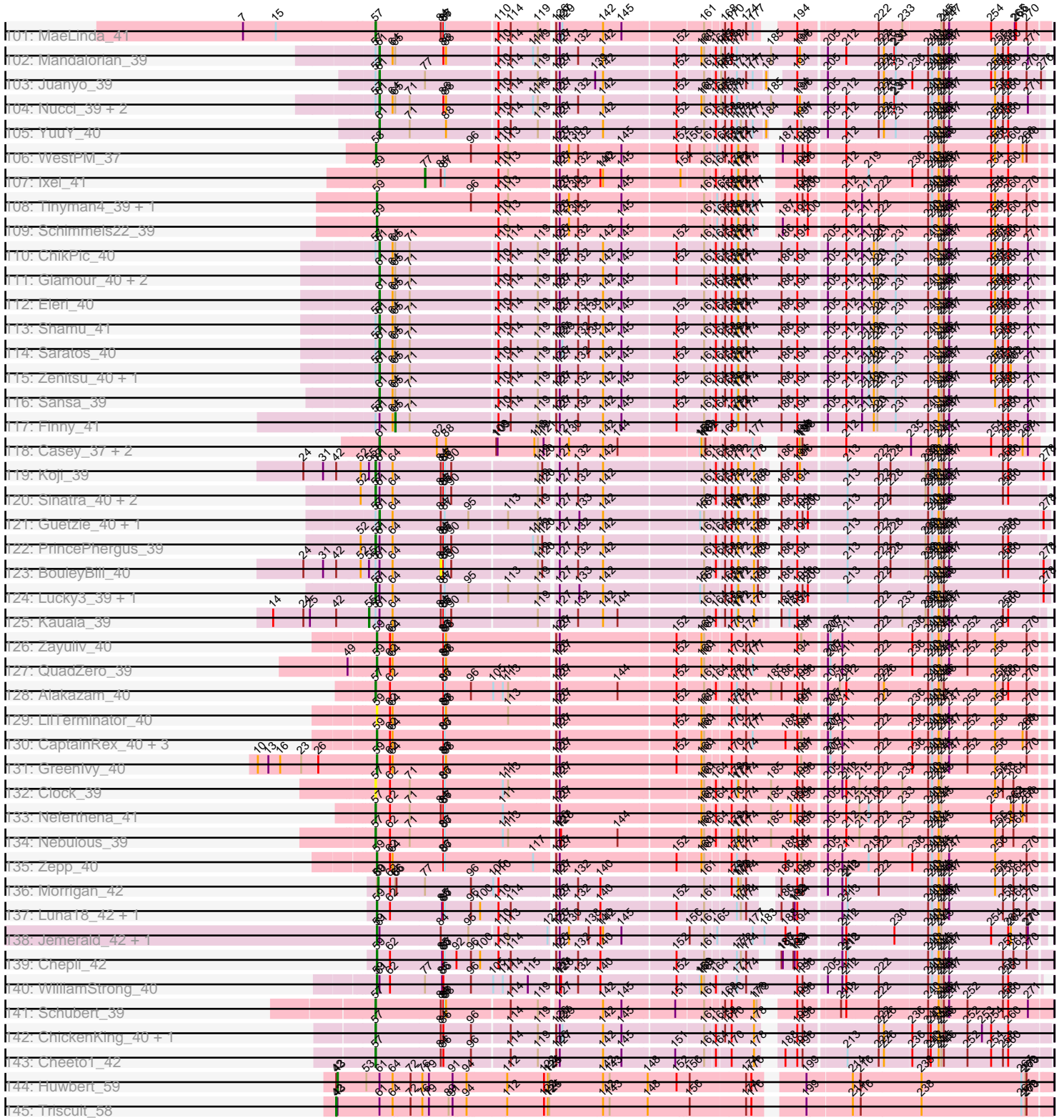


Pham 169672



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 169672 Report

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

Pham number 169672 has 256 members, 31 are drafts.

Phages represented in each track:

- Track 1 : Maco6_48, Muddy_50
- Track 2 : FF47_48, 8UZL_50
- Track 3 : NoShow_58
- Track 4 : JacoRen57_46
- Track 5 : KimJongPhill_74
- Track 6 : Zuko_72
- Track 7 : HippoPololi_50
- Track 8 : Cleo_47
- Track 9 : Biskit_55, SketchMex_53
- Track 10 : Survivors_49
- Track 11 : BigChungus_56, Feastonyeet_56
- Track 12 : SummitAcademy_56
- Track 13 : SheckWes_60
- Track 14 : Troje_55, Buttrmlkdreams_55
- Track 15 : Fribs8_48
- Track 16 : BillDoor_53
- Track 17 : Sopespian_50, GoldHunter_54, PsychoKiller_52, Axym_52, Burnsey_53, Elliott_53
- Track 18 : Mayweather_61
- Track 19 : RedBaron_56
- Track 20 : Dre3_48, Gibbous_48
- Track 21 : Nibbles_48
- Track 22 : Yarn_50, AndPeggy_50, SteamedHams_54
- Track 23 : GTE2_44
- Track 24 : KayGee_57, Elinal_60
- Track 25 : MScarn_57
- Track 26 : Margaret_58
- Track 27 : Emalyn_52
- Track 28 : Orla_60
- Track 29 : Horseradish_55, Yummy_55
- Track 30 : Quasar_53, Agatha_53
- Track 31 : Lauer_52
- Track 32 : MaVan_49, Azira_49
- Track 33 : Yakult_55
- Track 34 : Cozz_51
- Track 35 : Amok_54
- Track 36 : GiKK_57

- Track 37 : MunkgeeRoachy_54
- Track 38 : Hexbug_60
- Track 39 : AikoCarson_54
- Track 40 : Nina_53, SweatNTears_55
- Track 41 : Pons_58
- Track 42 : Vine_59, PotPie_56
- Track 43 : CherryonLim_57
- Track 44 : Nodigi_60
- Track 45 : MAnor_58
- Track 46 : Button_57
- Track 47 : Tolls_54
- Track 48 : Typhonomachy_53
- Track 49 : Zareef_51
- Track 50 : Jamzy_58
- Track 51 : Mercedes_36
- Track 52 : StingRay_40
- Track 53 : Rihhil_41, Robinson_41, Figueroism_41, AlexAdler_41, Janus167_40
- Track 54 : Den3_41, BonesMcCoy_41, Vispistious_42, Oxtober96_42, Convict_41, WildNOut_41, Velene_41, Teagan_41, PuppyEggo_41, Greys_41, Knox_41, Lovelyunicorn_41, Strathdee_41, AxiPup_41
- Track 55 : Dothraki_41
- Track 56 : Raptor_41, Erla_40, Renzie_41, Baines_40, Dave_41, Bonino_40, Superfresh_41, Calix_40, Antoinette_41, Etta_40, Gelo_40, Ludgate_41
- Track 57 : Aubergine_40, JeriBeth_42, Espinosa_40, Christoph_40, Tenda_40, ManRay_40
- Track 58 : Peppino_40, Balsa_40
- Track 59 : KingJulien_40
- Track 60 : HankSprout_41
- Track 61 : Martin_42, Kurt1_41, TatarkaPM_41, NickSell_43, Inventa_41, Rappheph_41, ParleG_41, MillyPhilly_41, Phiderman_41, MrWorldwide_41, Pherferi_41, Shee_41, PhredFlintston_41, TinSulphur_42
- Track 62 : McGalleon_43
- Track 63 : Garey24_41
- Track 64 : Kale_40
- Track 65 : Bandik_41, Stanktossa_41, Byron23_42
- Track 66 : Thorongil_41
- Track 67 : Redfield_40, Schnapsidee_40
- Track 68 : SJay_41, Nagem_41
- Track 69 : StirfryIV_42, Benjalauren_41, Chako_40, Rog141_40, Ilzat_40, Gubbabump_40, KannH_40, Clancy_40, HungryHenry_40, Gargoyle_41, Jerbirus_42
- Track 70 : BeeBee8_41
- Track 71 : TeddyBear_40, Asta_40, Nattles_40, Gershwin_40, Oats_40
- Track 72 : Papafritta_40
- Track 73 : Ioannes_41
- Track 74 : BigRedClifford_41, Blage_41
- Track 75 : Peep_41
- Track 76 : BeautPeep30_41, Phireproof_41
- Track 77 : Duocatuli_40
- Track 78 : Thompsone_41
- Track 79 : Jenos_44
- Track 80 : SoilGremlin_42, OldNelly_42, Delphidian_43, Phriends_41
- Track 81 : GardenB_40
- Track 82 : Pocket_40, Chamuel_40, Klimt_41, SonOfLevi_41

- Track 83 : Acosta_42
- Track 84 : Raccoon_40, Hamlet_40
- Track 85 : FarmerDoug_40
- Track 86 : AranulaLuti_40
- Track 87 : HanSolo_40
- Track 88 : Alyxandracam_41
- Track 89 : Endor_41
- Track 90 : Etna_40
- Track 91 : Stormbreaker8_40
- Track 92 : Zada_42
- Track 93 : Sedgewig_40
- Track 94 : Agente005_41
- Track 95 : JasonD_45
- Track 96 : MonChoix_39
- Track 97 : ShaiHulud_42
- Track 98 : JasperRussell_40
- Track 99 : Winzigespinne_40
- Track 100 : Leafus_40
- Track 101 : MaeLinda_41
- Track 102 : Mandalorian_39
- Track 103 : Juanyo_39
- Track 104 : Nucci_39, Carostasia_39, Quartz_40
- Track 105 : YuuY_40
- Track 106 : WestPM_37
- Track 107 : Ixel_41
- Track 108 : Tinyman4_39, HerculesXL_40
- Track 109 : Schimmels22_39
- Track 110 : ChikPic_40
- Track 111 : Glamour_40, ColaCorta_40, Andromedas_40
- Track 112 : Eleri_40
- Track 113 : Shamu_41
- Track 114 : Saratos_40
- Track 115 : Zenitsu_40, MCubed_40
- Track 116 : Sansa_39
- Track 117 : Finny_41
- Track 118 : Casey_37, Pajaza_37, Pikmin_37
- Track 119 : Koji_39
- Track 120 : Sinatra_40, Bustleton_39, Pherbot_39
- Track 121 : Guetzie_40, SirVictor_40
- Track 122 : PrincePhergus_39
- Track 123 : BouleyBill_40
- Track 124 : Lucky3_39, Golden_39
- Track 125 : Kauala_39
- Track 126 : Zayuliv_40
- Track 127 : QuadZero_39
- Track 128 : Alakazam_40
- Track 129 : LilTerminator_40
- Track 130 : CaptainRex_40, Librie_40, Fulton_40, Hasitha_40
- Track 131 : GreenIvy_40
- Track 132 : Clock_39
- Track 133 : Neferthena_41
- Track 134 : Nebulous_39
- Track 135 : Zepp_40

- Track 136 : Morrigan_42
- Track 137 : Luna18_42, KatChan_42
- Track 138 : Jemerald_42, Juicer_42
- Track 139 : Chepli_42
- Track 140 : WilliamStrong_40
- Track 141 : Schubert_39
- Track 142 : ChickenKing_40, GaeCeo_42
- Track 143 : Cheeto1_42
- Track 144 : Huwburt_59
- Track 145 : Triscuit_58

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

The start number called the most often in the published annotations is 57, it was called in 123 of the 225 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_42, Agente005_41, Alakazam_40, AlexAdler_41, Alyxandracam_41, Antoinette_41, AranulaLuti_40, Asta_40, Aubergine_40, AxiPup_41, Baines_40, Balsa_40, Bandik_41, BeautPeep30_41, BeeBee8_41, Benjalauren_41, BigRedClifford_41, Blage_41, BonesMcCoy_41, Bonino_40, Bustleton_39, Byron23_42, Calix_40, Chako_40, Chamuel_40, Cheeto1_42, ChickenKing_40, Christoph_40, Clancy_40, Clock_39, Convict_41, Dave_41, Delphidian_43, Den3_41, Dothraki_41, Duocatuli_40, Endor_41, Erla_40, Espinosa_40, Etna_40, Etta_40, FarmerDoug_40, Figueroism_41, GaeCeo_42, GardenB_40, Garey24_41, Gargoyle_41, Gelo_40, Gershwin_40, Golden_39, Greys_41, Gubbabump_40, Hamlet_40, HanSolo_40, HankSprout_41, HungryHenry_40, Ilzat_40, Inventa_41, Ioannes_41, Janus167_40, JasonD_45, JasperRussell_40, Jerbirus_42, JeriBeth_42, Kale_40, KannH_40, Klimt_41, Knox_41, Koji_39, Kurt1_41, Leafus_40, Lovelyunicorn_41, Lucky3_39, Ludgate_41, MaeLinda_41, ManRay_40, Martin_42, MillyPhilly_41, MonChoix_39, MrWorldwide_41, Nagem_41, Nattles_40, Nebulous_39, Neferthena_41, NickSell_43, Oats_40, OldNelly_42, Oxtober96_42, Papafritta_40, ParleG_41, Peep_41, Peppino_40, Pherbot_39, Pherferi_41, Phiderman_41, Phireproof_41, PhredFlintston_41, Phriends_41, Pocket_40, PrincePhergus_39, PuppyEggo_41, Raccoon_40, Rapheph_41, Raptor_41, Redfield_40, Renzie_41, Riyhil_41, Robinson_41, Rog141_40, SJay_41, Schnapsidee_40, Schubert_39, Sedgewig_40, ShaiHulud_42, Shee_41, Sinatra_40, SoilGremlin_42, SonOfLevi_41, Stanktossa_41, StingRay_40, StirfryIV_42, Stormbreaker8_40, Strathdee_41, Superfresh_41, TatarkaPM_41, Teagan_41, TeddyBear_40, Tenda_40, Thompsone_41, Thorongil_41, TinSulphur_42, Velene_41, Vispistious_42, WildNOut_41, Winzigespinne_40, Zada_42,

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

- BouleyBill_40, Carostasia_39, ChikPic_40, Finny_41, Guetzie_40, Juanyo_39, Kauala_39, KingJulien_40, MCubed_40, Mandalorian_39, Nucci_39, Quartz_40, Saratos_40, Shamu_41, SirVictor_40, Zenitsu_40,

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

- 8UZL_50, Agatha_53, AikoCarson_54, Amok_54, AndPeggy_50, Andromedas_40, Axym_52, Azira_49, BigChungus_56, BillDoor_53, Biskit_55, Burnsey_53, Button_57,

Buttrmlkdreams_55, CaptainRex_40, Casey_37, Chepli_42, CherryonLim_57, Cleo_47, ColaCorta_40, Cozz_51, Dre3_48, Eleri_40, Elinal_60, Elliott_53, Emalyn_52, FF47_48, Feastonyeet_56, Fribs8_48, Fulton_40, GTE2_44, GiKK_57, Gibbous_48, Glamour_40, GoldHunter_54, Greenlvy_40, Hasitha_40, HerculesXL_40, Hexbug_60, HippoPololi_50, Horseradish_55, Huwburt_59, Ixel_41, JacoRen57_46, Jamzy_58, Jemerald_42, Jenos_44, Juicer_42, KatChan_42, KayGee_57, KimJongPhill_74, Lauer_52, Librie_40, LilTerminator_40, Luna18_42, MAnor_58, MScarn_57, MaVan_49, Maco6_48, Margaret_58, Mayweather_61, McGalleon_43, Mercedes_36, Morrigan_42, Muddy_50, MunkgeeRoachy_54, Nibbles_48, Nina_53, NoShow_58, Nodigi_60, Orla_60, Pajaza_37, Pikmin_37, Pons_58, PotPie_56, PsychoKiller_52, QuadZero_39, Quasar_53, RedBaron_56, Sansa_39, Schimmels22_39, SheckWes_60, SketchMex_53, Sopesian_50, SteamedHams_54, SummitAcademy_56, Survivors_49, SweatNTears_55, Tinyman4_39, Tolls_54, Triscuit_58, Troje_55, Typhonmacy_53, Vine_59, WestPM_37, WilliamStrong_40, Yakult_55, Yarn_50, Yummy_55, YuuY_40, Zareef_51, Zayuliv_40, Zepp_40, Zuko_72,

Summary by start number:

Start 29:

- Found in 4 of 256 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 8UZL_50 (AB), FF47_48 (AB), Maco6_48 (AB), Muddy_50 (AB),

Start 36:

- Found in 2 of 256 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_74 (BR), Zuko_72 (BR),

Start 41:

- Found in 1 of 256 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedBaron_56 (CT),

Start 42:

- Found in 5 of 256 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Triscuit_58 (GG),

Start 43:

- Found in 38 of 256 (14.8%) of genes in pham
- Manual Annotations of this start: 29 of 225
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Agatha_53 (CT), AikoCarson_54 (CT), Amok_54 (CT), AndPeggy_50 (CT), Axym_52 (CT), Azira_49 (CT), BillDoor_53 (CT), Biskit_55 (CT), Burnsey_53 (CT), Buttrmlkdreams_55 (CT), Cleo_47 (CT), Cozz_51 (CT), Elliott_53 (CT), Emalyn_52 (CT), GoldHunter_54 (CT), HippoPololi_50 (CT), Horseradish_55 (CT), Huwburt_59 (GG), MScarn_57 (CT), MaVan_49 (CT),

MunkgeeRoachy_54 (CT), Nibbles_48 (CT), Nina_53 (CT), PsychoKiller_52 (CT), Quasar_53 (CT), SketchMex_53 (CT), Sopespian_50 (CT), SteamedHams_54 (CT), Survivors_49 (CT), SweatNTears_55 (CT), Tolls_54 (CT), Troje_55 (CT), Typhonomachy_53 (CT), Yarn_50 (CT), Yummy_55 (CT), Zareef_51 (CT),

Start 44:

- Found in 3 of 256 (1.2%) of genes in pham
- Manual Annotations of this start: 3 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dre3_48 (CT), Fribs8_48 (CT), Gibbous_48 (CT),

Start 46:

- Found in 22 of 256 (8.6%) of genes in pham
- Manual Annotations of this start: 18 of 225
- Called 90.9% of time when present
- Phage (with cluster) where this start called: BigChungus_56 (CT), Button_57 (CT), CherryonLim_57 (CT), Elinal_60 (CT), Feastonyeet_56 (CT), GiKK_57 (CT), Hexbug_60 (CT), Jamzy_58 (CT), KayGee_57 (CT), Lauer_52 (CT), MAnor_58 (CT), Margaret_58 (CT), Nodigi_60 (CT), Orla_60 (CT), Pons_58 (CT), PotPie_56 (CT), SheckWes_60 (CT), SummitAcademy_56 (CT), Vine_59 (CT), Yakult_55 (CT),

Start 47:

- Found in 2 of 256 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_46 (AB), NoShow_58 (AB),

Start 55:

- Found in 3 of 256 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Kauala_39 (EA4),

Start 57:

- Found in 152 of 256 (59.4%) of genes in pham
- Manual Annotations of this start: 123 of 225
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Acosta_42 (EA1), Agente005_41 (EA1), Alakazam_40 (EA5), AlexAdler_41 (EA1), Alyxandracam_41 (EA1), Antoinette_41 (EA1), AranulaLuti_40 (EA1), Asta_40 (EA1), Aubergine_40 (EA1), AxiPup_41 (EA1), Baines_40 (EA1), Balsa_40 (EA1), Bandik_41 (EA1), BeautPeep30_41 (EA1), BeeBee8_41 (EA1), Benjalaren_41 (EA1), BigRedClifford_41 (EA1), Blage_41 (EA1), BonesMcCoy_41 (EA1), Bonino_40 (EA1), Bustleton_39 (EA4), Byron23_42 (EA1), Calix_40 (EA1), Chako_40 (EA1), Chamuel_40 (EA1), Cheeto1_42 (EA9), ChickenKing_40 (EA9), Christoph_40 (EA1), Clancy_40 (EA1), Clock_39 (EA5), Convict_41 (EA1), Dave_41 (EA1), Delphidian_43 (EA1), Den3_41 (EA1), Dothraki_41 (EA1), Duocatuli_40 (EA1), Endor_41 (EA1), Erla_40 (EA1), Espinosa_40 (EA1), Etna_40 (EA1), Etta_40 (EA1), FarmerDoug_40 (EA1), Figueroism_41 (EA1), GaeCeo_42 (EA9), GardenB_40 (EA1), Garey24_41 (EA1), Gargoyle_41 (EA1), Gelo_40 (EA1), Gershwin_40 (EA1), Golden_39 (EA4), Greys_41 (EA1), Gubbabump_40 (EA1), Hamlet_40 (EA1), HanSolo_40 (EA1), HankSprout_41 (EA1), HungryHenry_40 (EA1), Ilzat_40 (EA1), Inventa_41 (EA1),

Ioannes_41 (EA1), Janus167_40 (EA1), JasonD_45 (EA1), JasperRussell_40 (EA1), Jerbirus_42 (EA1), JeriBeth_42 (EA1), Kale_40 (EA1), KannH_40 (EA1), Klimt_41 (EA1), Knox_41 (EA1), Koji_39 (EA4), Kurt1_41 (EA1), Leafus_40 (EA1), Lovelyunicorn_41 (EA1), Lucky3_39 (EA4), Ludgate_41 (EA1), MaeLinda_41 (EA1), ManRay_40 (EA1), Martin_42 (EA1), MillyPhilly_41 (EA1), MonChoix_39 (EA1), MrWorldwide_41 (EA1), Nagem_41 (EA1), Nattles_40 (EA1), Nebulous_39 (EA5), Neferthena_41 (EA5), NickSell_43 (EA1), Oats_40 (EA1), OldNelly_42 (EA1), Oxtober96_42 (EA1), Papafritta_40 (EA1), ParleG_41 (EA1), Peep_41 (EA1), Peppino_40 (EA1), Pherbot_39 (EA4), Pherferi_41 (EA1), Phiderman_41 (EA1), Phireproof_41 (EA1), PhredFlintston_41 (EA1), Phriends_41 (EA1), Pocket_40 (EA1), PrincePhergus_39 (EA4), PuppyEggo_41 (EA1), Raccoon_40 (EA1), Rappheph_41 (EA1), Raptor_41 (EA1), Redfield_40 (EA1), Renzie_41 (EA1), Riyhil_41 (EA1), Robinson_41 (EA1), Rog141_40 (EA1), SJay_41 (EA1), Schnapsidee_40 (EA1), Schubert_39 (EA8), Sedgewig_40 (EA1), ShaiHulud_42 (EA1), Shee_41 (EA1), Sinatra_40 (EA4), SoilGremlin_42 (EA1), SonOfLevi_41 (EA1), Stanktossa_41 (EA1), StingRay_40 (EA1), StirfryIV_42 (EA1), Stormbreaker8_40 (EA1), Strathdee_41 (EA1), Superfresh_41 (EA1), TatarkaPM_41 (EA1), Teagan_41 (EA1), TeddyBear_40 (EA1), Tenda_40 (EA1), Thompsone_41 (EA1), Thorongil_41 (EA1), TinSulphur_42 (EA1), Velene_41 (EA1), Vispistious_42 (EA1), WildNOut_41 (EA1), Winzigespinne_40 (EA1), Zada_42 (EA1),

Start 58:

- Found in 1 of 256 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WestPM_37 (EA11),

Start 59:

- Found in 60 of 256 (23.4%) of genes in pham
- Manual Annotations of this start: 19 of 225
- Called 35.0% of time when present
- Phage (with cluster) where this start called: CaptainRex_40 (EA5), Chepli_42 (EA6), Fulton_40 (EA5), Greenlvy_40 (EA5), Hasitha_40 (EA5), HerculesXL_40 (EA11), Jemerald_42 (EA6), Jenos_44 (EA1), Juicer_42 (EA6), KatChan_42 (EA6), Librie_40 (EA5), LilTerminator_40 (EA5), Luna18_42 (EA6), McGalleon_43 (EA1), Mercedes_36 (EA), QuadZero_39 (EA5), Schimmels22_39 (EA11), Tinyman4_39 (EA11), WilliamStrong_40 (EA6), Zayuliv_40 (EA5), Zepp_40 (EA5),

Start 60:

- Found in 6 of 256 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Morrigan_42 (EA6),

Start 61:

- Found in 105 of 256 (41.0%) of genes in pham
- Manual Annotations of this start: 20 of 225
- Called 21.0% of time when present
- Phage (with cluster) where this start called: Andromedas_40 (EA2), Carostasia_39 (EA10), Casey_37 (EA3), ChikPic_40 (EA2), ColaCorta_40 (EA2), Eleri_40 (EA2), GTE2_44 (CT), Glamour_40 (EA2), Guetzie_40 (EA4), Juanyo_39 (EA10), MCubed_40 (EA2), Mandalorian_39 (EA10), Nucci_39 (EA10), Pajaza_37 (EA3), Pikmin_37 (EA3), Quartz_40 (EA10), Sansa_39 (EA2), Saratos_40 (EA2), Shamu_41

(EA2), SirVictor_40 (EA4), YuuY_40 (EA10), Zenitsu_40 (EA2),

Start 65:

- Found in 16 of 256 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Finny_41 (EA2),

Start 77:

- Found in 47 of 256 (18.4%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 2.1% of time when present
- Phage (with cluster) where this start called: Ixel_41 (EA11),

Start 84:

- Found in 143 of 256 (55.9%) of genes in pham
- No Manual Annotations of this start.
- Called 0.7% of time when present
- Phage (with cluster) where this start called: BouleyBill_40 (EA4),

Start 86:

- Found in 178 of 256 (69.5%) of genes in pham
- Manual Annotations of this start: 1 of 225
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Mayweather_61 (CT),

Start 96:

- Found in 38 of 256 (14.8%) of genes in pham
- No Manual Annotations of this start.
- Called 2.6% of time when present
- Phage (with cluster) where this start called: KingJulien_40 (EA1),

Summary by clusters:

There are 15 clusters represented in this pham: GG, AB, EA11, EA10, EA6, EA, EA9, EA8, BR, EA1, EA3, EA2, EA5, EA4, CT,

Info for manual annotations of cluster AB:

- Start number 29 was manually annotated 2 times for cluster AB.
- Start number 47 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster BR:

- Start number 36 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CT:

- Start number 43 was manually annotated 28 times for cluster CT.
- Start number 44 was manually annotated 3 times for cluster CT.
- Start number 46 was manually annotated 18 times for cluster CT.
- Start number 86 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster EA:

- Start number 59 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 57 was manually annotated 109 times for cluster EA1.
- Start number 59 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 61 was manually annotated 5 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 58 was manually annotated 1 time for cluster EA11.
- Start number 59 was manually annotated 3 times for cluster EA11.
- Start number 77 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 61 was manually annotated 10 times for cluster EA2.
- Start number 65 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 61 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 55 was manually annotated 1 time for cluster EA4.
- Start number 57 was manually annotated 7 times for cluster EA4.
- Start number 61 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 57 was manually annotated 3 times for cluster EA5.
- Start number 59 was manually annotated 7 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 59 was manually annotated 6 times for cluster EA6.
- Start number 60 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EA8:

- Start number 57 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 57 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster GG:

- Start number 42 was manually annotated 1 time for cluster GG.
- Start number 43 was manually annotated 1 time for cluster GG.

Gene Information:

Gene: 8UZL_50 Start: 38971, Stop: 37460, Start Num: 29

Candidate Starts for 8UZL_50:

(Start: 29 @38971 has 2 MA's), (45, 38935), (Start: 60 @38845 has 1 MA's), (Start: 61 @38842 has 20 MA's), (68, 38794), (81, 38725), (103, 38611), (128, 38482), (135, 38431), (137, 38425), (138, 38419), (140, 38395), (146, 38341), (157, 38200), (158, 38197), (166, 38140), (176, 38068), (177, 38065), (217, 37870), (224, 37825), (240, 37720), (248, 37660), (271, 37492), (274, 37471),

Gene: Acosta_42 Start: 31547, Stop: 30141, Start Num: 57

Candidate Starts for Acosta_42:

(12, 31790), (35, 31649), (37, 31646), (38, 31643), (Start: 57 @31547 has 123 MA's), (84, 31400), (Start: 86 @31394 has 1 MA's), (110, 31277), (114, 31250), (119, 31190), (126, 31163), (127, 31160), (128, 31157), (142, 31064), (145, 31022), (159, 30860), (161, 30851), (164, 30830), (167, 30824), (186, 30731), (194, 30695), (200, 30671), (213, 30596), (233, 30482), (242, 30422), (245, 30398), (246, 30392), (247, 30380), (258, 30257), (265, 30230), (270, 30203),

Gene: Agatha_53 Start: 38842, Stop: 37364, Start Num: 43

Candidate Starts for Agatha_53:

(Start: 43 @38842 has 29 MA's), (Start: 59 @38755 has 19 MA's), (Start: 61 @38749 has 20 MA's), (Start: 77 @38647 has 1 MA's), (101, 38524), (102, 38521), (135, 38338), (137, 38332), (138, 38326), (146, 38248), (153, 38134), (157, 38107), (161, 38083), (170, 38023), (176, 37978), (181, 37957), (190, 37918), (195, 37900), (216, 37783), (224, 37735), (225, 37732), (227, 37717), (243, 37621), (245, 37600), (248, 37570),

Gene: Agente005_41 Start: 31381, Stop: 29990, Start Num: 57

Candidate Starts for Agente005_41:

(Start: 57 @31381 has 123 MA's), (84, 31234), (Start: 86 @31228 has 1 MA's), (87, 31225), (110, 31111), (119, 31024), (126, 30997), (127, 30994), (142, 30898), (145, 30856), (161, 30685), (164, 30664), (170, 30637), (177, 30589), (194, 30529), (233, 30316), (236, 30298), (245, 30232), (246, 30226), (247, 30214), (254, 30118), (265, 30064), (266, 30061), (277, 30007),

Gene: AikoCarson_54 Start: 39107, Stop: 37629, Start Num: 43

Candidate Starts for AikoCarson_54:

(Start: 43 @39107 has 29 MA's), (Start: 59 @39020 has 19 MA's), (Start: 61 @39014 has 20 MA's), (Start: 77 @38912 has 1 MA's), (96, 38813), (99, 38795), (101, 38789), (104, 38780), (127, 38657), (135, 38603), (137, 38597), (138, 38591), (146, 38513), (153, 38399), (157, 38372), (161, 38348), (167, 38309), (173, 38267), (176, 38243), (181, 38222), (195, 38165), (216, 38048), (224, 38000), (225, 37997), (227, 37982), (243, 37886), (245, 37865), (248, 37835), (252, 37805), (271, 37667),

Gene: Alakazam_40 Start: 30804, Stop: 29374, Start Num: 57

Candidate Starts for Alakazam_40:

(Start: 57 @30804 has 123 MA's), (62, 30771), (Start: 86 @30651 has 1 MA's), (87, 30648), (96, 30588), (105, 30537), (111, 30516), (113, 30504), (126, 30411), (127, 30408), (144, 30276), (152, 30153), (161, 30096), (164, 30075), (170, 30048), (171, 30036), (174, 30015), (185, 29958), (186, 29937), (194, 29901), (198, 29889), (205, 29847), (209, 29820), (212, 29805), (222, 29742), (226, 29730), (240, 29634), (243, 29625), (244, 29610), (245, 29604), (246, 29598), (256, 29481), (258, 29463), (260, 29451), (270, 29409),

Gene: AlexAdler_41 Start: 31109, Stop: 29721, Start Num: 57

Candidate Starts for AlexAdler_41:

(15, 31331), (Start: 57 @31109 has 123 MA's), (84, 30965), (Start: 86 @30959 has 1 MA's), (87, 30956), (110, 30842), (114, 30815), (119, 30755), (126, 30728), (127, 30725), (142, 30629), (145, 30587), (161, 30416), (164, 30395), (168, 30380), (170, 30368), (177, 30320), (194, 30260), (212, 30164), (222, 30101), (233, 30047), (245, 29963), (246, 29957), (247, 29945), (254, 29849), (265, 29795), (266, 29792), (270, 29768),

Gene: Alyxandracam_41 Start: 31119, Stop: 29731, Start Num: 57

Candidate Starts for Alyxandracam_41:

(2, 31770), (7, 31416), (15, 31341), (Start: 57 @31119 has 123 MA's), (84, 30975), (Start: 86 @30969 has 1 MA's), (87, 30966), (110, 30852), (114, 30825), (119, 30765), (126, 30738), (127, 30735), (142, 30639), (145, 30597), (161, 30426), (168, 30390), (170, 30378), (174, 30345), (177, 30330), (194,

30270), (212, 30174), (222, 30111), (233, 30057), (245, 29973), (246, 29967), (247, 29955), (254, 29859), (265, 29805), (266, 29802), (270, 29778),

Gene: Amok_54 Start: 39035, Stop: 37557, Start Num: 43

Candidate Starts for Amok_54:

(Start: 43 @39035 has 29 MA's), (Start: 59 @38948 has 19 MA's), (Start: 61 @38942 has 20 MA's), (Start: 77 @38840 has 1 MA's), (Start: 86 @38798 has 1 MA's), (96, 38741), (99, 38723), (101, 38717), (127, 38585), (135, 38531), (137, 38525), (138, 38519), (146, 38441), (153, 38327), (157, 38300), (161, 38276), (167, 38237), (173, 38195), (176, 38171), (181, 38150), (193, 38102), (195, 38093), (216, 37976), (224, 37928), (227, 37910), (243, 37814), (245, 37793), (248, 37763), (252, 37733), (271, 37595),

Gene: AndPeggy_50 Start: 38315, Stop: 36837, Start Num: 43

Candidate Starts for AndPeggy_50:

(Start: 43 @38315 has 29 MA's), (Start: 61 @38222 has 20 MA's), (63, 38195), (Start: 77 @38120 has 1 MA's), (Start: 86 @38078 has 1 MA's), (101, 37997), (127, 37865), (135, 37811), (138, 37799), (146, 37721), (153, 37607), (157, 37580), (161, 37556), (167, 37517), (176, 37451), (181, 37430), (195, 37373), (216, 37256), (224, 37208), (227, 37190), (243, 37094), (245, 37073), (248, 37043),

Gene: Andromedas_40 Start: 31099, Stop: 29687, Start Num: 61

Candidate Starts for Andromedas_40:

(Start: 61 @31099 has 20 MA's), (64, 31069), (Start: 65 @31063 has 1 MA's), (71, 31030), (110, 30838), (114, 30811), (119, 30751), (126, 30724), (127, 30721), (132, 30679), (142, 30625), (145, 30583), (152, 30469), (161, 30412), (164, 30391), (168, 30376), (170, 30364), (171, 30352), (172, 30349), (174, 30331), (186, 30250), (194, 30214), (205, 30160), (212, 30118), (217, 30088), (220, 30064), (221, 30058), (231, 30016), (240, 29947), (244, 29923), (245, 29917), (246, 29911), (247, 29899), (254, 29803), (256, 29794), (258, 29776), (260, 29764), (271, 29719),

Gene: Antoinette_41 Start: 31109, Stop: 29721, Start Num: 57

Candidate Starts for Antoinette_41:

(15, 31331), (Start: 57 @31109 has 123 MA's), (84, 30965), (Start: 86 @30959 has 1 MA's), (87, 30956), (110, 30842), (114, 30815), (119, 30755), (126, 30728), (127, 30725), (142, 30629), (145, 30587), (161, 30416), (164, 30395), (168, 30380), (170, 30368), (177, 30320), (194, 30260), (212, 30164), (222, 30101), (233, 30047), (245, 29963), (246, 29957), (247, 29945), (253, 29870), (254, 29849), (265, 29795), (266, 29792), (270, 29768),

Gene: AranulaLuti_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for AranulaLuti_40:

(1, 31619), (2, 31454), (7, 31100), (15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: Asta_40 Start: 30816, Stop: 29428, Start Num: 57

Candidate Starts for Asta_40:

(15, 31038), (Start: 57 @30816 has 123 MA's), (84, 30672), (Start: 86 @30666 has 1 MA's), (87, 30663), (110, 30549), (114, 30522), (119, 30462), (126, 30435), (127, 30432), (141, 30339), (142, 30336), (145, 30294), (161, 30123), (164, 30102), (168, 30087), (170, 30075), (177, 30027), (194, 29967), (212, 29871), (222, 29808), (233, 29754), (245, 29670), (246, 29664), (247, 29652), (253, 29577), (254, 29556), (265, 29502), (266, 29499), (270, 29475),

Gene: Aubergine_40 Start: 30816, Stop: 29428, Start Num: 57

Candidate Starts for Aubergine_40:

(15, 31038), (Start: 57 @30816 has 123 MA's), (84, 30672), (Start: 86 @30666 has 1 MA's), (87, 30663), (110, 30549), (114, 30522), (119, 30462), (126, 30435), (127, 30432), (142, 30336), (145, 30294), (161, 30123), (164, 30102), (168, 30087), (177, 30027), (194, 29967), (212, 29871), (222, 29808), (233, 29754), (245, 29670), (246, 29664), (247, 29652), (254, 29556), (265, 29502), (266, 29499), (270, 29475),

Gene: AxiPup_41 Start: 31088, Stop: 29700, Start Num: 57

Candidate Starts for AxiPup_41:

(2, 31739), (7, 31385), (15, 31310), (Start: 57 @31088 has 123 MA's), (84, 30944), (Start: 86 @30938 has 1 MA's), (87, 30935), (110, 30821), (114, 30794), (119, 30734), (126, 30707), (127, 30704), (142, 30608), (145, 30566), (161, 30395), (164, 30374), (170, 30347), (177, 30299), (194, 30239), (222, 30080), (233, 30026), (245, 29942), (246, 29936), (247, 29924), (254, 29828), (265, 29774), (266, 29771), (270, 29747),

Gene: Axym_52 Start: 38739, Stop: 37261, Start Num: 43

Candidate Starts for Axym_52:

(Start: 43 @38739 has 29 MA's), (Start: 59 @38652 has 19 MA's), (Start: 61 @38646 has 20 MA's), (73, 38565), (Start: 77 @38544 has 1 MA's), (101, 38421), (102, 38418), (135, 38235), (137, 38229), (138, 38223), (146, 38145), (153, 38031), (157, 38004), (161, 37980), (170, 37920), (176, 37875), (181, 37854), (190, 37815), (195, 37797), (216, 37680), (224, 37632), (225, 37629), (227, 37614), (243, 37518), (245, 37497), (248, 37467),

Gene: Azira_49 Start: 37909, Stop: 36419, Start Num: 43

Candidate Starts for Azira_49:

(Start: 43 @37909 has 29 MA's), (Start: 61 @37819 has 20 MA's), (63, 37792), (72, 37750), (81, 37702), (Start: 86 @37675 has 1 MA's), (101, 37594), (102, 37591), (104, 37585), (107, 37564), (116, 37498), (135, 37408), (138, 37396), (144, 37333), (146, 37318), (147, 37303), (156, 37186), (157, 37177), (169, 37099), (173, 37072), (174, 37060), (176, 37048), (186, 37009), (190, 36988), (191, 36985), (195, 36970), (208, 36898), (217, 36829), (224, 36784), (232, 36739), (234, 36724), (238, 36694), (243, 36670), (248, 36619), (252, 36589), (257, 36523), (259, 36499), (267, 36466), (274, 36430),

Gene: Baines_40 Start: 30809, Stop: 29421, Start Num: 57

Candidate Starts for Baines_40:

(15, 31031), (Start: 57 @30809 has 123 MA's), (84, 30665), (Start: 86 @30659 has 1 MA's), (87, 30656), (110, 30542), (114, 30515), (119, 30455), (126, 30428), (127, 30425), (142, 30329), (145, 30287), (161, 30116), (164, 30095), (168, 30080), (170, 30068), (177, 30020), (194, 29960), (212, 29864), (222, 29801), (233, 29747), (245, 29663), (246, 29657), (247, 29645), (253, 29570), (254, 29549), (265, 29495), (266, 29492), (270, 29468),

Gene: Balsa_40 Start: 31258, Stop: 29867, Start Num: 57

Candidate Starts for Balsa_40:

(28, 31372), (52, 31288), (Start: 57 @31258 has 123 MA's), (84, 31111), (Start: 86 @31105 has 1 MA's), (87, 31102), (110, 30988), (114, 30961), (119, 30901), (126, 30874), (127, 30871), (142, 30775), (145, 30733), (161, 30562), (164, 30541), (170, 30514), (194, 30406), (212, 30310), (233, 30193), (236, 30175), (245, 30109), (246, 30103), (254, 29995), (265, 29941), (266, 29938), (270, 29914), (277, 29884),

Gene: Bandik_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Bandik_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142,

30634), (145, 30592), (151, 30481), (161, 30421), (168, 30385), (170, 30373), (174, 30340), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: BeautPeep30_41 Start: 31120, Stop: 29732, Start Num: 57

Candidate Starts for BeautPeep30_41:

(15, 31342), (Start: 57 @31120 has 123 MA's), (84, 30976), (Start: 86 @30970 has 1 MA's), (87, 30967), (110, 30853), (114, 30826), (119, 30766), (126, 30739), (127, 30736), (142, 30640), (145, 30598), (159, 30436), (161, 30427), (164, 30406), (168, 30391), (170, 30379), (177, 30331), (194, 30271), (212, 30175), (222, 30112), (233, 30058), (245, 29974), (246, 29968), (247, 29956), (254, 29860), (265, 29806), (266, 29803), (270, 29779),

Gene: BeeBee8_41 Start: 31426, Stop: 30035, Start Num: 57

Candidate Starts for BeeBee8_41:

(27, 31528), (28, 31525), (30, 31522), (Start: 57 @31426 has 123 MA's), (84, 31279), (Start: 86 @31273 has 1 MA's), (87, 31270), (110, 31156), (114, 31129), (119, 31069), (126, 31042), (127, 31039), (142, 30943), (145, 30901), (161, 30730), (164, 30709), (170, 30682), (177, 30634), (194, 30574), (212, 30478), (233, 30361), (236, 30343), (245, 30277), (246, 30271), (254, 30163), (265, 30109), (266, 30106), (270, 30082), (277, 30052),

Gene: Benjalauren_41 Start: 30819, Stop: 29431, Start Num: 57

Candidate Starts for Benjalauren_41:

(2, 31470), (7, 31116), (15, 31041), (Start: 57 @30819 has 123 MA's), (84, 30675), (Start: 86 @30669 has 1 MA's), (87, 30666), (110, 30552), (114, 30525), (119, 30465), (126, 30438), (127, 30435), (142, 30339), (145, 30297), (161, 30126), (164, 30105), (168, 30090), (177, 30030), (194, 29970), (212, 29874), (222, 29811), (233, 29757), (245, 29673), (246, 29667), (247, 29655), (254, 29559), (265, 29505), (266, 29502), (270, 29478),

Gene: BigChungus_56 Start: 40283, Stop: 38805, Start Num: 46

Candidate Starts for BigChungus_56:

(22, 40361), (32, 40310), (34, 40307), (Start: 46 @40283 has 18 MA's), (54, 40220), (Start: 59 @40199 has 19 MA's), (Start: 61 @40193 has 20 MA's), (63, 40166), (73, 40112), (81, 40076), (83, 40061), (101, 39965), (104, 39956), (107, 39935), (116, 39869), (127, 39833), (135, 39779), (137, 39773), (138, 39767), (146, 39689), (147, 39674), (153, 39575), (163, 39500), (168, 39476), (170, 39464), (173, 39443), (175, 39428), (176, 39419), (181, 39398), (190, 39359), (193, 39350), (197, 39335), (208, 39284), (218, 39212), (224, 39170), (227, 39152), (243, 39056), (248, 39005), (252, 38975), (253, 38942), (259, 38885), (264, 38870),

Gene: BigRedClifford_41 Start: 31118, Stop: 29730, Start Num: 57

Candidate Starts for BigRedClifford_41:

(Start: 57 @31118 has 123 MA's), (84, 30974), (Start: 86 @30968 has 1 MA's), (87, 30965), (110, 30851), (114, 30824), (119, 30764), (126, 30737), (127, 30734), (142, 30638), (145, 30596), (161, 30425), (164, 30404), (170, 30377), (177, 30329), (194, 30269), (222, 30110), (233, 30056), (245, 29972), (246, 29966), (247, 29954), (254, 29858), (265, 29804), (266, 29801), (270, 29777),

Gene: BillDoor_53 Start: 37991, Stop: 36513, Start Num: 43

Candidate Starts for BillDoor_53:

(Start: 43 @37991 has 29 MA's), (Start: 61 @37898 has 20 MA's), (63, 37871), (Start: 77 @37796 has 1 MA's), (Start: 86 @37754 has 1 MA's), (101, 37673), (127, 37541), (135, 37487), (138, 37475), (146, 37397), (153, 37283), (156, 37265), (157, 37256), (161, 37232), (167, 37193), (176, 37127), (181, 37106), (190, 37067), (195, 37049), (197, 37043), (216, 36932), (224, 36884), (227, 36866), (243, 36770), (245, 36749), (248, 36719),

Gene: Biskit_55 Start: 38648, Stop: 37170, Start Num: 43

Candidate Starts for Biskit_55:

(Start: 43 @38648 has 29 MA's), (Start: 59 @38561 has 19 MA's), (Start: 61 @38555 has 20 MA's), (69, 38504), (Start: 77 @38453 has 1 MA's), (81, 38438), (96, 38354), (101, 38330), (104, 38321), (127, 38198), (135, 38144), (137, 38138), (138, 38132), (146, 38054), (153, 37940), (157, 37913), (161, 37889), (173, 37808), (176, 37784), (181, 37763), (190, 37724), (195, 37706), (197, 37700), (216, 37589), (218, 37583), (224, 37541), (227, 37523), (240, 37436), (243, 37427), (245, 37406), (248, 37376), (252, 37346), (253, 37313), (267, 37223),

Gene: Blage_41 Start: 31118, Stop: 29730, Start Num: 57

Candidate Starts for Blage_41:

(Start: 57 @31118 has 123 MA's), (84, 30974), (Start: 86 @30968 has 1 MA's), (87, 30965), (110, 30851), (114, 30824), (119, 30764), (126, 30737), (127, 30734), (142, 30638), (145, 30596), (161, 30425), (164, 30404), (170, 30377), (177, 30329), (194, 30269), (222, 30110), (233, 30056), (245, 29972), (246, 29966), (247, 29954), (254, 29858), (265, 29804), (266, 29801), (270, 29777),

Gene: BonesMcCoy_41 Start: 31118, Stop: 29730, Start Num: 57

Candidate Starts for BonesMcCoy_41:

(2, 31769), (7, 31415), (15, 31340), (Start: 57 @31118 has 123 MA's), (84, 30974), (Start: 86 @30968 has 1 MA's), (87, 30965), (110, 30851), (114, 30824), (119, 30764), (126, 30737), (127, 30734), (142, 30638), (145, 30596), (161, 30425), (164, 30404), (170, 30377), (177, 30329), (194, 30269), (222, 30110), (233, 30056), (245, 29972), (246, 29966), (247, 29954), (254, 29858), (265, 29804), (266, 29801), (270, 29777),

Gene: Bonino_40 Start: 30795, Stop: 29407, Start Num: 57

Candidate Starts for Bonino_40:

(15, 31017), (Start: 57 @30795 has 123 MA's), (84, 30651), (Start: 86 @30645 has 1 MA's), (87, 30642), (110, 30528), (114, 30501), (119, 30441), (126, 30414), (127, 30411), (142, 30315), (145, 30273), (161, 30102), (164, 30081), (168, 30066), (170, 30054), (177, 30006), (194, 29946), (212, 29850), (222, 29787), (233, 29733), (245, 29649), (246, 29643), (247, 29631), (253, 29556), (254, 29535), (265, 29481), (266, 29478), (270, 29454),

Gene: BouleyBill_40 Start: 30408, Stop: 29158, Start Num: 84

Candidate Starts for BouleyBill_40:

(24, 30711), (31, 30666), (Start: 42 @30636 has 1 MA's), (52, 30582), (Start: 55 @30564 has 1 MA's), (Start: 57 @30552 has 123 MA's), (Start: 61 @30546 has 20 MA's), (64, 30516), (84, 30408), (Start: 86 @30402 has 1 MA's), (87, 30399), (90, 30384), (119, 30198), (120, 30189), (127, 30168), (132, 30126), (142, 30072), (161, 29859), (164, 29838), (168, 29823), (170, 29811), (172, 29796), (178, 29760), (180, 29751), (186, 29736), (194, 29700), (213, 29601), (222, 29538), (228, 29511), (239, 29436), (240, 29430), (243, 29421), (244, 29406), (245, 29400), (246, 29394), (247, 29382), (258, 29259), (260, 29247), (278, 29172),

Gene: Burnsey_53 Start: 38833, Stop: 37355, Start Num: 43

Candidate Starts for Burnsey_53:

(Start: 43 @38833 has 29 MA's), (Start: 59 @38746 has 19 MA's), (Start: 61 @38740 has 20 MA's), (73, 38659), (Start: 77 @38638 has 1 MA's), (101, 38515), (102, 38512), (135, 38329), (137, 38323), (138, 38317), (146, 38239), (153, 38125), (157, 38098), (161, 38074), (170, 38014), (176, 37969), (181, 37948), (190, 37909), (195, 37891), (216, 37774), (224, 37726), (225, 37723), (227, 37708), (243, 37612), (245, 37591), (248, 37561),

Gene: Bustleton_39 Start: 30567, Stop: 29185, Start Num: 57

Candidate Starts for Bustleton_39:

(52, 30594), (Start: 57 @30567 has 123 MA's), (Start: 61 @30564 has 20 MA's), (64, 30534), (84, 30426), (Start: 86 @30420 has 1 MA's), (87, 30417), (90, 30402), (119, 30216), (120, 30207), (127, 30186), (132, 30144), (142, 30090), (161, 29877), (164, 29856), (168, 29841), (170, 29829), (172, 29814), (178, 29778), (180, 29769), (186, 29754), (194, 29718), (213, 29619), (222, 29556), (228, 29529), (239, 29454), (240, 29448), (243, 29439), (244, 29424), (245, 29418), (246, 29412), (247, 29400), (258, 29277), (260, 29265),

Gene: Button_57 Start: 39117, Stop: 37642, Start Num: 46

Candidate Starts for Button_57:

(Start: 46 @39117 has 18 MA's), (51, 39075), (Start: 61 @39027 has 20 MA's), (63, 39000), (73, 38946), (Start: 77 @38925 has 1 MA's), (79, 38916), (96, 38826), (98, 38817), (102, 38799), (104, 38793), (127, 38670), (135, 38616), (137, 38610), (138, 38604), (143, 38559), (146, 38526), (168, 38313), (173, 38280), (180, 38241), (190, 38196), (195, 38178), (197, 38172), (206, 38127), (208, 38121), (210, 38100), (217, 38052), (218, 38049), (224, 38007), (225, 38004), (227, 37989), (232, 37962), (243, 37893), (248, 37842), (250, 37827), (258, 37731), (260, 37719), (263, 37710), (273, 37656),

Gene: Buttrmlkdreams_55 Start: 39095, Stop: 37617, Start Num: 43

Candidate Starts for Buttrmlkdreams_55:

(Start: 43 @39095 has 29 MA's), (Start: 59 @39008 has 19 MA's), (Start: 61 @39002 has 20 MA's), (69, 38951), (Start: 77 @38900 has 1 MA's), (81, 38885), (96, 38801), (101, 38777), (104, 38768), (127, 38645), (135, 38591), (137, 38585), (138, 38579), (142, 38549), (146, 38501), (153, 38387), (157, 38360), (161, 38336), (173, 38255), (176, 38231), (181, 38210), (190, 38171), (195, 38153), (197, 38147), (216, 38036), (218, 38030), (224, 37988), (227, 37970), (240, 37883), (243, 37874), (245, 37853), (248, 37823), (252, 37793), (253, 37760), (267, 37670),

Gene: Byron23_42 Start: 31117, Stop: 29729, Start Num: 57

Candidate Starts for Byron23_42:

(2, 31768), (7, 31414), (15, 31339), (Start: 57 @31117 has 123 MA's), (84, 30973), (Start: 86 @30967 has 1 MA's), (87, 30964), (110, 30850), (114, 30823), (119, 30763), (126, 30736), (127, 30733), (142, 30637), (145, 30595), (151, 30484), (161, 30424), (168, 30388), (170, 30376), (174, 30343), (177, 30328), (194, 30268), (212, 30172), (222, 30109), (233, 30055), (245, 29971), (246, 29965), (247, 29953), (254, 29857), (265, 29803), (266, 29800), (270, 29776),

Gene: Calix_40 Start: 30802, Stop: 29414, Start Num: 57

Candidate Starts for Calix_40:

(15, 31024), (Start: 57 @30802 has 123 MA's), (84, 30658), (Start: 86 @30652 has 1 MA's), (87, 30649), (110, 30535), (114, 30508), (119, 30448), (126, 30421), (127, 30418), (142, 30322), (145, 30280), (161, 30109), (164, 30088), (168, 30073), (170, 30061), (177, 30013), (194, 29953), (212, 29857), (222, 29794), (233, 29740), (245, 29656), (246, 29650), (247, 29638), (253, 29563), (254, 29542), (265, 29488), (266, 29485), (270, 29461),

Gene: CaptainRex_40 Start: 29071, Stop: 27644, Start Num: 59

Candidate Starts for CaptainRex_40:

(Start: 59 @29071 has 19 MA's), (62, 29041), (64, 29035), (Start: 86 @28921 has 1 MA's), (87, 28918), (126, 28681), (127, 28678), (152, 28423), (160, 28372), (161, 28366), (170, 28318), (174, 28285), (177, 28270), (188, 28198), (194, 28171), (197, 28162), (205, 28117), (207, 28111), (211, 28084), (222, 28012), (236, 27940), (240, 27904), (243, 27895), (244, 27880), (245, 27874), (247, 27856), (252, 27814), (256, 27751), (268, 27688), (270, 27679),

Gene: Carostasia_39 Start: 30625, Stop: 29213, Start Num: 61

Candidate Starts for Carostasia_39:

(Start: 57 @30628 has 123 MA's), (Start: 61 @30625 has 20 MA's), (64, 30595), (Start: 65 @30589 has 1 MA's), (71, 30556), (Start: 86 @30481 has 1 MA's), (88, 30475), (110, 30364), (114, 30337), (117, 30286), (119, 30277), (126, 30250), (127, 30247), (132, 30205), (142, 30151), (152, 29995), (160, 29944), (161, 29938), (164, 29917), (167, 29911), (168, 29902), (170, 29890), (171, 29878), (185, 29800), (194, 29740), (196, 29734), (205, 29686), (212, 29644), (222, 29581), (226, 29569), (230, 29545), (231, 29542), (240, 29473), (243, 29464), (244, 29449), (245, 29443), (246, 29437), (247, 29425), (256, 29320), (258, 29302), (260, 29290), (271, 29245),

Gene: Casey_37 Start: 29766, Stop: 28396, Start Num: 61

Candidate Starts for Casey_37:

(Start: 61 @29766 has 20 MA's), (82, 29637), (88, 29616), (108, 29505), (109, 29502), (118, 29418), (119, 29412), (121, 29400), (127, 29382), (130, 29361), (142, 29286), (144, 29253), (159, 29082), (160, 29079), (161, 29073), (162, 29070), (168, 29037), (177, 28977), (194, 28917), (196, 28911), (197, 28908), (198, 28905), (212, 28821), (235, 28689), (240, 28650), (244, 28626), (245, 28620), (247, 28602), (254, 28506), (258, 28479), (260, 28467), (268, 28434), (271, 28422),

Gene: Chako_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for Chako_40:

(2, 31454), (7, 31100), (15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: Chamuel_40 Start: 30828, Stop: 29407, Start Num: 57

Candidate Starts for Chamuel_40:

(15, 31050), (Start: 57 @30828 has 123 MA's), (84, 30684), (Start: 86 @30678 has 1 MA's), (87, 30675), (110, 30561), (114, 30534), (119, 30474), (126, 30447), (127, 30444), (142, 30348), (145, 30306), (159, 30144), (161, 30135), (164, 30114), (170, 30087), (174, 30054), (177, 30039), (189, 29964), (194, 29946), (212, 29850), (222, 29787), (233, 29733), (245, 29649), (246, 29643), (247, 29631), (253, 29556), (254, 29535), (265, 29481), (266, 29478), (270, 29454),

Gene: Cheeto1_42 Start: 31179, Stop: 29788, Start Num: 57

Candidate Starts for Cheeto1_42:

(Start: 57 @31179 has 123 MA's), (84, 31035), (Start: 86 @31029 has 1 MA's), (96, 30966), (114, 30885), (119, 30825), (126, 30798), (127, 30795), (142, 30699), (145, 30657), (151, 30546), (161, 30486), (164, 30465), (170, 30438), (178, 30387), (188, 30357), (194, 30330), (198, 30318), (213, 30231), (222, 30168), (226, 30156), (236, 30096), (240, 30060), (242, 30054), (244, 30036), (245, 30030), (246, 30024), (252, 29970), (254, 29916), (258, 29889), (260, 29877),

Gene: Chepli_42 Start: 30524, Stop: 29118, Start Num: 59

Candidate Starts for Chepli_42:

(Start: 59 @30524 has 19 MA's), (62, 30494), (85, 30377), (Start: 86 @30374 has 1 MA's), (87, 30371), (92, 30344), (96, 30311), (100, 30290), (110, 30248), (114, 30221), (126, 30134), (127, 30131), (132, 30089), (140, 30038), (152, 29876), (161, 29819), (171, 29759), (173, 29750), (174, 29738), (186, 29699), (187, 29696), (192, 29672), (193, 29669), (194, 29663), (211, 29576), (212, 29567), (213, 29564), (240, 29396), (243, 29387), (244, 29372), (245, 29366), (246, 29360), (247, 29348), (258, 29225), (264, 29201), (270, 29171),

Gene: CherryonLim_57 Start: 41741, Stop: 40263, Start Num: 46

Candidate Starts for CherryonLim_57:

(22, 41822), (34, 41768), (Start: 46 @41741 has 18 MA's), (54, 41678), (Start: 61 @41651 has 20 MA's), (63, 41624), (73, 41570), (Start: 77 @41549 has 1 MA's), (81, 41534), (83, 41519), (104,

41414), (127, 41291), (135, 41237), (137, 41231), (138, 41225), (146, 41147), (153, 41033), (167, 40943), (168, 40934), (170, 40922), (173, 40901), (175, 40886), (176, 40877), (181, 40856), (190, 40817), (193, 40808), (197, 40793), (210, 40721), (217, 40673), (218, 40670), (224, 40628), (227, 40610), (243, 40514), (248, 40463), (252, 40433), (253, 40400), (259, 40343), (264, 40328),

Gene: ChickenKing_40 Start: 31093, Stop: 29702, Start Num: 57

Candidate Starts for ChickenKing_40:

(Start: 57 @31093 has 123 MA's), (84, 30949), (Start: 86 @30943 has 1 MA's), (96, 30880), (114, 30799), (119, 30739), (126, 30712), (127, 30709), (129, 30703), (142, 30613), (145, 30571), (161, 30400), (164, 30379), (168, 30364), (170, 30352), (178, 30301), (194, 30244), (198, 30232), (222, 30082), (226, 30070), (236, 30010), (240, 29974), (242, 29968), (244, 29950), (245, 29944), (246, 29938), (252, 29884), (253, 29851), (254, 29830), (260, 29791),

Gene: ChikPic_40 Start: 30953, Stop: 29541, Start Num: 61

Candidate Starts for ChikPic_40:

(Start: 57 @30956 has 123 MA's), (Start: 61 @30953 has 20 MA's), (64, 30923), (Start: 65 @30917 has 1 MA's), (71, 30884), (110, 30692), (114, 30665), (119, 30605), (126, 30578), (127, 30575), (132, 30533), (142, 30479), (145, 30437), (152, 30323), (161, 30266), (164, 30245), (168, 30230), (170, 30218), (171, 30206), (172, 30203), (174, 30185), (186, 30104), (194, 30068), (205, 30014), (212, 29972), (217, 29942), (220, 29918), (221, 29912), (231, 29870), (240, 29801), (244, 29777), (245, 29771), (246, 29765), (247, 29753), (254, 29657), (256, 29648), (258, 29630), (260, 29618), (271, 29573),

Gene: Christoph_40 Start: 30815, Stop: 29427, Start Num: 57

Candidate Starts for Christoph_40:

(15, 31037), (Start: 57 @30815 has 123 MA's), (84, 30671), (Start: 86 @30665 has 1 MA's), (87, 30662), (110, 30548), (114, 30521), (119, 30461), (126, 30434), (127, 30431), (142, 30335), (145, 30293), (161, 30122), (164, 30101), (168, 30086), (177, 30026), (194, 29966), (212, 29870), (222, 29807), (233, 29753), (245, 29669), (246, 29663), (247, 29651), (254, 29555), (265, 29501), (266, 29498), (270, 29474),

Gene: Clancy_40 Start: 30848, Stop: 29460, Start Num: 57

Candidate Starts for Clancy_40:

(2, 31499), (7, 31145), (15, 31070), (Start: 57 @30848 has 123 MA's), (84, 30704), (Start: 86 @30698 has 1 MA's), (87, 30695), (110, 30581), (114, 30554), (119, 30494), (126, 30467), (127, 30464), (142, 30368), (145, 30326), (161, 30155), (164, 30134), (168, 30119), (177, 30059), (194, 29999), (212, 29903), (222, 29840), (233, 29786), (245, 29702), (246, 29696), (247, 29684), (254, 29588), (265, 29534), (266, 29531), (270, 29507),

Gene: Cleo_47 Start: 37658, Stop: 36168, Start Num: 43

Candidate Starts for Cleo_47:

(Start: 43 @37658 has 29 MA's), (51, 37616), (Start: 59 @37574 has 19 MA's), (Start: 61 @37568 has 20 MA's), (63, 37541), (73, 37487), (75, 37481), (81, 37451), (Start: 86 @37424 has 1 MA's), (101, 37343), (102, 37340), (104, 37334), (107, 37313), (116, 37247), (127, 37211), (131, 37187), (135, 37157), (137, 37151), (138, 37145), (146, 37067), (156, 36935), (157, 36926), (169, 36848), (174, 36809), (176, 36797), (177, 36794), (186, 36758), (189, 36740), (190, 36737), (191, 36734), (195, 36719), (201, 36692), (202, 36680), (208, 36647), (217, 36578), (224, 36533), (225, 36530), (232, 36488), (234, 36473), (241, 36425), (243, 36419), (248, 36368), (257, 36272), (259, 36248), (267, 36215), (273, 36182), (274, 36179),

Gene: Clock_39 Start: 31950, Stop: 30520, Start Num: 57

Candidate Starts for Clock_39:

(Start: 57 @31950 has 123 MA's), (62, 31917), (71, 31872), (Start: 86 @31797 has 1 MA's), (87, 31794), (111, 31662), (113, 31650), (126, 31557), (127, 31554), (160, 31248), (161, 31242), (164, 31221), (170, 31194), (171, 31182), (172, 31179), (174, 31161), (185, 31104), (194, 31047), (198, 31035), (205, 30993), (211, 30960), (212, 30951), (215, 30927), (222, 30888), (233, 30834), (240, 30780), (243, 30771), (244, 30756), (245, 30750), (256, 30627), (258, 30609), (264, 30585),

Gene: ColaCorta_40 Start: 31099, Stop: 29687, Start Num: 61

Candidate Starts for ColaCorta_40:

(Start: 61 @31099 has 20 MA's), (64, 31069), (Start: 65 @31063 has 1 MA's), (71, 31030), (110, 30838), (114, 30811), (119, 30751), (126, 30724), (127, 30721), (132, 30679), (142, 30625), (145, 30583), (152, 30469), (161, 30412), (164, 30391), (168, 30376), (170, 30364), (171, 30352), (172, 30349), (174, 30331), (186, 30250), (194, 30214), (205, 30160), (212, 30118), (217, 30088), (220, 30064), (221, 30058), (231, 30016), (240, 29947), (244, 29923), (245, 29917), (246, 29911), (247, 29899), (254, 29803), (256, 29794), (258, 29776), (260, 29764), (271, 29719),

Gene: Convict_41 Start: 31118, Stop: 29730, Start Num: 57

Candidate Starts for Convict_41:

(2, 31769), (7, 31415), (15, 31340), (Start: 57 @31118 has 123 MA's), (84, 30974), (Start: 86 @30968 has 1 MA's), (87, 30965), (110, 30851), (114, 30824), (119, 30764), (126, 30737), (127, 30734), (142, 30638), (145, 30596), (161, 30425), (164, 30404), (170, 30377), (177, 30329), (194, 30269), (222, 30110), (233, 30056), (245, 29972), (246, 29966), (247, 29954), (254, 29858), (265, 29804), (266, 29801), (270, 29777),

Gene: Cozz_51 Start: 38430, Stop: 36952, Start Num: 43

Candidate Starts for Cozz_51:

(Start: 43 @38430 has 29 MA's), (Start: 59 @38343 has 19 MA's), (Start: 61 @38337 has 20 MA's), (73, 38256), (Start: 77 @38235 has 1 MA's), (102, 38109), (135, 37926), (137, 37920), (138, 37914), (146, 37836), (153, 37722), (157, 37695), (161, 37671), (170, 37611), (176, 37566), (181, 37545), (190, 37506), (195, 37488), (216, 37371), (224, 37323), (225, 37320), (227, 37305), (243, 37209), (245, 37188), (248, 37158), (274, 36969),

Gene: Dave_41 Start: 31109, Stop: 29721, Start Num: 57

Candidate Starts for Dave_41:

(15, 31331), (Start: 57 @31109 has 123 MA's), (84, 30965), (Start: 86 @30959 has 1 MA's), (87, 30956), (110, 30842), (114, 30815), (119, 30755), (126, 30728), (127, 30725), (142, 30629), (145, 30587), (161, 30416), (164, 30395), (168, 30380), (170, 30368), (177, 30320), (194, 30260), (212, 30164), (222, 30101), (233, 30047), (245, 29963), (246, 29957), (247, 29945), (253, 29870), (254, 29849), (265, 29795), (266, 29792), (270, 29768),

Gene: Delphidian_43 Start: 31117, Stop: 29729, Start Num: 57

Candidate Starts for Delphidian_43:

(15, 31339), (Start: 57 @31117 has 123 MA's), (84, 30973), (Start: 86 @30967 has 1 MA's), (87, 30964), (110, 30850), (114, 30823), (119, 30763), (126, 30736), (127, 30733), (129, 30727), (142, 30637), (145, 30595), (161, 30424), (168, 30388), (170, 30376), (174, 30343), (177, 30328), (194, 30268), (212, 30172), (222, 30109), (233, 30055), (245, 29971), (246, 29965), (247, 29953), (254, 29857), (265, 29803), (266, 29800), (270, 29776),

Gene: Den3_41 Start: 31123, Stop: 29735, Start Num: 57

Candidate Starts for Den3_41:

(2, 31774), (7, 31420), (15, 31345), (Start: 57 @31123 has 123 MA's), (84, 30979), (Start: 86 @30973 has 1 MA's), (87, 30970), (110, 30856), (114, 30829), (119, 30769), (126, 30742), (127, 30739), (142, 30643), (145, 30601), (161, 30430), (164, 30409), (170, 30382), (177, 30334), (194, 30274), (222, 30115), (233, 30061), (245, 29977), (246, 29971), (247, 29959), (254, 29863), (265, 29809), (266,

29806), (270, 29782),

Gene: Dothraki_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Dothraki_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (151, 30481), (161, 30421), (168, 30385), (170, 30373), (174, 30340), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: Dre3_48 Start: 37401, Stop: 35911, Start Num: 44

Candidate Starts for Dre3_48:

(Start: 44 @37401 has 3 MA's), (51, 37359), (Start: 59 @37317 has 19 MA's), (Start: 61 @37311 has 20 MA's), (63, 37284), (73, 37230), (75, 37224), (81, 37194), (Start: 86 @37167 has 1 MA's), (101, 37086), (102, 37083), (104, 37077), (107, 37056), (116, 36990), (127, 36954), (131, 36930), (135, 36900), (137, 36894), (138, 36888), (144, 36825), (146, 36810), (147, 36795), (157, 36669), (169, 36591), (174, 36552), (176, 36540), (177, 36537), (186, 36501), (189, 36483), (190, 36480), (191, 36477), (195, 36462), (201, 36435), (202, 36423), (217, 36321), (224, 36276), (225, 36273), (232, 36231), (234, 36216), (241, 36168), (243, 36162), (248, 36111), (257, 36015), (259, 35991), (267, 35958), (273, 35925), (274, 35922),

Gene: Duocatuli_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for Duocatuli_40:

(7, 31100), (15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (253, 29564), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: Eleri_40 Start: 30943, Stop: 29531, Start Num: 61

Candidate Starts for Eleri_40:

(Start: 61 @30943 has 20 MA's), (64, 30913), (Start: 65 @30907 has 1 MA's), (71, 30874), (110, 30682), (114, 30655), (119, 30595), (126, 30568), (127, 30565), (132, 30523), (142, 30469), (145, 30427), (161, 30256), (164, 30235), (168, 30220), (170, 30208), (171, 30196), (172, 30193), (174, 30175), (186, 30094), (194, 30058), (205, 30004), (212, 29962), (217, 29932), (220, 29908), (221, 29902), (231, 29860), (240, 29791), (244, 29767), (245, 29761), (246, 29755), (247, 29743), (254, 29647), (256, 29638), (258, 29620), (260, 29608), (271, 29563),

Gene: Elinal_60 Start: 40792, Stop: 39314, Start Num: 46

Candidate Starts for Elinal_60:

(Start: 46 @40792 has 18 MA's), (54, 40729), (Start: 59 @40708 has 19 MA's), (Start: 61 @40702 has 20 MA's), (63, 40675), (73, 40621), (81, 40585), (83, 40570), (101, 40474), (104, 40465), (107, 40444), (116, 40378), (127, 40342), (135, 40288), (137, 40282), (138, 40276), (146, 40198), (147, 40183), (153, 40084), (163, 40009), (168, 39985), (170, 39973), (173, 39952), (175, 39937), (176, 39928), (181, 39907), (190, 39868), (193, 39859), (197, 39844), (208, 39793), (218, 39721), (224, 39679), (225, 39676), (227, 39661), (243, 39565), (248, 39514), (252, 39484), (253, 39451), (259, 39394), (264, 39379),

Gene: Elliott_53 Start: 38726, Stop: 37248, Start Num: 43

Candidate Starts for Elliott_53:

(Start: 43 @38726 has 29 MA's), (Start: 59 @38639 has 19 MA's), (Start: 61 @38633 has 20 MA's), (73, 38552), (Start: 77 @38531 has 1 MA's), (101, 38408), (102, 38405), (135, 38222), (137, 38216), (138, 38210), (146, 38132), (153, 38018), (157, 37991), (161, 37967), (170, 37907), (176, 37862),

(181, 37841), (190, 37802), (195, 37784), (216, 37667), (224, 37619), (225, 37616), (227, 37601), (243, 37505), (245, 37484), (248, 37454),

Gene: Emalyn_52 Start: 37827, Stop: 36349, Start Num: 43

Candidate Starts for Emalyn_52:

(Start: 43 @37827 has 29 MA's), (Start: 59 @37740 has 19 MA's), (Start: 61 @37734 has 20 MA's), (Start: 77 @37632 has 1 MA's), (Start: 86 @37590 has 1 MA's), (96, 37533), (99, 37515), (101, 37509), (127, 37377), (135, 37323), (137, 37317), (138, 37311), (146, 37233), (153, 37119), (157, 37092), (161, 37068), (167, 37029), (173, 36987), (176, 36963), (181, 36942), (190, 36903), (195, 36885), (197, 36879), (210, 36813), (216, 36768), (224, 36720), (225, 36717), (227, 36702), (243, 36606), (245, 36585), (248, 36555), (252, 36525), (271, 36387),

Gene: Endor_41 Start: 31504, Stop: 30116, Start Num: 57

Candidate Starts for Endor_41:

(28, 31618), (39, 31597), (Start: 57 @31504 has 123 MA's), (84, 31360), (Start: 86 @31354 has 1 MA's), (87, 31351), (110, 31237), (114, 31210), (119, 31150), (126, 31123), (127, 31120), (142, 31024), (145, 30982), (161, 30811), (164, 30790), (177, 30715), (194, 30655), (212, 30559), (233, 30442), (236, 30424), (245, 30358), (246, 30352), (247, 30340), (254, 30244), (265, 30190), (266, 30187), (270, 30163), (277, 30133),

Gene: Erla_40 Start: 30799, Stop: 29411, Start Num: 57

Candidate Starts for Erla_40:

(15, 31021), (Start: 57 @30799 has 123 MA's), (84, 30655), (Start: 86 @30649 has 1 MA's), (87, 30646), (110, 30532), (114, 30505), (119, 30445), (126, 30418), (127, 30415), (142, 30319), (145, 30277), (161, 30106), (164, 30085), (168, 30070), (170, 30058), (177, 30010), (194, 29950), (212, 29854), (222, 29791), (233, 29737), (245, 29653), (246, 29647), (247, 29635), (253, 29560), (254, 29539), (265, 29485), (266, 29482), (270, 29458),

Gene: Espinosa_40 Start: 30814, Stop: 29426, Start Num: 57

Candidate Starts for Espinosa_40:

(15, 31036), (Start: 57 @30814 has 123 MA's), (84, 30670), (Start: 86 @30664 has 1 MA's), (87, 30661), (110, 30547), (114, 30520), (119, 30460), (126, 30433), (127, 30430), (142, 30334), (145, 30292), (161, 30121), (164, 30100), (168, 30085), (177, 30025), (194, 29965), (212, 29869), (222, 29806), (233, 29752), (245, 29668), (246, 29662), (247, 29650), (254, 29554), (265, 29500), (266, 29497), (270, 29473),

Gene: Etna_40 Start: 31284, Stop: 29893, Start Num: 57

Candidate Starts for Etna_40:

(28, 31398), (52, 31314), (Start: 57 @31284 has 123 MA's), (84, 31137), (Start: 86 @31131 has 1 MA's), (87, 31128), (110, 31014), (114, 30987), (119, 30927), (126, 30900), (127, 30897), (142, 30801), (145, 30759), (161, 30588), (164, 30567), (194, 30432), (212, 30336), (233, 30219), (236, 30201), (245, 30135), (246, 30129), (247, 30117), (254, 30021), (265, 29967), (266, 29964), (270, 29940), (277, 29910),

Gene: Etta_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for Etta_40:

(15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (170, 30062), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (253, 29564), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: FF47_48 Start: 38882, Stop: 37371, Start Num: 29

Candidate Starts for FF47_48:

(Start: 29 @38882 has 2 MA's), (45, 38846), (Start: 60 @38756 has 1 MA's), (Start: 61 @38753 has 20 MA's), (68, 38705), (81, 38636), (103, 38522), (128, 38393), (135, 38342), (137, 38336), (138, 38330), (140, 38306), (146, 38252), (157, 38111), (158, 38108), (166, 38051), (176, 37979), (177, 37976), (217, 37781), (224, 37736), (240, 37631), (248, 37571), (271, 37403), (274, 37382),

Gene: FarmerDoug_40 Start: 31139, Stop: 29748, Start Num: 57

Candidate Starts for FarmerDoug_40:

(6, 31427), (8, 31406), (Start: 57 @31139 has 123 MA's), (84, 30992), (Start: 86 @30986 has 1 MA's), (87, 30983), (96, 30923), (110, 30869), (114, 30842), (119, 30782), (126, 30755), (127, 30752), (142, 30656), (145, 30614), (161, 30443), (164, 30422), (170, 30395), (177, 30347), (189, 30305), (194, 30287), (212, 30191), (233, 30074), (236, 30056), (242, 30014), (245, 29990), (246, 29984), (247, 29972), (254, 29876), (265, 29822), (266, 29819), (270, 29795), (277, 29765),

Gene: Feastonyeet_56 Start: 40283, Stop: 38805, Start Num: 46

Candidate Starts for Feastonyeet_56:

(22, 40361), (32, 40310), (34, 40307), (Start: 46 @40283 has 18 MA's), (54, 40220), (Start: 59 @40199 has 19 MA's), (Start: 61 @40193 has 20 MA's), (63, 40166), (73, 40112), (81, 40076), (83, 40061), (101, 39965), (104, 39956), (107, 39935), (116, 39869), (127, 39833), (135, 39779), (137, 39773), (138, 39767), (146, 39689), (147, 39674), (153, 39575), (163, 39500), (168, 39476), (170, 39464), (173, 39443), (175, 39428), (176, 39419), (181, 39398), (190, 39359), (193, 39350), (197, 39335), (208, 39284), (218, 39212), (224, 39170), (227, 39152), (243, 39056), (248, 39005), (252, 38975), (253, 38942), (259, 38885), (264, 38870),

Gene: Figueroism_41 Start: 31108, Stop: 29720, Start Num: 57

Candidate Starts for Figueroism_41:

(15, 31330), (Start: 57 @31108 has 123 MA's), (84, 30964), (Start: 86 @30958 has 1 MA's), (87, 30955), (110, 30841), (114, 30814), (119, 30754), (126, 30727), (127, 30724), (142, 30628), (145, 30586), (161, 30415), (164, 30394), (168, 30379), (170, 30367), (177, 30319), (194, 30259), (212, 30163), (222, 30100), (233, 30046), (245, 29962), (246, 29956), (247, 29944), (254, 29848), (265, 29794), (266, 29791), (270, 29767),

Gene: Finny_41 Start: 30901, Stop: 29525, Start Num: 65

Candidate Starts for Finny_41:

(Start: 57 @30940 has 123 MA's), (Start: 61 @30937 has 20 MA's), (64, 30907), (Start: 65 @30901 has 1 MA's), (71, 30868), (110, 30676), (114, 30649), (119, 30589), (126, 30562), (127, 30559), (132, 30517), (142, 30463), (145, 30421), (152, 30307), (161, 30250), (164, 30229), (170, 30202), (171, 30190), (172, 30187), (174, 30169), (186, 30088), (194, 30052), (205, 29998), (212, 29956), (217, 29926), (220, 29902), (221, 29896), (231, 29854), (240, 29785), (244, 29761), (245, 29755), (246, 29749), (247, 29737), (258, 29614), (260, 29602), (271, 29557),

Gene: Fribs8_48 Start: 37679, Stop: 36189, Start Num: 44

Candidate Starts for Fribs8_48:

(Start: 44 @37679 has 3 MA's), (Start: 59 @37595 has 19 MA's), (Start: 61 @37589 has 20 MA's), (63, 37562), (73, 37508), (75, 37502), (81, 37472), (Start: 86 @37445 has 1 MA's), (101, 37364), (102, 37361), (104, 37355), (107, 37334), (116, 37268), (127, 37232), (131, 37208), (135, 37178), (136, 37175), (137, 37172), (138, 37166), (144, 37103), (146, 37088), (147, 37073), (157, 36947), (163, 36899), (173, 36842), (174, 36830), (176, 36818), (177, 36815), (186, 36779), (190, 36758), (191, 36755), (195, 36740), (201, 36713), (205, 36677), (208, 36668), (217, 36599), (224, 36554), (232, 36509), (234, 36494), (238, 36464), (243, 36440), (248, 36389), (252, 36359), (257, 36293), (259, 36269), (267, 36236), (274, 36200),

Gene: Fulton_40 Start: 29072, Stop: 27645, Start Num: 59

Candidate Starts for Fulton_40:

(Start: 59 @29072 has 19 MA's), (62, 29042), (64, 29036), (Start: 86 @28922 has 1 MA's), (87, 28919), (126, 28682), (127, 28679), (152, 28424), (160, 28373), (161, 28367), (170, 28319), (174, 28286), (177, 28271), (188, 28199), (194, 28172), (197, 28163), (205, 28118), (207, 28112), (211, 28085), (222, 28013), (236, 27941), (240, 27905), (243, 27896), (244, 27881), (245, 27875), (247, 27857), (252, 27815), (256, 27752), (268, 27689), (270, 27680),

Gene: GTE2_44 Start: 38337, Stop: 36952, Start Num: 61

Candidate Starts for GTE2_44:

(Start: 43 @38430 has 29 MA's), (Start: 61 @38337 has 20 MA's), (63, 38310), (Start: 77 @38235 has 1 MA's), (81, 38220), (Start: 86 @38193 has 1 MA's), (101, 38112), (127, 37980), (135, 37926), (137, 37920), (138, 37914), (146, 37836), (153, 37722), (157, 37695), (167, 37632), (176, 37566), (181, 37545), (190, 37506), (195, 37488), (197, 37482), (216, 37371), (224, 37323), (227, 37305), (243, 37209), (245, 37188), (248, 37158),

Gene: GaeCeo_42 Start: 31326, Stop: 29935, Start Num: 57

Candidate Starts for GaeCeo_42:

(Start: 57 @31326 has 123 MA's), (84, 31182), (Start: 86 @31176 has 1 MA's), (96, 31113), (114, 31032), (119, 30972), (126, 30945), (127, 30942), (129, 30936), (142, 30846), (145, 30804), (161, 30633), (164, 30612), (168, 30597), (170, 30585), (178, 30534), (194, 30477), (198, 30465), (222, 30315), (226, 30303), (236, 30243), (240, 30207), (242, 30201), (244, 30183), (245, 30177), (246, 30171), (252, 30117), (253, 30084), (254, 30063), (260, 30024),

Gene: GardenB_40 Start: 31225, Stop: 29840, Start Num: 57

Candidate Starts for GardenB_40:

(52, 31255), (Start: 57 @31225 has 123 MA's), (81, 31102), (84, 31081), (Start: 86 @31075 has 1 MA's), (87, 31072), (110, 30958), (119, 30871), (126, 30844), (127, 30841), (142, 30745), (145, 30703), (161, 30532), (168, 30496), (194, 30376), (200, 30352), (222, 30217), (233, 30163), (242, 30103), (245, 30079), (246, 30073), (247, 30061), (254, 29965), (265, 29911),

Gene: Garey24_41 Start: 30782, Stop: 29394, Start Num: 57

Candidate Starts for Garey24_41:

(15, 31004), (Start: 57 @30782 has 123 MA's), (84, 30638), (Start: 86 @30632 has 1 MA's), (87, 30629), (110, 30515), (114, 30488), (119, 30428), (126, 30401), (127, 30398), (142, 30302), (145, 30260), (161, 30089), (164, 30068), (168, 30053), (170, 30041), (177, 29993), (194, 29933), (222, 29774), (233, 29720), (245, 29636), (246, 29630), (247, 29618), (253, 29543), (254, 29522), (265, 29468), (266, 29465), (270, 29441),

Gene: Gargoyle_41 Start: 31123, Stop: 29735, Start Num: 57

Candidate Starts for Gargoyle_41:

(2, 31774), (7, 31420), (15, 31345), (Start: 57 @31123 has 123 MA's), (84, 30979), (Start: 86 @30973 has 1 MA's), (87, 30970), (110, 30856), (114, 30829), (119, 30769), (126, 30742), (127, 30739), (142, 30643), (145, 30601), (161, 30430), (164, 30409), (168, 30394), (177, 30334), (194, 30274), (212, 30178), (222, 30115), (233, 30061), (245, 29977), (246, 29971), (247, 29959), (254, 29863), (265, 29809), (266, 29806), (270, 29782),

Gene: Gelo_40 Start: 30809, Stop: 29421, Start Num: 57

Candidate Starts for Gelo_40:

(15, 31031), (Start: 57 @30809 has 123 MA's), (84, 30665), (Start: 86 @30659 has 1 MA's), (87, 30656), (110, 30542), (114, 30515), (119, 30455), (126, 30428), (127, 30425), (142, 30329), (145, 30287), (161, 30116), (164, 30095), (168, 30080), (170, 30068), (177, 30020), (194, 29960), (212, 29864), (222, 29801), (233, 29747), (245, 29663), (246, 29657), (247, 29645), (253, 29570), (254, 29549), (265, 29495), (266, 29492), (270, 29468),

Gene: Gershwin_40 Start: 30816, Stop: 29428, Start Num: 57

Candidate Starts for Gershwin_40:

(15, 31038), (Start: 57 @30816 has 123 MA's), (84, 30672), (Start: 86 @30666 has 1 MA's), (87, 30663), (110, 30549), (114, 30522), (119, 30462), (126, 30435), (127, 30432), (141, 30339), (142, 30336), (145, 30294), (161, 30123), (164, 30102), (168, 30087), (170, 30075), (177, 30027), (194, 29967), (212, 29871), (222, 29808), (233, 29754), (245, 29670), (246, 29664), (247, 29652), (253, 29577), (254, 29556), (265, 29502), (266, 29499), (270, 29475),

Gene: GiKK_57 Start: 39360, Stop: 37885, Start Num: 46

Candidate Starts for GiKK_57:

(Start: 46 @39360 has 18 MA's), (51, 39318), (Start: 61 @39270 has 20 MA's), (63, 39243), (73, 39189), (Start: 77 @39168 has 1 MA's), (79, 39159), (81, 39153), (96, 39069), (98, 39060), (102, 39042), (104, 39036), (127, 38913), (135, 38859), (137, 38853), (138, 38847), (143, 38802), (146, 38769), (168, 38556), (173, 38523), (180, 38484), (190, 38439), (195, 38421), (197, 38415), (206, 38370), (208, 38364), (210, 38343), (217, 38295), (218, 38292), (224, 38250), (225, 38247), (227, 38232), (243, 38136), (248, 38085), (249, 38082), (253, 38022), (257, 37989), (258, 37974), (259, 37965), (270, 37920), (273, 37899),

Gene: Gibbous_48 Start: 37401, Stop: 35911, Start Num: 44

Candidate Starts for Gibbous_48:

(Start: 44 @37401 has 3 MA's), (51, 37359), (Start: 59 @37317 has 19 MA's), (Start: 61 @37311 has 20 MA's), (63, 37284), (73, 37230), (75, 37224), (81, 37194), (Start: 86 @37167 has 1 MA's), (101, 37086), (102, 37083), (104, 37077), (107, 37056), (116, 36990), (127, 36954), (131, 36930), (135, 36900), (137, 36894), (138, 36888), (144, 36825), (146, 36810), (147, 36795), (157, 36669), (169, 36591), (174, 36552), (176, 36540), (177, 36537), (186, 36501), (189, 36483), (190, 36480), (191, 36477), (195, 36462), (201, 36435), (202, 36423), (217, 36321), (224, 36276), (225, 36273), (232, 36231), (234, 36216), (241, 36168), (243, 36162), (248, 36111), (257, 36015), (259, 35991), (267, 35958), (273, 35925), (274, 35922),

Gene: Glamour_40 Start: 31091, Stop: 29679, Start Num: 61

Candidate Starts for Glamour_40:

(Start: 61 @31091 has 20 MA's), (64, 31061), (Start: 65 @31055 has 1 MA's), (71, 31022), (110, 30830), (114, 30803), (119, 30743), (126, 30716), (127, 30713), (132, 30671), (142, 30617), (145, 30575), (152, 30461), (161, 30404), (164, 30383), (168, 30368), (170, 30356), (171, 30344), (172, 30341), (174, 30323), (186, 30242), (194, 30206), (205, 30152), (212, 30110), (217, 30080), (220, 30056), (221, 30050), (231, 30008), (240, 29939), (244, 29915), (245, 29909), (246, 29903), (247, 29891), (254, 29795), (256, 29786), (258, 29768), (260, 29756), (271, 29711),

Gene: GoldHunter_54 Start: 38843, Stop: 37365, Start Num: 43

Candidate Starts for GoldHunter_54:

(Start: 43 @38843 has 29 MA's), (Start: 59 @38756 has 19 MA's), (Start: 61 @38750 has 20 MA's), (73, 38669), (Start: 77 @38648 has 1 MA's), (101, 38525), (102, 38522), (135, 38339), (137, 38333), (138, 38327), (146, 38249), (153, 38135), (157, 38108), (161, 38084), (170, 38024), (176, 37979), (181, 37958), (190, 37919), (195, 37901), (216, 37784), (224, 37736), (225, 37733), (227, 37718), (243, 37622), (245, 37601), (248, 37571),

Gene: Golden_39 Start: 30647, Stop: 29256, Start Num: 57

Candidate Starts for Golden_39:

(Start: 57 @30647 has 123 MA's), (Start: 61 @30644 has 20 MA's), (64, 30614), (84, 30506), (87, 30497), (95, 30443), (113, 30362), (119, 30296), (127, 30266), (133, 30221), (142, 30170), (159, 29966), (161, 29957), (168, 29918), (170, 29906), (171, 29894), (172, 29891), (178, 29855), (180, 29846), (186, 29831), (194, 29795), (198, 29783), (200, 29771), (213, 29696), (222, 29636), (240,

29528), (243, 29519), (244, 29504), (245, 29498), (246, 29492), (278, 29270),

Gene: Greenlvy_40 Start: 29681, Stop: 28254, Start Num: 59

Candidate Starts for Greenlvy_40:

(10, 29951), (13, 29927), (16, 29900), (23, 29852), (26, 29813), (Start: 59 @29681 has 19 MA's), (62, 29651), (64, 29645), (Start: 86 @29531 has 1 MA's), (87, 29528), (88, 29525), (126, 29291), (127, 29288), (152, 29033), (160, 28982), (161, 28976), (170, 28928), (174, 28895), (194, 28781), (197, 28772), (205, 28727), (207, 28721), (211, 28694), (222, 28622), (236, 28550), (240, 28514), (243, 28505), (244, 28490), (245, 28484), (247, 28466), (252, 28424), (256, 28361), (270, 28289),

Gene: Greys_41 Start: 31116, Stop: 29728, Start Num: 57

Candidate Starts for Greys_41:

(2, 31767), (7, 31413), (15, 31338), (Start: 57 @31116 has 123 MA's), (84, 30972), (Start: 86 @30966 has 1 MA's), (87, 30963), (110, 30849), (114, 30822), (119, 30762), (126, 30735), (127, 30732), (142, 30636), (145, 30594), (161, 30423), (164, 30402), (170, 30375), (177, 30327), (194, 30267), (222, 30108), (233, 30054), (245, 29970), (246, 29964), (247, 29952), (254, 29856), (265, 29802), (266, 29799), (270, 29775),

Gene: Gubbabump_40 Start: 30796, Stop: 29408, Start Num: 57

Candidate Starts for Gubbabump_40:

(2, 31447), (7, 31093), (15, 31018), (Start: 57 @30796 has 123 MA's), (84, 30652), (Start: 86 @30646 has 1 MA's), (87, 30643), (110, 30529), (114, 30502), (119, 30442), (126, 30415), (127, 30412), (142, 30316), (145, 30274), (161, 30103), (164, 30082), (168, 30067), (177, 30007), (194, 29947), (212, 29851), (222, 29788), (233, 29734), (245, 29650), (246, 29644), (247, 29632), (254, 29536), (265, 29482), (266, 29479), (270, 29455),

Gene: Guetzie_40 Start: 30629, Stop: 29241, Start Num: 61

Candidate Starts for Guetzie_40:

(Start: 57 @30632 has 123 MA's), (Start: 61 @30629 has 20 MA's), (64, 30599), (84, 30491), (87, 30482), (95, 30428), (113, 30347), (119, 30281), (127, 30251), (133, 30206), (142, 30155), (159, 29951), (161, 29942), (168, 29903), (170, 29891), (171, 29879), (172, 29876), (178, 29840), (180, 29831), (186, 29816), (194, 29780), (198, 29768), (200, 29756), (213, 29681), (222, 29621), (240, 29513), (243, 29504), (244, 29489), (245, 29483), (246, 29477), (278, 29255),

Gene: Hamlet_40 Start: 31266, Stop: 29875, Start Num: 57

Candidate Starts for Hamlet_40:

(27, 31368), (28, 31365), (30, 31362), (Start: 57 @31266 has 123 MA's), (84, 31119), (Start: 86 @31113 has 1 MA's), (87, 31110), (110, 30996), (114, 30969), (119, 30909), (126, 30882), (127, 30879), (142, 30783), (145, 30741), (161, 30570), (164, 30549), (170, 30522), (194, 30414), (212, 30318), (233, 30201), (236, 30183), (245, 30117), (246, 30111), (247, 30099), (254, 30003), (265, 29949), (266, 29946), (270, 29922), (277, 29892),

Gene: HanSolo_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for HanSolo_40:

(2, 31454), (7, 31100), (15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (168, 30074), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: HankSprout_41 Start: 30683, Stop: 29295, Start Num: 57

Candidate Starts for HankSprout_41:

(15, 30905), (Start: 57 @30683 has 123 MA's), (84, 30539), (Start: 86 @30533 has 1 MA's), (87, 30530), (110, 30416), (114, 30389), (119, 30329), (126, 30302), (127, 30299), (142, 30203), (145, 30161), (151, 30050), (161, 29990), (164, 29969), (168, 29954), (177, 29894), (194, 29834), (212, 29738), (222, 29675), (233, 29621), (245, 29537), (246, 29531), (247, 29519), (254, 29423), (265, 29369), (266, 29366), (270, 29342),

Gene: Hasitha_40 Start: 29084, Stop: 27657, Start Num: 59

Candidate Starts for Hasitha_40:

(Start: 59 @29084 has 19 MA's), (62, 29054), (64, 29048), (Start: 86 @28934 has 1 MA's), (87, 28931), (126, 28694), (127, 28691), (152, 28436), (160, 28385), (161, 28379), (170, 28331), (174, 28298), (177, 28283), (188, 28211), (194, 28184), (197, 28175), (205, 28130), (207, 28124), (211, 28097), (222, 28025), (236, 27953), (240, 27917), (243, 27908), (244, 27893), (245, 27887), (247, 27869), (252, 27827), (256, 27764), (268, 27701), (270, 27692),

Gene: HerculesXL_40 Start: 29477, Stop: 28092, Start Num: 59

Candidate Starts for HerculesXL_40:

(Start: 59 @29477 has 19 MA's), (96, 29264), (110, 29201), (113, 29180), (126, 29087), (127, 29084), (130, 29063), (132, 29042), (145, 28946), (161, 28775), (165, 28751), (168, 28739), (170, 28727), (171, 28715), (172, 28712), (174, 28694), (177, 28679), (194, 28619), (198, 28607), (200, 28595), (212, 28523), (217, 28493), (222, 28460), (240, 28352), (243, 28343), (244, 28328), (245, 28322), (246, 28316), (247, 28304), (254, 28208), (256, 28199), (260, 28169), (270, 28127),

Gene: Hexbug_60 Start: 41082, Stop: 39607, Start Num: 46

Candidate Starts for Hexbug_60:

(Start: 46 @41082 has 18 MA's), (51, 41040), (Start: 61 @40992 has 20 MA's), (63, 40965), (Start: 77 @40890 has 1 MA's), (79, 40881), (81, 40875), (96, 40791), (99, 40773), (102, 40764), (104, 40758), (127, 40635), (135, 40581), (137, 40575), (138, 40569), (144, 40506), (146, 40491), (147, 40476), (168, 40278), (173, 40245), (180, 40206), (190, 40161), (204, 40098), (208, 40086), (210, 40065), (213, 40050), (217, 40017), (218, 40014), (225, 39969), (234, 39912), (243, 39858), (248, 39807), (258, 39696), (263, 39675),

Gene: HippoPololi_50 Start: 37814, Stop: 36324, Start Num: 43

Candidate Starts for HippoPololi_50:

(Start: 43 @37814 has 29 MA's), (51, 37772), (Start: 59 @37730 has 19 MA's), (Start: 61 @37724 has 20 MA's), (63, 37697), (73, 37643), (81, 37607), (Start: 86 @37580 has 1 MA's), (101, 37499), (102, 37496), (104, 37490), (107, 37469), (116, 37403), (127, 37367), (131, 37343), (135, 37313), (137, 37307), (138, 37301), (146, 37223), (157, 37082), (169, 37004), (174, 36965), (177, 36950), (186, 36914), (190, 36893), (191, 36890), (195, 36875), (201, 36848), (208, 36803), (217, 36734), (224, 36689), (225, 36686), (232, 36644), (234, 36629), (240, 36584), (241, 36581), (243, 36575), (248, 36524), (252, 36494), (259, 36404), (267, 36371), (274, 36335),

Gene: Horseradish_55 Start: 38581, Stop: 37103, Start Num: 43

Candidate Starts for Horseradish_55:

(Start: 43 @38581 has 29 MA's), (Start: 59 @38494 has 19 MA's), (Start: 61 @38488 has 20 MA's), (69, 38437), (Start: 77 @38386 has 1 MA's), (81, 38371), (96, 38287), (101, 38263), (104, 38254), (127, 38131), (135, 38077), (137, 38071), (138, 38065), (142, 38035), (146, 37987), (153, 37873), (157, 37846), (161, 37822), (173, 37741), (176, 37717), (181, 37696), (190, 37657), (195, 37639), (197, 37633), (216, 37522), (218, 37516), (224, 37474), (227, 37456), (240, 37369), (243, 37360), (245, 37339), (248, 37309), (252, 37279), (253, 37246), (260, 37186), (267, 37156),

Gene: HungryHenry_40 Start: 30808, Stop: 29420, Start Num: 57

Candidate Starts for HungryHenry_40:

(2, 31459), (7, 31105), (15, 31030), (Start: 57 @30808 has 123 MA's), (84, 30664), (Start: 86 @30658 has 1 MA's), (87, 30655), (110, 30541), (114, 30514), (119, 30454), (126, 30427), (127, 30424), (142, 30328), (145, 30286), (161, 30115), (164, 30094), (168, 30079), (177, 30019), (194, 29959), (212, 29863), (222, 29800), (233, 29746), (245, 29662), (246, 29656), (247, 29644), (254, 29548), (265, 29494), (266, 29491), (270, 29467),

Gene: Huwbert_59 Start: 36808, Stop: 38358, Start Num: 43

Candidate Starts for Huwbert_59:

(Start: 42 @36805 has 1 MA's), (Start: 43 @36808 has 29 MA's), (53, 36874), (Start: 61 @36904 has 20 MA's), (64, 36934), (72, 36973), (76, 37000), (79, 37015), (91, 37069), (94, 37099), (112, 37183), (122, 37267), (124, 37276), (125, 37279), (142, 37399), (143, 37414), (148, 37501), (152, 37567), (156, 37591), (174, 37714), (176, 37726), (199, 37813), (214, 37912), (216, 37930), (238, 38068), (267, 38296), (269, 38305), (270, 38308),

Gene: Ilzat_40 Start: 30819, Stop: 29431, Start Num: 57

Candidate Starts for Ilzat_40:

(2, 31470), (7, 31116), (15, 31041), (Start: 57 @30819 has 123 MA's), (84, 30675), (Start: 86 @30669 has 1 MA's), (87, 30666), (110, 30552), (114, 30525), (119, 30465), (126, 30438), (127, 30435), (142, 30339), (145, 30297), (161, 30126), (164, 30105), (168, 30090), (177, 30030), (194, 29970), (212, 29874), (222, 29811), (233, 29757), (245, 29673), (246, 29667), (247, 29655), (254, 29559), (265, 29505), (266, 29502), (270, 29478),

Gene: Inventa_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Inventa_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (159, 30430), (161, 30421), (164, 30400), (168, 30385), (170, 30373), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: loannes_41 Start: 31118, Stop: 29730, Start Num: 57

Candidate Starts for loannes_41:

(15, 31340), (Start: 57 @31118 has 123 MA's), (84, 30974), (Start: 86 @30968 has 1 MA's), (110, 30851), (114, 30824), (119, 30764), (126, 30737), (127, 30734), (141, 30641), (142, 30638), (145, 30596), (161, 30425), (164, 30404), (168, 30389), (170, 30377), (177, 30329), (194, 30269), (212, 30173), (222, 30110), (233, 30056), (245, 29972), (246, 29966), (247, 29954), (253, 29879), (254, 29858), (265, 29804), (266, 29801), (270, 29777),

Gene: Ixel_41 Start: 29711, Stop: 28434, Start Num: 77

Candidate Starts for Ixel_41:

(Start: 59 @29819 has 19 MA's), (Start: 77 @29711 has 1 MA's), (84, 29675), (87, 29666), (110, 29543), (113, 29522), (126, 29429), (127, 29426), (132, 29384), (140, 29336), (142, 29330), (145, 29288), (154, 29165), (161, 29117), (164, 29096), (170, 29069), (171, 29057), (172, 29054), (174, 29036), (194, 28961), (198, 28949), (212, 28865), (219, 28820), (236, 28730), (240, 28694), (243, 28685), (244, 28670), (245, 28664), (246, 28658), (247, 28646), (254, 28550), (260, 28511),

Gene: JacoRen57_46 Start: 39673, Stop: 38201, Start Num: 47

Candidate Starts for JacoRen57_46:

(40, 39685), (Start: 47 @39673 has 2 MA's), (Start: 60 @39586 has 1 MA's), (Start: 61 @39583 has 20 MA's), (75, 39496), (Start: 77 @39481 has 1 MA's), (79, 39472), (101, 39358), (135, 39172), (138, 39160), (146, 39082), (166, 38881), (174, 38821), (176, 38809), (177, 38806), (224, 38566), (227, 38548), (237, 38494), (243, 38452), (245, 38431), (248, 38401), (250, 38386), (258, 38290), (260, 38278), (272, 38218),

Gene: Jamzy_58 Start: 39427, Stop: 37952, Start Num: 46

Candidate Starts for Jamzy_58:

(Start: 46 @39427 has 18 MA's), (Start: 61 @39337 has 20 MA's), (63, 39310), (73, 39256), (Start: 77 @39235 has 1 MA's), (79, 39226), (81, 39220), (96, 39136), (98, 39127), (102, 39109), (104, 39103), (127, 38980), (135, 38926), (137, 38920), (138, 38914), (143, 38869), (146, 38836), (168, 38623), (173, 38590), (180, 38551), (190, 38506), (195, 38488), (197, 38482), (206, 38437), (208, 38431), (210, 38410), (217, 38362), (218, 38359), (224, 38317), (225, 38314), (227, 38299), (243, 38203), (248, 38152), (253, 38089), (263, 38020), (273, 37966),

Gene: Janus167_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for Janus167_40:

(15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (170, 30062), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: JasonD_45 Start: 31699, Stop: 30293, Start Num: 57

Candidate Starts for JasonD_45:

(17, 31888), (37, 31798), (38, 31795), (Start: 57 @31699 has 123 MA's), (84, 31552), (Start: 86 @31546 has 1 MA's), (96, 31483), (110, 31429), (114, 31402), (119, 31342), (126, 31315), (127, 31312), (142, 31216), (145, 31174), (159, 31012), (161, 31003), (164, 30982), (167, 30976), (168, 30967), (178, 30904), (186, 30883), (194, 30847), (200, 30823), (213, 30748), (219, 30706), (245, 30550), (246, 30544), (247, 30532), (254, 30436), (258, 30409), (265, 30382),

Gene: JasperRussell_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for JasperRussell_40:

(7, 31100), (15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: Jemerald_42 Start: 31717, Stop: 30299, Start Num: 59

Candidate Starts for Jemerald_42:

(Start: 59 @31717 has 19 MA's), (Start: 61 @31711 has 20 MA's), (84, 31573), (95, 31510), (110, 31450), (113, 31429), (123, 31342), (126, 31336), (127, 31333), (130, 31312), (138, 31267), (140, 31243), (142, 31237), (145, 31195), (156, 31057), (161, 31024), (165, 31000), (177, 30928), (183, 30901), (188, 30853), (194, 30826), (211, 30739), (212, 30730), (230, 30631), (240, 30559), (243, 30550), (244, 30535), (245, 30529), (254, 30415), (260, 30376), (262, 30370), (270, 30334), (271, 30331),

Gene: Jenos_44 Start: 32344, Stop: 30941, Start Num: 59

Candidate Starts for Jenos_44:

(9, 32587), (11, 32578), (17, 32527), (21, 32506), (37, 32437), (Start: 59 @32344 has 19 MA's), (84, 32200), (Start: 86 @32194 has 1 MA's), (96, 32131), (110, 32077), (114, 32050), (119, 31990), (126, 31963), (127, 31960), (142, 31864), (145, 31822), (159, 31660), (161, 31651), (164, 31630), (170, 31603), (178, 31552), (194, 31495), (205, 31441), (212, 31399), (219, 31354), (242, 31222), (245, 31198), (246, 31192), (247, 31180), (254, 31084), (258, 31057), (265, 31030), (275, 30973),

Gene: Jerbirus_42 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for Jerbirus_42:

(2, 31454), (7, 31100), (15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: JeriBeth_42 Start: 30666, Stop: 29278, Start Num: 57

Candidate Starts for JeriBeth_42:

(15, 30888), (Start: 57 @30666 has 123 MA's), (84, 30522), (Start: 86 @30516 has 1 MA's), (87, 30513), (110, 30399), (114, 30372), (119, 30312), (126, 30285), (127, 30282), (142, 30186), (145, 30144), (161, 29973), (164, 29952), (168, 29937), (177, 29877), (194, 29817), (212, 29721), (222, 29658), (233, 29604), (245, 29520), (246, 29514), (247, 29502), (254, 29406), (265, 29352), (266, 29349), (270, 29325),

Gene: Juanyo_39 Start: 30553, Stop: 29183, Start Num: 61

Candidate Starts for Juanyo_39:

(Start: 57 @30556 has 123 MA's), (Start: 61 @30553 has 20 MA's), (Start: 77 @30451 has 1 MA's), (110, 30292), (114, 30265), (119, 30205), (126, 30178), (127, 30175), (139, 30094), (142, 30079), (152, 29923), (161, 29866), (164, 29845), (167, 29839), (168, 29830), (171, 29806), (174, 29785), (177, 29770), (184, 29746), (194, 29710), (205, 29656), (222, 29551), (226, 29539), (231, 29512), (236, 29479), (240, 29443), (243, 29434), (244, 29419), (245, 29413), (246, 29407), (247, 29395), (254, 29299), (256, 29290), (258, 29272), (260, 29260), (270, 29218), (276, 29191),

Gene: Juicer_42 Start: 31717, Stop: 30299, Start Num: 59

Candidate Starts for Juicer_42:

(Start: 59 @31717 has 19 MA's), (Start: 61 @31711 has 20 MA's), (84, 31573), (95, 31510), (110, 31450), (113, 31429), (123, 31342), (126, 31336), (127, 31333), (130, 31312), (138, 31267), (140, 31243), (142, 31237), (145, 31195), (156, 31057), (161, 31024), (165, 31000), (177, 30928), (183, 30901), (188, 30853), (194, 30826), (211, 30739), (212, 30730), (230, 30631), (240, 30559), (243, 30550), (244, 30535), (245, 30529), (254, 30415), (260, 30376), (262, 30370), (270, 30334), (271, 30331),

Gene: Kale_40 Start: 30818, Stop: 29430, Start Num: 57

Candidate Starts for Kale_40:

(15, 31040), (Start: 57 @30818 has 123 MA's), (84, 30674), (Start: 86 @30668 has 1 MA's), (87, 30665), (110, 30551), (114, 30524), (119, 30464), (126, 30437), (127, 30434), (142, 30338), (145, 30296), (161, 30125), (164, 30104), (168, 30089), (177, 30029), (194, 29969), (212, 29873), (222, 29810), (233, 29756), (245, 29672), (246, 29666), (247, 29654), (253, 29579), (254, 29558), (265, 29504), (266, 29501), (270, 29477),

Gene: KannH_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for KannH_40:

(2, 31454), (7, 31100), (15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: KatChan_42 Start: 30536, Stop: 29130, Start Num: 59

Candidate Starts for KatChan_42:

(Start: 59 @30536 has 19 MA's), (62, 30506), (85, 30389), (Start: 86 @30386 has 1 MA's), (87, 30383), (96, 30323), (100, 30302), (110, 30260), (114, 30233), (126, 30146), (127, 30143), (132, 30101), (140, 30050), (152, 29888), (161, 29831), (171, 29771), (173, 29762), (174, 29750), (186,

29711), (192, 29684), (193, 29681), (194, 29675), (211, 29588), (213, 29576), (240, 29408), (243, 29399), (244, 29384), (245, 29378), (246, 29372), (247, 29360), (258, 29237), (264, 29213), (270, 29183),

Gene: Kauala_39 Start: 30568, Stop: 29171, Start Num: 55

Candidate Starts for Kauala_39:

(14, 30784), (24, 30715), (25, 30700), (Start: 42 @30640 has 1 MA's), (Start: 55 @30568 has 1 MA's), (Start: 57 @30556 has 123 MA's), (Start: 61 @30550 has 20 MA's), (64, 30520), (84, 30412), (Start: 86 @30406 has 1 MA's), (87, 30403), (90, 30388), (119, 30202), (127, 30172), (132, 30130), (142, 30076), (144, 30043), (161, 29863), (164, 29842), (168, 29827), (170, 29815), (171, 29803), (172, 29800), (178, 29764), (186, 29740), (189, 29722), (194, 29704), (222, 29542), (233, 29488), (239, 29440), (240, 29434), (243, 29425), (244, 29410), (245, 29404), (246, 29398), (247, 29386), (258, 29263), (260, 29251),

Gene: KayGee_57 Start: 40792, Stop: 39314, Start Num: 46

Candidate Starts for KayGee_57:

(Start: 46 @40792 has 18 MA's), (54, 40729), (Start: 59 @40708 has 19 MA's), (Start: 61 @40702 has 20 MA's), (63, 40675), (73, 40621), (81, 40585), (83, 40570), (101, 40474), (104, 40465), (107, 40444), (116, 40378), (127, 40342), (135, 40288), (137, 40282), (138, 40276), (146, 40198), (147, 40183), (153, 40084), (163, 40009), (168, 39985), (170, 39973), (173, 39952), (175, 39937), (176, 39928), (181, 39907), (190, 39868), (193, 39859), (197, 39844), (208, 39793), (218, 39721), (224, 39679), (225, 39676), (227, 39661), (243, 39565), (248, 39514), (252, 39484), (253, 39451), (259, 39394), (264, 39379),

Gene: KimJongPhill_74 Start: 51796, Stop: 53328, Start Num: 36

Candidate Starts for KimJongPhill_74:

(3, 51421), (4, 51580), (5, 51595), (20, 51715), (Start: 36 @51796 has 2 MA's), (Start: 59 @51910 has 19 MA's), (Start: 61 @51916 has 20 MA's), (67, 51958), (68, 51964), (69, 51967), (70, 51973), (74, 52000), (78, 52021), (87, 52063), (93, 52105), (97, 52126), (99, 52141), (101, 52147), (102, 52150), (103, 52153), (126, 52294), (127, 52300), (135, 52354), (138, 52366), (140, 52390), (143, 52411), (146, 52444), (149, 52507), (150, 52516), (152, 52558), (169, 52675), (173, 52702), (174, 52714), (176, 52726), (177, 52729), (216, 52912), (220, 52942), (223, 52954), (224, 52960), (229, 52984), (241, 53068), (248, 53125), (251, 53143), (258, 53236), (261, 53251), (267, 53278),

Gene: KingJulien_40 Start: 31053, Stop: 29878, Start Num: 96

Candidate Starts for KingJulien_40:

(6, 31557), (8, 31536), (Start: 57 @31269 has 123 MA's), (84, 31122), (Start: 86 @31116 has 1 MA's), (87, 31113), (96, 31053), (110, 30999), (114, 30972), (119, 30912), (126, 30885), (127, 30882), (142, 30786), (145, 30744), (161, 30573), (164, 30552), (194, 30417), (212, 30321), (233, 30204), (236, 30186), (245, 30120), (246, 30114), (247, 30102), (254, 30006), (265, 29952), (266, 29949), (270, 29925), (277, 29895),

Gene: Klimt_41 Start: 30834, Stop: 29413, Start Num: 57

Candidate Starts for Klimt_41:

(15, 31056), (Start: 57 @30834 has 123 MA's), (84, 30690), (Start: 86 @30684 has 1 MA's), (87, 30681), (110, 30567), (114, 30540), (119, 30480), (126, 30453), (127, 30450), (142, 30354), (145, 30312), (159, 30150), (161, 30141), (164, 30120), (170, 30093), (174, 30060), (177, 30045), (189, 29970), (194, 29952), (212, 29856), (222, 29793), (233, 29739), (245, 29655), (246, 29649), (247, 29637), (253, 29562), (254, 29541), (265, 29487), (266, 29484), (270, 29460),

Gene: Knox_41 Start: 31118, Stop: 29730, Start Num: 57

Candidate Starts for Knox_41:

(2, 31769), (7, 31415), (15, 31340), (Start: 57 @31118 has 123 MA's), (84, 30974), (Start: 86 @30968 has 1 MA's), (87, 30965), (110, 30851), (114, 30824), (119, 30764), (126, 30737), (127, 30734), (142, 30638), (145, 30596), (161, 30425), (164, 30404), (170, 30377), (177, 30329), (194, 30269), (222, 30110), (233, 30056), (245, 29972), (246, 29966), (247, 29954), (254, 29858), (265, 29804), (266, 29801), (270, 29777),

Gene: Koji_39 Start: 30726, Stop: 29332, Start Num: 57

Candidate Starts for Koji_39:

(24, 30885), (31, 30840), (Start: 42 @30810 has 1 MA's), (52, 30756), (Start: 55 @30738 has 1 MA's), (Start: 57 @30726 has 123 MA's), (Start: 61 @30720 has 20 MA's), (64, 30690), (84, 30582), (Start: 86 @30576 has 1 MA's), (87, 30573), (90, 30558), (119, 30372), (120, 30363), (127, 30342), (132, 30300), (142, 30246), (161, 30033), (164, 30012), (168, 29997), (170, 29985), (172, 29970), (178, 29934), (186, 29910), (194, 29874), (196, 29868), (213, 29775), (222, 29712), (228, 29685), (239, 29610), (240, 29604), (243, 29595), (244, 29580), (245, 29574), (246, 29568), (247, 29556), (258, 29433), (260, 29421), (278, 29346),

Gene: Kurt1_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Kurt1_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (159, 30430), (161, 30421), (164, 30400), (168, 30385), (170, 30373), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: Lauer_52 Start: 41675, Stop: 40197, Start Num: 46

Candidate Starts for Lauer_52:

(Start: 46 @41675 has 18 MA's), (54, 41612), (Start: 61 @41585 has 20 MA's), (63, 41558), (73, 41504), (Start: 77 @41483 has 1 MA's), (83, 41453), (104, 41348), (107, 41327), (116, 41261), (127, 41225), (135, 41171), (137, 41165), (138, 41159), (146, 41081), (147, 41066), (153, 40967), (163, 40892), (168, 40868), (170, 40856), (173, 40835), (175, 40820), (176, 40811), (181, 40790), (190, 40751), (193, 40742), (208, 40676), (218, 40604), (224, 40562), (225, 40559), (227, 40544), (243, 40448), (248, 40397), (252, 40367), (253, 40334), (259, 40277), (264, 40262),

Gene: Leafus_40 Start: 31402, Stop: 30011, Start Num: 57

Candidate Starts for Leafus_40:

(28, 31516), (52, 31432), (Start: 57 @31402 has 123 MA's), (84, 31255), (Start: 86 @31249 has 1 MA's), (87, 31246), (110, 31132), (114, 31105), (119, 31045), (126, 31018), (127, 31015), (142, 30919), (145, 30877), (161, 30706), (164, 30685), (170, 30658), (194, 30550), (212, 30454), (233, 30337), (236, 30319), (245, 30253), (246, 30247), (247, 30235), (254, 30139), (265, 30085), (266, 30082), (270, 30058), (277, 30028),

Gene: Librie_40 Start: 29071, Stop: 27644, Start Num: 59

Candidate Starts for Librie_40:

(Start: 59 @29071 has 19 MA's), (62, 29041), (64, 29035), (Start: 86 @28921 has 1 MA's), (87, 28918), (126, 28681), (127, 28678), (152, 28423), (160, 28372), (161, 28366), (170, 28318), (174, 28285), (177, 28270), (188, 28198), (194, 28171), (197, 28162), (205, 28117), (207, 28111), (211, 28084), (222, 28012), (236, 27940), (240, 27904), (243, 27895), (244, 27880), (245, 27874), (247, 27856), (252, 27814), (256, 27751), (268, 27688), (270, 27679),

Gene: LilTerminator_40 Start: 29093, Stop: 27666, Start Num: 59

Candidate Starts for LilTerminator_40:

(Start: 59 @29093 has 19 MA's), (62, 29063), (64, 29057), (Start: 86 @28943 has 1 MA's), (87, 28940), (88, 28937), (113, 28796), (126, 28703), (127, 28700), (152, 28445), (160, 28394), (161,

28388), (170, 28340), (171, 28328), (174, 28307), (194, 28193), (197, 28184), (205, 28139), (207, 28133), (211, 28106), (222, 28034), (236, 27962), (240, 27926), (243, 27917), (244, 27902), (245, 27896), (247, 27878), (252, 27836), (256, 27773), (270, 27701),

Gene: Lovelyunicorn_41 Start: 31119, Stop: 29731, Start Num: 57

Candidate Starts for Lovelyunicorn_41:

(2, 31770), (7, 31416), (15, 31341), (Start: 57 @31119 has 123 MA's), (84, 30975), (Start: 86 @30969 has 1 MA's), (87, 30966), (110, 30852), (114, 30825), (119, 30765), (126, 30738), (127, 30735), (142, 30639), (145, 30597), (161, 30426), (164, 30405), (170, 30378), (177, 30330), (194, 30270), (222, 30111), (233, 30057), (245, 29973), (246, 29967), (247, 29955), (254, 29859), (265, 29805), (266, 29802), (270, 29778),

Gene: Lucky3_39 Start: 30647, Stop: 29256, Start Num: 57

Candidate Starts for Lucky3_39:

(Start: 57 @30647 has 123 MA's), (Start: 61 @30644 has 20 MA's), (64, 30614), (84, 30506), (87, 30497), (95, 30443), (113, 30362), (119, 30296), (127, 30266), (133, 30221), (142, 30170), (159, 29966), (161, 29957), (168, 29918), (170, 29906), (171, 29894), (172, 29891), (178, 29855), (180, 29846), (186, 29831), (194, 29795), (198, 29783), (200, 29771), (213, 29696), (222, 29636), (240, 29528), (243, 29519), (244, 29504), (245, 29498), (246, 29492), (278, 29270),

Gene: Ludgate_41 Start: 31117, Stop: 29729, Start Num: 57

Candidate Starts for Ludgate_41:

(15, 31339), (Start: 57 @31117 has 123 MA's), (84, 30973), (Start: 86 @30967 has 1 MA's), (87, 30964), (110, 30850), (114, 30823), (119, 30763), (126, 30736), (127, 30733), (142, 30637), (145, 30595), (161, 30424), (164, 30403), (168, 30388), (170, 30376), (177, 30328), (194, 30268), (212, 30172), (222, 30109), (233, 30055), (245, 29971), (246, 29965), (247, 29953), (253, 29878), (254, 29857), (265, 29803), (266, 29800), (270, 29776),

Gene: Luna18_42 Start: 30536, Stop: 29130, Start Num: 59

Candidate Starts for Luna18_42:

(Start: 59 @30536 has 19 MA's), (62, 30506), (85, 30389), (Start: 86 @30386 has 1 MA's), (87, 30383), (96, 30323), (100, 30302), (110, 30260), (114, 30233), (126, 30146), (127, 30143), (132, 30101), (140, 30050), (152, 29888), (161, 29831), (171, 29771), (173, 29762), (174, 29750), (186, 29711), (192, 29684), (193, 29681), (194, 29675), (211, 29588), (213, 29576), (240, 29408), (243, 29399), (244, 29384), (245, 29378), (246, 29372), (247, 29360), (258, 29237), (264, 29213), (270, 29183),

Gene: MAnor_58 Start: 41147, Stop: 39669, Start Num: 46

Candidate Starts for MAnor_58:

(34, 41174), (Start: 46 @41147 has 18 MA's), (54, 41084), (Start: 61 @41057 has 20 MA's), (63, 41030), (73, 40976), (Start: 77 @40955 has 1 MA's), (78, 40952), (81, 40940), (83, 40925), (Start: 86 @40913 has 1 MA's), (104, 40820), (127, 40697), (135, 40643), (137, 40637), (138, 40631), (146, 40553), (147, 40538), (153, 40439), (167, 40349), (168, 40340), (170, 40328), (173, 40307), (175, 40292), (176, 40283), (181, 40262), (190, 40223), (193, 40214), (197, 40199), (205, 40157), (217, 40079), (218, 40076), (224, 40034), (227, 40016), (243, 39920), (248, 39869), (252, 39839), (253, 39806), (259, 39749), (264, 39734),

Gene: MCubed_40 Start: 30968, Stop: 29556, Start Num: 61

Candidate Starts for MCubed_40:

(Start: 57 @30971 has 123 MA's), (Start: 61 @30968 has 20 MA's), (64, 30938), (Start: 65 @30932 has 1 MA's), (71, 30899), (110, 30707), (114, 30680), (119, 30620), (126, 30593), (127, 30590), (132, 30548), (142, 30494), (145, 30452), (152, 30338), (161, 30281), (164, 30260), (168, 30245), (170, 30233), (171, 30221), (172, 30218), (174, 30200), (186, 30119), (194, 30083), (205, 30029), (212,

29987), (217, 29957), (219, 29942), (220, 29933), (221, 29927), (231, 29885), (240, 29816), (244, 29792), (245, 29786), (246, 29780), (247, 29768), (254, 29672), (256, 29663), (258, 29645), (260, 29633), (262, 29627), (271, 29588),

Gene: MScarn_57 Start: 38763, Stop: 37285, Start Num: 43

Candidate Starts for MScarn_57:

(Start: 43 @38763 has 29 MA's), (Start: 59 @38676 has 19 MA's), (Start: 61 @38670 has 20 MA's), (69, 38619), (Start: 77 @38568 has 1 MA's), (81, 38553), (96, 38469), (101, 38445), (104, 38436), (127, 38313), (135, 38259), (137, 38253), (138, 38247), (146, 38169), (153, 38055), (157, 38028), (161, 38004), (173, 37923), (176, 37899), (181, 37878), (190, 37839), (195, 37821), (197, 37815), (216, 37704), (218, 37698), (224, 37656), (227, 37638), (240, 37551), (243, 37542), (245, 37521), (248, 37491), (252, 37461), (253, 37428), (260, 37368), (267, 37338),

Gene: MaVan_49 Start: 37938, Stop: 36448, Start Num: 43

Candidate Starts for MaVan_49:

(Start: 43 @37938 has 29 MA's), (Start: 61 @37848 has 20 MA's), (63, 37821), (72, 37779), (81, 37731), (Start: 86 @37704 has 1 MA's), (101, 37623), (102, 37620), (104, 37614), (107, 37593), (116, 37527), (135, 37437), (138, 37425), (144, 37362), (146, 37347), (147, 37332), (156, 37215), (157, 37206), (169, 37128), (173, 37101), (174, 37089), (176, 37077), (186, 37038), (190, 37017), (191, 37014), (195, 36999), (208, 36927), (217, 36858), (224, 36813), (232, 36768), (234, 36753), (238, 36723), (243, 36699), (248, 36648), (252, 36618), (257, 36552), (259, 36528), (267, 36495), (274, 36459),

Gene: Maco6_48 Start: 38222, Stop: 36711, Start Num: 29

Candidate Starts for Maco6_48:

(Start: 29 @38222 has 2 MA's), (45, 38186), (Start: 60 @38096 has 1 MA's), (Start: 61 @38093 has 20 MA's), (68, 38045), (81, 37976), (103, 37862), (128, 37733), (135, 37682), (137, 37676), (138, 37670), (140, 37646), (146, 37592), (157, 37451), (158, 37448), (166, 37391), (176, 37319), (177, 37316), (214, 37142), (217, 37121), (224, 37076), (240, 36971), (248, 36911), (271, 36743), (274, 36722),

Gene: MaeLinda_41 Start: 31118, Stop: 29730, Start Num: 57

Candidate Starts for MaeLinda_41:

(7, 31415), (15, 31340), (Start: 57 @31118 has 123 MA's), (84, 30974), (Start: 86 @30968 has 1 MA's), (87, 30965), (110, 30851), (114, 30824), (119, 30764), (126, 30737), (127, 30734), (129, 30728), (142, 30638), (145, 30596), (161, 30425), (168, 30389), (170, 30377), (174, 30344), (177, 30329), (194, 30269), (222, 30110), (233, 30056), (245, 29972), (246, 29966), (247, 29954), (254, 29858), (265, 29804), (266, 29801), (270, 29777),

Gene: ManRay_40 Start: 30816, Stop: 29428, Start Num: 57

Candidate Starts for ManRay_40:

(15, 31038), (Start: 57 @30816 has 123 MA's), (84, 30672), (Start: 86 @30666 has 1 MA's), (87, 30663), (110, 30549), (114, 30522), (119, 30462), (126, 30435), (127, 30432), (142, 30336), (145, 30294), (161, 30123), (164, 30102), (168, 30087), (177, 30027), (194, 29967), (212, 29871), (222, 29808), (233, 29754), (245, 29670), (246, 29664), (247, 29652), (254, 29556), (265, 29502), (266, 29499), (270, 29475),

Gene: Mandalorian_39 Start: 30635, Stop: 29223, Start Num: 61

Candidate Starts for Mandalorian_39:

(Start: 57 @30638 has 123 MA's), (Start: 61 @30635 has 20 MA's), (64, 30605), (Start: 65 @30599 has 1 MA's), (Start: 86 @30491 has 1 MA's), (88, 30485), (110, 30374), (114, 30347), (117, 30296), (119, 30287), (126, 30260), (127, 30257), (132, 30215), (142, 30161), (152, 30005), (160, 29954), (161, 29948), (164, 29927), (167, 29921), (168, 29912), (170, 29900), (171, 29888), (185, 29810),

(194, 29750), (196, 29744), (205, 29696), (212, 29654), (222, 29591), (226, 29579), (230, 29555), (231, 29552), (240, 29483), (243, 29474), (244, 29459), (245, 29453), (246, 29447), (247, 29435), (256, 29330), (258, 29312), (260, 29300), (271, 29255),

Gene: Margaret_58 Start: 39745, Stop: 38270, Start Num: 46

Candidate Starts for Margaret_58:

(Start: 46 @39745 has 18 MA's), (51, 39703), (Start: 61 @39655 has 20 MA's), (63, 39628), (70, 39598), (73, 39574), (Start: 77 @39553 has 1 MA's), (79, 39544), (81, 39538), (Start: 86 @39511 has 1 MA's), (96, 39454), (98, 39445), (102, 39427), (104, 39421), (127, 39298), (135, 39244), (137, 39238), (138, 39232), (144, 39169), (146, 39154), (147, 39139), (167, 38950), (168, 38941), (170, 38929), (173, 38908), (180, 38869), (182, 38860), (190, 38824), (195, 38806), (197, 38800), (206, 38755), (208, 38749), (217, 38680), (225, 38632), (227, 38617), (232, 38590), (234, 38575), (243, 38521), (248, 38470), (253, 38407), (258, 38359), (260, 38347), (263, 38338),

Gene: Martin_42 Start: 31123, Stop: 29735, Start Num: 57

Candidate Starts for Martin_42:

(2, 31774), (7, 31420), (15, 31345), (Start: 57 @31123 has 123 MA's), (84, 30979), (Start: 86 @30973 has 1 MA's), (87, 30970), (110, 30856), (114, 30829), (119, 30769), (126, 30742), (127, 30739), (142, 30643), (145, 30601), (159, 30439), (161, 30430), (164, 30409), (168, 30394), (170, 30382), (177, 30334), (194, 30274), (212, 30178), (222, 30115), (233, 30061), (245, 29977), (246, 29971), (247, 29959), (254, 29863), (265, 29809), (266, 29806), (270, 29782),

Gene: Mayweather_61 Start: 41658, Stop: 40414, Start Num: 86

Candidate Starts for Mayweather_61:

(Start: 46 @41892 has 18 MA's), (54, 41829), (Start: 61 @41802 has 20 MA's), (63, 41775), (73, 41721), (Start: 77 @41700 has 1 MA's), (78, 41697), (81, 41685), (83, 41670), (Start: 86 @41658 has 1 MA's), (104, 41565), (127, 41442), (135, 41388), (137, 41382), (138, 41376), (146, 41298), (147, 41283), (153, 41184), (167, 41094), (168, 41085), (170, 41073), (173, 41052), (175, 41037), (176, 41028), (181, 41007), (190, 40968), (193, 40959), (197, 40944), (205, 40902), (217, 40824), (218, 40821), (224, 40779), (227, 40761), (243, 40665), (248, 40614), (252, 40584), (253, 40551), (259, 40494), (264, 40479),

Gene: McGalleon_43 Start: 32555, Stop: 31152, Start Num: 59

Candidate Starts for McGalleon_43:

(11, 32789), (17, 32738), (37, 32648), (Start: 59 @32555 has 19 MA's), (84, 32411), (Start: 86 @32405 has 1 MA's), (96, 32342), (110, 32288), (114, 32261), (119, 32201), (126, 32174), (127, 32171), (141, 32078), (142, 32075), (145, 32033), (159, 31871), (161, 31862), (164, 31841), (170, 31814), (178, 31763), (194, 31706), (205, 31652), (212, 31610), (219, 31565), (242, 31433), (245, 31409), (246, 31403), (247, 31391), (254, 31295), (258, 31268), (265, 31241), (270, 31214), (275, 31184),

Gene: Mercedes_36 Start: 28234, Stop: 26813, Start Num: 59

Candidate Starts for Mercedes_36:

(Start: 59 @28234 has 19 MA's), (64, 28198), (80, 28114), (95, 28027), (96, 28021), (111, 27949), (113, 27937), (126, 27844), (127, 27841), (134, 27790), (152, 27586), (161, 27529), (170, 27481), (174, 27448), (178, 27430), (194, 27334), (197, 27325), (205, 27280), (207, 27274), (212, 27238), (219, 27193), (222, 27175), (240, 27067), (243, 27058), (244, 27043), (245, 27037), (264, 26872),

Gene: MillyPhilly_41 Start: 31111, Stop: 29723, Start Num: 57

Candidate Starts for MillyPhilly_41:

(2, 31762), (7, 31408), (15, 31333), (Start: 57 @31111 has 123 MA's), (84, 30967), (Start: 86 @30961 has 1 MA's), (87, 30958), (110, 30844), (114, 30817), (119, 30757), (126, 30730), (127, 30727), (142, 30631), (145, 30589), (159, 30427), (161, 30418), (164, 30397), (168, 30382), (170, 30370), (177,

30322), (194, 30262), (212, 30166), (222, 30103), (233, 30049), (245, 29965), (246, 29959), (247, 29947), (254, 29851), (265, 29797), (266, 29794), (270, 29770),

Gene: MonChoix_39 Start: 31157, Stop: 29766, Start Num: 57

Candidate Starts for MonChoix_39:

(Start: 57 @31157 has 123 MA's), (84, 31010), (Start: 86 @31004 has 1 MA's), (87, 31001), (110, 30887), (114, 30860), (119, 30800), (126, 30773), (127, 30770), (142, 30674), (145, 30632), (161, 30461), (167, 30434), (177, 30365), (194, 30305), (233, 30092), (236, 30074), (240, 30038), (245, 30008), (246, 30002), (247, 29990), (254, 29894), (265, 29840), (266, 29837),

Gene: Morrigan_42 Start: 30540, Stop: 29155, Start Num: 60

Candidate Starts for Morrigan_42:

(Start: 59 @30543 has 19 MA's), (Start: 60 @30540 has 1 MA's), (62, 30513), (Start: 65 @30501 has 1 MA's), (66, 30498), (Start: 77 @30435 has 1 MA's), (96, 30330), (105, 30279), (110, 30267), (126, 30153), (127, 30150), (132, 30108), (140, 30057), (161, 29838), (170, 29790), (171, 29778), (172, 29775), (173, 29769), (174, 29757), (186, 29718), (194, 29682), (198, 29670), (205, 29628), (211, 29595), (212, 29586), (213, 29583), (222, 29523), (240, 29415), (243, 29406), (244, 29391), (245, 29385), (246, 29379), (247, 29367), (256, 29262), (258, 29244), (264, 29220), (270, 29190),

Gene: MrWorldwide_41 Start: 31121, Stop: 29733, Start Num: 57

Candidate Starts for MrWorldwide_41:

(2, 31772), (7, 31418), (15, 31343), (Start: 57 @31121 has 123 MA's), (84, 30977), (Start: 86 @30971 has 1 MA's), (87, 30968), (110, 30854), (114, 30827), (119, 30767), (126, 30740), (127, 30737), (142, 30641), (145, 30599), (159, 30437), (161, 30428), (164, 30407), (168, 30392), (170, 30380), (177, 30332), (194, 30272), (212, 30176), (222, 30113), (233, 30059), (245, 29975), (246, 29969), (247, 29957), (254, 29861), (265, 29807), (266, 29804), (270, 29780),

Gene: Muddy_50 Start: 39454, Stop: 37943, Start Num: 29

Candidate Starts for Muddy_50:

(Start: 29 @39454 has 2 MA's), (45, 39418), (Start: 60 @39328 has 1 MA's), (Start: 61 @39325 has 20 MA's), (68, 39277), (81, 39208), (103, 39094), (128, 38965), (135, 38914), (137, 38908), (138, 38902), (140, 38878), (146, 38824), (157, 38683), (158, 38680), (166, 38623), (176, 38551), (177, 38548), (214, 38374), (217, 38353), (224, 38308), (240, 38203), (248, 38143), (271, 37975), (274, 37954),

Gene: MunkgeeRoachy_54 Start: 38189, Stop: 36711, Start Num: 43

Candidate Starts for MunkgeeRoachy_54:

(Start: 43 @38189 has 29 MA's), (Start: 61 @38096 has 20 MA's), (73, 38015), (Start: 77 @37994 has 1 MA's), (101, 37871), (102, 37868), (135, 37685), (137, 37679), (138, 37673), (142, 37643), (146, 37595), (153, 37481), (157, 37454), (161, 37430), (170, 37370), (176, 37325), (181, 37304), (190, 37265), (195, 37247), (197, 37241), (224, 37082), (225, 37079), (227, 37064), (243, 36968), (245, 36947), (248, 36917),

Gene: Nagem_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Nagem_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (159, 30430), (161, 30421), (164, 30400), (168, 30385), (170, 30373), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (253, 29875), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: Nattles_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for Nattles_40:

(15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (141, 30326), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (170, 30062), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (253, 29564), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: Nebulous_39 Start: 32131, Stop: 30701, Start Num: 57

Candidate Starts for Nebulous_39:

(Start: 57 @32131 has 123 MA's), (62, 32098), (71, 32053), (Start: 86 @31978 has 1 MA's), (87, 31975), (111, 31843), (113, 31831), (126, 31738), (127, 31735), (128, 31732), (144, 31603), (160, 31429), (161, 31423), (164, 31402), (170, 31375), (171, 31363), (172, 31360), (174, 31342), (185, 31285), (194, 31228), (198, 31216), (205, 31174), (212, 31132), (215, 31108), (222, 31069), (233, 31015), (240, 30961), (243, 30952), (244, 30937), (245, 30931), (256, 30808), (258, 30790), (264, 30766),

Gene: Neferthena_41 Start: 31335, Stop: 29905, Start Num: 57

Candidate Starts for Neferthena_41:

(Start: 57 @31335 has 123 MA's), (62, 31302), (71, 31257), (84, 31188), (Start: 86 @31182 has 1 MA's), (87, 31179), (111, 31047), (126, 30942), (127, 30939), (160, 30633), (161, 30627), (164, 30606), (170, 30579), (174, 30546), (185, 30489), (190, 30447), (194, 30432), (198, 30420), (205, 30378), (212, 30336), (215, 30312), (219, 30291), (222, 30273), (233, 30219), (240, 30165), (243, 30156), (244, 30141), (245, 30135), (254, 30021), (262, 29976), (264, 29970), (268, 29949), (270, 29940),

Gene: Nibbles_48 Start: 37634, Stop: 36144, Start Num: 43

Candidate Starts for Nibbles_48:

(Start: 43 @37634 has 29 MA's), (Start: 61 @37544 has 20 MA's), (63, 37517), (72, 37475), (79, 37433), (81, 37427), (Start: 86 @37400 has 1 MA's), (101, 37319), (102, 37316), (104, 37310), (107, 37289), (116, 37223), (135, 37133), (138, 37121), (146, 37043), (147, 37028), (156, 36911), (157, 36902), (169, 36824), (173, 36797), (174, 36785), (176, 36773), (186, 36734), (190, 36713), (191, 36710), (195, 36695), (208, 36623), (224, 36509), (232, 36464), (234, 36449), (238, 36419), (243, 36395), (248, 36344), (249, 36341), (252, 36314), (257, 36248), (259, 36224), (267, 36191), (274, 36155),

Gene: NickSell_43 Start: 31124, Stop: 29736, Start Num: 57

Candidate Starts for NickSell_43:

(2, 31775), (7, 31421), (15, 31346), (Start: 57 @31124 has 123 MA's), (84, 30980), (Start: 86 @30974 has 1 MA's), (87, 30971), (110, 30857), (114, 30830), (119, 30770), (126, 30743), (127, 30740), (142, 30644), (145, 30602), (159, 30440), (161, 30431), (164, 30410), (168, 30395), (170, 30383), (177, 30335), (194, 30275), (212, 30179), (222, 30116), (233, 30062), (245, 29978), (246, 29972), (247, 29960), (254, 29864), (265, 29810), (266, 29807), (270, 29783),

Gene: Nina_53 Start: 39329, Stop: 37851, Start Num: 43

Candidate Starts for Nina_53:

(Start: 43 @39329 has 29 MA's), (Start: 59 @39242 has 19 MA's), (Start: 61 @39236 has 20 MA's), (73, 39155), (101, 39011), (102, 39008), (135, 38825), (137, 38819), (138, 38813), (146, 38735), (153, 38621), (157, 38594), (161, 38570), (170, 38510), (176, 38465), (181, 38444), (190, 38405), (195, 38387), (216, 38270), (224, 38222), (225, 38219), (227, 38204), (243, 38108), (245, 38087), (248, 38057),

Gene: NoShow_58 Start: 42406, Stop: 40934, Start Num: 47

Candidate Starts for NoShow_58:

(Start: 47 @42406 has 2 MA's), (Start: 61 @42316 has 20 MA's), (63, 42289), (75, 42229), (96, 42115), (103, 42085), (135, 41905), (137, 41899), (138, 41893), (146, 41815), (166, 41614), (176, 41542), (177, 41539), (180, 41527), (190, 41482), (203, 41422), (210, 41392), (227, 41281), (237, 41227), (243, 41185), (248, 41134), (257, 41038), (260, 41011), (271, 40966),

Gene: Nodigi_60 Start: 41112, Stop: 39637, Start Num: 46

Candidate Starts for Nodigi_60:

(18, 41229), (19, 41223), (Start: 46 @41112 has 18 MA's), (51, 41070), (Start: 61 @41022 has 20 MA's), (63, 40995), (Start: 77 @40920 has 1 MA's), (79, 40911), (81, 40905), (96, 40821), (99, 40803), (102, 40794), (104, 40788), (127, 40665), (135, 40611), (137, 40605), (138, 40599), (144, 40536), (146, 40521), (147, 40506), (168, 40308), (173, 40275), (180, 40236), (190, 40191), (204, 40128), (206, 40122), (208, 40116), (210, 40095), (213, 40080), (217, 40047), (218, 40044), (225, 39999), (234, 39942), (243, 39888), (248, 39837), (253, 39774), (258, 39726), (263, 39705),

Gene: Nucci_39 Start: 30618, Stop: 29206, Start Num: 61

Candidate Starts for Nucci_39:

(Start: 57 @30621 has 123 MA's), (Start: 61 @30618 has 20 MA's), (64, 30588), (Start: 65 @30582 has 1 MA's), (71, 30549), (Start: 86 @30474 has 1 MA's), (88, 30468), (110, 30357), (114, 30330), (117, 30279), (119, 30270), (126, 30243), (127, 30240), (132, 30198), (142, 30144), (152, 29988), (160, 29937), (161, 29931), (164, 29910), (167, 29904), (168, 29895), (170, 29883), (171, 29871), (185, 29793), (194, 29733), (196, 29727), (205, 29679), (212, 29637), (222, 29574), (226, 29562), (230, 29538), (231, 29535), (240, 29466), (243, 29457), (244, 29442), (245, 29436), (246, 29430), (247, 29418), (256, 29313), (258, 29295), (260, 29283), (271, 29238),

Gene: Oats_40 Start: 30816, Stop: 29428, Start Num: 57

Candidate Starts for Oats_40:

(15, 31038), (Start: 57 @30816 has 123 MA's), (84, 30672), (Start: 86 @30666 has 1 MA's), (87, 30663), (110, 30549), (114, 30522), (119, 30462), (126, 30435), (127, 30432), (141, 30339), (142, 30336), (145, 30294), (161, 30123), (164, 30102), (168, 30087), (170, 30075), (177, 30027), (194, 29967), (212, 29871), (222, 29808), (233, 29754), (245, 29670), (246, 29664), (247, 29652), (253, 29577), (254, 29556), (265, 29502), (266, 29499), (270, 29475),

Gene: OldNelly_42 Start: 31120, Stop: 29732, Start Num: 57

Candidate Starts for OldNelly_42:

(15, 31342), (Start: 57 @31120 has 123 MA's), (84, 30976), (Start: 86 @30970 has 1 MA's), (87, 30967), (110, 30853), (114, 30826), (119, 30766), (126, 30739), (127, 30736), (129, 30730), (142, 30640), (145, 30598), (161, 30427), (168, 30391), (170, 30379), (174, 30346), (177, 30331), (194, 30271), (212, 30175), (222, 30112), (233, 30058), (245, 29974), (246, 29968), (247, 29956), (254, 29860), (265, 29806), (266, 29803), (270, 29779),

Gene: Orla_60 Start: 41041, Stop: 39566, Start Num: 46

Candidate Starts for Orla_60:

(Start: 46 @41041 has 18 MA's), (51, 40999), (Start: 61 @40951 has 20 MA's), (63, 40924), (Start: 77 @40849 has 1 MA's), (79, 40840), (81, 40834), (96, 40750), (99, 40732), (102, 40723), (104, 40717), (127, 40594), (135, 40540), (137, 40534), (138, 40528), (144, 40465), (146, 40450), (147, 40435), (168, 40237), (173, 40204), (180, 40165), (190, 40120), (204, 40057), (206, 40051), (208, 40045), (217, 39976), (218, 39973), (225, 39928), (234, 39871), (243, 39817), (248, 39766), (258, 39655), (263, 39634),

Gene: Oxtober96_42 Start: 31119, Stop: 29731, Start Num: 57

Candidate Starts for Oxtober96_42:

(2, 31770), (7, 31416), (15, 31341), (Start: 57 @31119 has 123 MA's), (84, 30975), (Start: 86 @30969 has 1 MA's), (87, 30966), (110, 30852), (114, 30825), (119, 30765), (126, 30738), (127, 30735), (142,

30639), (145, 30597), (161, 30426), (164, 30405), (170, 30378), (177, 30330), (194, 30270), (222, 30111), (233, 30057), (245, 29973), (246, 29967), (247, 29955), (254, 29859), (265, 29805), (266, 29802), (270, 29778),

Gene: Pajaza_37 Start: 29766, Stop: 28396, Start Num: 61

Candidate Starts for Pajaza_37:

(Start: 61 @29766 has 20 MA's), (82, 29637), (88, 29616), (108, 29505), (109, 29502), (118, 29418), (119, 29412), (121, 29400), (127, 29382), (130, 29361), (142, 29286), (144, 29253), (159, 29082), (160, 29079), (161, 29073), (162, 29070), (168, 29037), (177, 28977), (194, 28917), (196, 28911), (197, 28908), (198, 28905), (212, 28821), (235, 28689), (240, 28650), (244, 28626), (245, 28620), (247, 28602), (254, 28506), (258, 28479), (260, 28467), (268, 28434), (271, 28422),

Gene: Papafritta_40 Start: 30824, Stop: 29436, Start Num: 57

Candidate Starts for Papafritta_40:

(7, 31121), (15, 31046), (Start: 57 @30824 has 123 MA's), (84, 30680), (Start: 86 @30674 has 1 MA's), (87, 30671), (110, 30557), (114, 30530), (119, 30470), (126, 30443), (127, 30440), (142, 30344), (145, 30302), (161, 30131), (164, 30110), (168, 30095), (177, 30035), (188, 30002), (194, 29975), (212, 29879), (222, 29816), (233, 29762), (245, 29678), (246, 29672), (247, 29660), (254, 29564), (265, 29510), (266, 29507), (270, 29483),

Gene: ParleG_41 Start: 31121, Stop: 29733, Start Num: 57

Candidate Starts for ParleG_41:

(2, 31772), (7, 31418), (15, 31343), (Start: 57 @31121 has 123 MA's), (84, 30977), (Start: 86 @30971 has 1 MA's), (87, 30968), (110, 30854), (114, 30827), (119, 30767), (126, 30740), (127, 30737), (142, 30641), (145, 30599), (159, 30437), (161, 30428), (164, 30407), (168, 30392), (170, 30380), (177, 30332), (194, 30272), (212, 30176), (222, 30113), (233, 30059), (245, 29975), (246, 29969), (247, 29957), (254, 29861), (265, 29807), (266, 29804), (270, 29780),

Gene: Peep_41 Start: 31106, Stop: 29718, Start Num: 57

Candidate Starts for Peep_41:

(15, 31328), (50, 31166), (Start: 57 @31106 has 123 MA's), (84, 30962), (Start: 86 @30956 has 1 MA's), (87, 30953), (110, 30839), (114, 30812), (119, 30752), (126, 30725), (127, 30722), (142, 30626), (145, 30584), (161, 30413), (164, 30392), (168, 30377), (170, 30365), (177, 30317), (194, 30257), (212, 30161), (222, 30098), (233, 30044), (245, 29960), (246, 29954), (247, 29942), (254, 29846), (265, 29792), (266, 29789), (270, 29765),

Gene: Peppino_40 Start: 31250, Stop: 29859, Start Num: 57

Candidate Starts for Peppino_40:

(28, 31364), (52, 31280), (Start: 57 @31250 has 123 MA's), (84, 31103), (Start: 86 @31097 has 1 MA's), (87, 31094), (110, 30980), (114, 30953), (119, 30893), (126, 30866), (127, 30863), (142, 30767), (145, 30725), (161, 30554), (164, 30533), (170, 30506), (194, 30398), (212, 30302), (233, 30185), (236, 30167), (245, 30101), (246, 30095), (254, 29987), (265, 29933), (266, 29930), (270, 29906), (277, 29876),

Gene: Pherbot_39 Start: 30554, Stop: 29172, Start Num: 57

Candidate Starts for Pherbot_39:

(52, 30581), (Start: 57 @30554 has 123 MA's), (Start: 61 @30551 has 20 MA's), (64, 30521), (84, 30413), (Start: 86 @30407 has 1 MA's), (87, 30404), (90, 30389), (119, 30203), (120, 30194), (127, 30173), (132, 30131), (142, 30077), (161, 29864), (164, 29843), (168, 29828), (170, 29816), (172, 29801), (178, 29765), (180, 29756), (186, 29741), (194, 29705), (213, 29606), (222, 29543), (228, 29516), (239, 29441), (240, 29435), (243, 29426), (244, 29411), (245, 29405), (246, 29399), (247, 29387), (258, 29264), (260, 29252),

Gene: Pherferi_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Pherferi_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (159, 30430), (161, 30421), (164, 30400), (168, 30385), (170, 30373), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: Phiderman_41 Start: 31111, Stop: 29723, Start Num: 57

Candidate Starts for Phiderman_41:

(2, 31762), (7, 31408), (15, 31333), (Start: 57 @31111 has 123 MA's), (84, 30967), (Start: 86 @30961 has 1 MA's), (87, 30958), (110, 30844), (114, 30817), (119, 30757), (126, 30730), (127, 30727), (142, 30631), (145, 30589), (159, 30427), (161, 30418), (164, 30397), (168, 30382), (170, 30370), (177, 30322), (194, 30262), (212, 30166), (222, 30103), (233, 30049), (245, 29965), (246, 29959), (247, 29947), (254, 29851), (265, 29797), (266, 29794), (270, 29770),

Gene: Phireproof_41 Start: 31120, Stop: 29732, Start Num: 57

Candidate Starts for Phireproof_41:

(15, 31342), (Start: 57 @31120 has 123 MA's), (84, 30976), (Start: 86 @30970 has 1 MA's), (87, 30967), (110, 30853), (114, 30826), (119, 30766), (126, 30739), (127, 30736), (142, 30640), (145, 30598), (159, 30436), (161, 30427), (164, 30406), (168, 30391), (170, 30379), (177, 30331), (194, 30271), (212, 30175), (222, 30112), (233, 30058), (245, 29974), (246, 29968), (247, 29956), (254, 29860), (265, 29806), (266, 29803), (270, 29779),

Gene: PhredFlintston_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for PhredFlintston_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (159, 30430), (161, 30421), (164, 30400), (168, 30385), (170, 30373), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: Phriends_41 Start: 31120, Stop: 29732, Start Num: 57

Candidate Starts for Phriends_41:

(15, 31342), (Start: 57 @31120 has 123 MA's), (84, 30976), (Start: 86 @30970 has 1 MA's), (87, 30967), (110, 30853), (114, 30826), (119, 30766), (126, 30739), (127, 30736), (129, 30730), (142, 30640), (145, 30598), (161, 30427), (168, 30391), (170, 30379), (174, 30346), (177, 30331), (194, 30271), (212, 30175), (222, 30112), (233, 30058), (245, 29974), (246, 29968), (247, 29956), (254, 29860), (265, 29806), (266, 29803), (270, 29779),

Gene: Pikmin_37 Start: 29766, Stop: 28396, Start Num: 61

Candidate Starts for Pikmin_37:

(Start: 61 @29766 has 20 MA's), (82, 29637), (88, 29616), (108, 29505), (109, 29502), (118, 29418), (119, 29412), (121, 29400), (127, 29382), (130, 29361), (142, 29286), (144, 29253), (159, 29082), (160, 29079), (161, 29073), (162, 29070), (168, 29037), (177, 28977), (194, 28917), (196, 28911), (197, 28908), (198, 28905), (212, 28821), (235, 28689), (240, 28650), (244, 28626), (245, 28620), (247, 28602), (254, 28506), (258, 28479), (260, 28467), (268, 28434), (271, 28422),

Gene: Pocket_40 Start: 30843, Stop: 29422, Start Num: 57

Candidate Starts for Pocket_40:

(15, 31065), (Start: 57 @30843 has 123 MA's), (84, 30699), (Start: 86 @30693 has 1 MA's), (87, 30690), (110, 30576), (114, 30549), (119, 30489), (126, 30462), (127, 30459), (142, 30363), (145, 30321), (159, 30159), (161, 30150), (164, 30129), (170, 30102), (174, 30069), (177, 30054), (189,

29979), (194, 29961), (212, 29865), (222, 29802), (233, 29748), (245, 29664), (246, 29658), (247, 29646), (253, 29571), (254, 29550), (265, 29496), (266, 29493), (270, 29469),

Gene: Pons_58 Start: 40779, Stop: 39301, Start Num: 46

Candidate Starts for Pons_58:

(22, 40860), (34, 40806), (Start: 46 @40779 has 18 MA's), (54, 40716), (Start: 61 @40689 has 20 MA's), (63, 40662), (73, 40608), (Start: 77 @40587 has 1 MA's), (78, 40584), (83, 40557), (Start: 86 @40545 has 1 MA's), (104, 40452), (127, 40329), (135, 40275), (137, 40269), (138, 40263), (146, 40185), (147, 40170), (151, 40080), (153, 40071), (157, 40044), (167, 39981), (168, 39972), (170, 39960), (173, 39939), (175, 39924), (176, 39915), (181, 39894), (190, 39855), (193, 39846), (197, 39831), (217, 39711), (218, 39708), (224, 39666), (227, 39648), (243, 39552), (248, 39501), (252, 39471), (253, 39438), (259, 39381), (264, 39366),

Gene: PotPie_56 Start: 41318, Stop: 39840, Start Num: 46

Candidate Starts for PotPie_56:

(22, 41396), (32, 41345), (34, 41342), (Start: 46 @41318 has 18 MA's), (54, 41255), (Start: 59 @41234 has 19 MA's), (Start: 61 @41228 has 20 MA's), (63, 41201), (73, 41147), (81, 41111), (83, 41096), (101, 41000), (104, 40991), (107, 40970), (116, 40904), (127, 40868), (135, 40814), (137, 40808), (138, 40802), (146, 40724), (147, 40709), (153, 40610), (163, 40535), (168, 40511), (170, 40499), (173, 40478), (175, 40463), (176, 40454), (181, 40433), (190, 40394), (193, 40385), (197, 40370), (208, 40319), (217, 40250), (218, 40247), (224, 40205), (227, 40187), (243, 40091), (248, 40040), (252, 40010), (253, 39977), (259, 39920), (264, 39905),

Gene: PrincePhergus_39 Start: 30573, Stop: 29191, Start Num: 57

Candidate Starts for PrincePhergus_39:

(52, 30600), (Start: 57 @30573 has 123 MA's), (Start: 61 @30570 has 20 MA's), (64, 30540), (84, 30432), (Start: 86 @30426 has 1 MA's), (87, 30423), (90, 30408), (117, 30231), (119, 30222), (120, 30213), (127, 30192), (132, 30150), (142, 30096), (161, 29883), (164, 29862), (168, 29847), (170, 29835), (172, 29820), (178, 29784), (180, 29775), (186, 29760), (194, 29724), (213, 29625), (222, 29562), (228, 29535), (239, 29460), (240, 29454), (243, 29445), (244, 29430), (245, 29424), (246, 29418), (247, 29406), (258, 29283), (260, 29271),

Gene: PsychoKiller_52 Start: 38727, Stop: 37249, Start Num: 43

Candidate Starts for PsychoKiller_52:

(Start: 43 @38727 has 29 MA's), (Start: 59 @38640 has 19 MA's), (Start: 61 @38634 has 20 MA's), (73, 38553), (Start: 77 @38532 has 1 MA's), (101, 38409), (102, 38406), (135, 38223), (137, 38217), (138, 38211), (146, 38133), (153, 38019), (157, 37992), (161, 37968), (170, 37908), (176, 37863), (181, 37842), (190, 37803), (195, 37785), (216, 37668), (224, 37620), (225, 37617), (227, 37602), (243, 37506), (245, 37485), (248, 37455),

Gene: PuppyEggo_41 Start: 31121, Stop: 29733, Start Num: 57

Candidate Starts for PuppyEggo_41:

(2, 31772), (7, 31418), (15, 31343), (Start: 57 @31121 has 123 MA's), (84, 30977), (Start: 86 @30971 has 1 MA's), (87, 30968), (110, 30854), (114, 30827), (119, 30767), (126, 30740), (127, 30737), (142, 30641), (145, 30599), (161, 30428), (164, 30407), (170, 30380), (177, 30332), (194, 30272), (222, 30113), (233, 30059), (245, 29975), (246, 29969), (247, 29957), (254, 29861), (265, 29807), (266, 29804), (270, 29780),

Gene: QuadZero_39 Start: 29101, Stop: 27674, Start Num: 59

Candidate Starts for QuadZero_39:

(49, 29158), (Start: 59 @29101 has 19 MA's), (62, 29071), (64, 29065), (Start: 86 @28951 has 1 MA's), (87, 28948), (88, 28945), (126, 28711), (127, 28708), (152, 28453), (160, 28402), (161, 28396), (170, 28348), (174, 28315), (177, 28300), (194, 28201), (205, 28147), (207, 28141), (211, 28114),

(222, 28042), (236, 27970), (240, 27934), (243, 27925), (244, 27910), (245, 27904), (247, 27886),
(252, 27844), (256, 27781), (270, 27709),

Gene: Quartz_40 Start: 30748, Stop: 29336, Start Num: 61

Candidate Starts for Quartz_40:

(Start: 57 @30751 has 123 MA's), (Start: 61 @30748 has 20 MA's), (64, 30718), (Start: 65 @30712 has 1 MA's), (71, 30679), (Start: 86 @30604 has 1 MA's), (88, 30598), (110, 30487), (114, 30460), (117, 30409), (119, 30400), (126, 30373), (127, 30370), (132, 30328), (142, 30274), (152, 30118), (160, 30067), (161, 30061), (164, 30040), (167, 30034), (168, 30025), (170, 30013), (171, 30001), (185, 29923), (194, 29863), (196, 29857), (205, 29809), (212, 29767), (222, 29704), (226, 29692), (230, 29668), (231, 29665), (240, 29596), (243, 29587), (244, 29572), (245, 29566), (246, 29560), (247, 29548), (256, 29443), (258, 29425), (260, 29413), (271, 29368),

Gene: Quasar_53 Start: 39431, Stop: 37953, Start Num: 43

Candidate Starts for Quasar_53:

(Start: 43 @39431 has 29 MA's), (Start: 59 @39344 has 19 MA's), (Start: 61 @39338 has 20 MA's), (Start: 77 @39236 has 1 MA's), (101, 39113), (102, 39110), (135, 38927), (137, 38921), (138, 38915), (146, 38837), (153, 38723), (157, 38696), (161, 38672), (170, 38612), (176, 38567), (181, 38546), (190, 38507), (195, 38489), (216, 38372), (224, 38324), (225, 38321), (227, 38306), (243, 38210), (245, 38189), (248, 38159),

Gene: Raccoon_40 Start: 31223, Stop: 29832, Start Num: 57

Candidate Starts for Raccoon_40:

(27, 31325), (28, 31322), (30, 31319), (Start: 57 @31223 has 123 MA's), (84, 31076), (Start: 86 @31070 has 1 MA's), (87, 31067), (110, 30953), (114, 30926), (119, 30866), (126, 30839), (127, 30836), (142, 30740), (145, 30698), (161, 30527), (164, 30506), (170, 30479), (194, 30371), (212, 30275), (233, 30158), (236, 30140), (245, 30074), (246, 30068), (247, 30056), (254, 29960), (265, 29906), (266, 29903), (270, 29879), (277, 29849),

Gene: Rapheph_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Rapheph_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (159, 30430), (161, 30421), (164, 30400), (168, 30385), (170, 30373), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: Raptor_41 Start: 31121, Stop: 29733, Start Num: 57

Candidate Starts for Raptor_41:

(15, 31343), (Start: 57 @31121 has 123 MA's), (84, 30977), (Start: 86 @30971 has 1 MA's), (87, 30968), (110, 30854), (114, 30827), (119, 30767), (126, 30740), (127, 30737), (142, 30641), (145, 30599), (161, 30428), (164, 30407), (168, 30392), (170, 30380), (177, 30332), (194, 30272), (212, 30176), (222, 30113), (233, 30059), (245, 29975), (246, 29969), (247, 29957), (253, 29882), (254, 29861), (265, 29807), (266, 29804), (270, 29780),

Gene: RedBaron_56 Start: 39388, Stop: 37904, Start Num: 41

Candidate Starts for RedBaron_56:

(41, 39388), (Start: 46 @39379 has 18 MA's), (54, 39316), (Start: 59 @39295 has 19 MA's), (Start: 61 @39289 has 20 MA's), (73, 39208), (Start: 77 @39187 has 1 MA's), (101, 39064), (102, 39061), (129, 38926), (135, 38878), (137, 38872), (138, 38866), (146, 38788), (153, 38674), (157, 38647), (161, 38623), (170, 38563), (176, 38518), (181, 38497), (190, 38458), (195, 38440), (216, 38323), (224, 38275), (225, 38272), (227, 38257), (243, 38161), (245, 38140), (248, 38110),

Gene: Redfield_40 Start: 31255, Stop: 29864, Start Num: 57

Candidate Starts for Redfield_40:

(27, 31357), (28, 31354), (30, 31351), (Start: 57 @31255 has 123 MA's), (84, 31108), (Start: 86 @31102 has 1 MA's), (87, 31099), (110, 30985), (114, 30958), (119, 30898), (126, 30871), (127, 30868), (142, 30772), (145, 30730), (161, 30559), (164, 30538), (170, 30511), (194, 30403), (212, 30307), (233, 30190), (236, 30172), (245, 30106), (246, 30100), (247, 30088), (254, 29992), (265, 29938), (266, 29935), (270, 29911), (277, 29881),

Gene: Renzie_41 Start: 31109, Stop: 29721, Start Num: 57

Candidate Starts for Renzie_41:

(15, 31331), (Start: 57 @31109 has 123 MA's), (84, 30965), (Start: 86 @30959 has 1 MA's), (87, 30956), (110, 30842), (114, 30815), (119, 30755), (126, 30728), (127, 30725), (142, 30629), (145, 30587), (161, 30416), (164, 30395), (168, 30380), (170, 30368), (177, 30320), (194, 30260), (212, 30164), (222, 30101), (233, 30047), (245, 29963), (246, 29957), (247, 29945), (253, 29870), (254, 29849), (265, 29795), (266, 29792), (270, 29768),

Gene: Riyhil_41 Start: 31124, Stop: 29736, Start Num: 57

Candidate Starts for Riyhil_41:

(15, 31346), (Start: 57 @31124 has 123 MA's), (84, 30980), (Start: 86 @30974 has 1 MA's), (87, 30971), (110, 30857), (114, 30830), (119, 30770), (126, 30743), (127, 30740), (142, 30644), (145, 30602), (161, 30431), (164, 30410), (168, 30395), (170, 30383), (177, 30335), (194, 30275), (212, 30179), (222, 30116), (233, 30062), (245, 29978), (246, 29972), (247, 29960), (254, 29864), (265, 29810), (266, 29807), (270, 29783),

Gene: Robinson_41 Start: 31112, Stop: 29724, Start Num: 57

Candidate Starts for Robinson_41:

(15, 31334), (Start: 57 @31112 has 123 MA's), (84, 30968), (Start: 86 @30962 has 1 MA's), (87, 30959), (110, 30845), (114, 30818), (119, 30758), (126, 30731), (127, 30728), (142, 30632), (145, 30590), (161, 30419), (164, 30398), (168, 30383), (170, 30371), (177, 30323), (194, 30263), (212, 30167), (222, 30104), (233, 30050), (245, 29966), (246, 29960), (247, 29948), (254, 29852), (265, 29798), (266, 29795), (270, 29771),

Gene: Rog141_40 Start: 30803, Stop: 29415, Start Num: 57

Candidate Starts for Rog141_40:

(2, 31454), (7, 31100), (15, 31025), (Start: 57 @30803 has 123 MA's), (84, 30659), (Start: 86 @30653 has 1 MA's), (87, 30650), (110, 30536), (114, 30509), (119, 30449), (126, 30422), (127, 30419), (142, 30323), (145, 30281), (161, 30110), (164, 30089), (168, 30074), (177, 30014), (194, 29954), (212, 29858), (222, 29795), (233, 29741), (245, 29657), (246, 29651), (247, 29639), (254, 29543), (265, 29489), (266, 29486), (270, 29462),

Gene: SJay_41 Start: 31115, Stop: 29727, Start Num: 57

Candidate Starts for SJay_41:

(2, 31766), (7, 31412), (15, 31337), (Start: 57 @31115 has 123 MA's), (84, 30971), (Start: 86 @30965 has 1 MA's), (87, 30962), (110, 30848), (114, 30821), (119, 30761), (126, 30734), (127, 30731), (142, 30635), (145, 30593), (159, 30431), (161, 30422), (164, 30401), (168, 30386), (170, 30374), (177, 30326), (194, 30266), (212, 30170), (222, 30107), (233, 30053), (245, 29969), (246, 29963), (247, 29951), (253, 29876), (254, 29855), (265, 29801), (266, 29798), (270, 29774),

Gene: Sansa_39 Start: 31177, Stop: 29765, Start Num: 61

Candidate Starts for Sansa_39:

(Start: 61 @31177 has 20 MA's), (64, 31147), (Start: 65 @31141 has 1 MA's), (71, 31108), (110, 30916), (114, 30889), (119, 30829), (126, 30802), (127, 30799), (132, 30757), (142, 30703), (145, 30661), (152, 30547), (161, 30490), (164, 30469), (168, 30454), (170, 30442), (171, 30430), (172,

30427), (174, 30409), (186, 30328), (194, 30292), (205, 30238), (212, 30196), (217, 30166), (219, 30151), (220, 30142), (221, 30136), (231, 30094), (240, 30025), (244, 30001), (245, 29995), (246, 29989), (247, 29977), (256, 29872), (258, 29854), (260, 29842), (271, 29797),

Gene: Saratos_40 Start: 30928, Stop: 29516, Start Num: 61

Candidate Starts for Saratos_40:

(Start: 57 @30931 has 123 MA's), (Start: 61 @30928 has 20 MA's), (64, 30898), (Start: 65 @30892 has 1 MA's), (71, 30859), (110, 30667), (114, 30640), (119, 30580), (126, 30553), (127, 30550), (129, 30544), (132, 30508), (138, 30484), (142, 30454), (145, 30412), (152, 30298), (161, 30241), (164, 30220), (168, 30205), (170, 30193), (171, 30181), (172, 30178), (174, 30160), (186, 30079), (194, 30043), (205, 29989), (212, 29947), (217, 29917), (219, 29902), (220, 29893), (221, 29887), (231, 29845), (240, 29776), (244, 29752), (245, 29746), (246, 29740), (247, 29728), (256, 29623), (258, 29605), (260, 29593), (271, 29548),

Gene: Schimmels22_39 Start: 29851, Stop: 28466, Start Num: 59

Candidate Starts for Schimmels22_39:

(Start: 59 @29851 has 19 MA's), (110, 29575), (113, 29554), (126, 29461), (127, 29458), (130, 29437), (132, 29416), (145, 29320), (161, 29149), (165, 29125), (168, 29113), (170, 29101), (171, 29089), (172, 29086), (174, 29068), (177, 29053), (187, 29026), (194, 28993), (200, 28969), (212, 28897), (217, 28867), (222, 28834), (240, 28726), (243, 28717), (244, 28702), (245, 28696), (246, 28690), (247, 28678), (254, 28582), (256, 28573), (260, 28543), (270, 28501),

Gene: Schnapsidee_40 Start: 31262, Stop: 29871, Start Num: 57

Candidate Starts for Schnapsidee_40:

(27, 31364), (28, 31361), (30, 31358), (Start: 57 @31262 has 123 MA's), (84, 31115), (Start: 86 @31109 has 1 MA's), (87, 31106), (110, 30992), (114, 30965), (119, 30905), (126, 30878), (127, 30875), (142, 30779), (145, 30737), (161, 30566), (164, 30545), (170, 30518), (194, 30410), (212, 30314), (233, 30197), (236, 30179), (245, 30113), (246, 30107), (247, 30095), (254, 29999), (265, 29945), (266, 29942), (270, 29918), (277, 29888),

Gene: Schubert_39 Start: 30441, Stop: 29047, Start Num: 57

Candidate Starts for Schubert_39:

(Start: 57 @30441 has 123 MA's), (84, 30297), (Start: 86 @30291 has 1 MA's), (87, 30288), (88, 30285), (114, 30147), (119, 30087), (127, 30057), (142, 29961), (145, 29919), (151, 29808), (161, 29748), (168, 29712), (170, 29700), (178, 29649), (179, 29643), (194, 29592), (198, 29580), (210, 29508), (212, 29496), (222, 29433), (240, 29325), (244, 29301), (245, 29295), (246, 29289), (247, 29277), (252, 29235), (258, 29154), (260, 29142), (271, 29097),

Gene: Sedgewig_40 Start: 30801, Stop: 29413, Start Num: 57

Candidate Starts for Sedgewig_40:

(2, 31452), (7, 31098), (15, 31023), (Start: 57 @30801 has 123 MA's), (84, 30657), (Start: 86 @30651 has 1 MA's), (87, 30648), (106, 30543), (110, 30534), (114, 30507), (119, 30447), (126, 30420), (127, 30417), (142, 30321), (145, 30279), (161, 30108), (164, 30087), (168, 30072), (177, 30012), (194, 29952), (212, 29856), (222, 29793), (233, 29739), (245, 29655), (246, 29649), (247, 29637), (265, 29487), (266, 29484), (270, 29460),

Gene: ShaiHulud_42 Start: 31118, Stop: 29730, Start Num: 57

Candidate Starts for ShaiHulud_42:

(2, 31769), (7, 31415), (15, 31340), (Start: 57 @31118 has 123 MA's), (84, 30974), (Start: 86 @30968 has 1 MA's), (87, 30965), (110, 30851), (114, 30824), (119, 30764), (126, 30737), (127, 30734), (142, 30638), (145, 30596), (161, 30425), (164, 30404), (170, 30377), (177, 30329), (194, 30269), (222, 30110), (233, 30056), (245, 29972), (246, 29966), (247, 29954), (254, 29858), (265, 29804), (266, 29801), (270, 29777),

Gene: Shamu_41 Start: 31107, Stop: 29695, Start Num: 61

Candidate Starts for Shamu_41:

(Start: 57 @31110 has 123 MA's), (Start: 61 @31107 has 20 MA's), (64, 31077), (Start: 65 @31071 has 1 MA's), (71, 31038), (110, 30846), (114, 30819), (119, 30759), (126, 30732), (127, 30729), (132, 30687), (138, 30663), (142, 30633), (145, 30591), (152, 30477), (161, 30420), (164, 30399), (168, 30384), (170, 30372), (171, 30360), (172, 30357), (174, 30339), (186, 30258), (194, 30222), (205, 30168), (212, 30126), (217, 30096), (220, 30072), (221, 30066), (231, 30024), (240, 29955), (244, 29931), (245, 29925), (246, 29919), (247, 29907), (254, 29811), (256, 29802), (258, 29784), (260, 29772), (271, 29727),

Gene: SheckWes_60 Start: 40367, Stop: 38889, Start Num: 46

Candidate Starts for SheckWes_60:

(22, 40448), (34, 40394), (Start: 46 @40367 has 18 MA's), (54, 40304), (Start: 59 @40283 has 19 MA's), (Start: 61 @40277 has 20 MA's), (63, 40250), (73, 40196), (Start: 77 @40175 has 1 MA's), (81, 40160), (83, 40145), (98, 40064), (104, 40040), (116, 39953), (127, 39917), (135, 39863), (137, 39857), (138, 39851), (146, 39773), (147, 39758), (151, 39668), (153, 39659), (157, 39632), (167, 39569), (168, 39560), (170, 39548), (173, 39527), (175, 39512), (176, 39503), (181, 39482), (190, 39443), (193, 39434), (197, 39419), (205, 39377), (210, 39347), (217, 39299), (218, 39296), (224, 39254), (227, 39236), (243, 39140), (248, 39089), (252, 39059), (253, 39026), (259, 38969), (264, 38954),

Gene: Shee_41 Start: 31111, Stop: 29723, Start Num: 57

Candidate Starts for Shee_41:

(2, 31762), (7, 31408), (15, 31333), (Start: 57 @31111 has 123 MA's), (84, 30967), (Start: 86 @30961 has 1 MA's), (87, 30958), (110, 30844), (114, 30817), (119, 30757), (126, 30730), (127, 30727), (142, 30631), (145, 30589), (159, 30427), (161, 30418), (164, 30397), (168, 30382), (170, 30370), (177, 30322), (194, 30262), (212, 30166), (222, 30103), (233, 30049), (245, 29965), (246, 29959), (247, 29947), (254, 29851), (265, 29797), (266, 29794), (270, 29770),

Gene: Sinatra_40 Start: 30565, Stop: 29183, Start Num: 57

Candidate Starts for Sinatra_40:

(52, 30592), (Start: 57 @30565 has 123 MA's), (Start: 61 @30562 has 20 MA's), (64, 30532), (84, 30424), (Start: 86 @30418 has 1 MA's), (87, 30415), (90, 30400), (119, 30214), (120, 30205), (127, 30184), (132, 30142), (142, 30088), (161, 29875), (164, 29854), (168, 29839), (170, 29827), (172, 29812), (178, 29776), (180, 29767), (186, 29752), (194, 29716), (213, 29617), (222, 29554), (228, 29527), (239, 29452), (240, 29446), (243, 29437), (244, 29422), (245, 29416), (246, 29410), (247, 29398), (258, 29275), (260, 29263),

Gene: SirVictor_40 Start: 30629, Stop: 29241, Start Num: 61

Candidate Starts for SirVictor_40:

(Start: 57 @30632 has 123 MA's), (Start: 61 @30629 has 20 MA's), (64, 30599), (84, 30491), (87, 30482), (95, 30428), (113, 30347), (119, 30281), (127, 30251), (133, 30206), (142, 30155), (159, 29951), (161, 29942), (168, 29903), (170, 29891), (171, 29879), (172, 29876), (178, 29840), (180, 29831), (186, 29816), (194, 29780), (198, 29768), (200, 29756), (213, 29681), (222, 29621), (240, 29513), (243, 29504), (244, 29489), (245, 29483), (246, 29477), (278, 29255),

Gene: SketchMex_53 Start: 38648, Stop: 37170, Start Num: 43

Candidate Starts for SketchMex_53:

(Start: 43 @38648 has 29 MA's), (Start: 59 @38561 has 19 MA's), (Start: 61 @38555 has 20 MA's), (69, 38504), (Start: 77 @38453 has 1 MA's), (81, 38438), (96, 38354), (101, 38330), (104, 38321), (127, 38198), (135, 38144), (137, 38138), (138, 38132), (146, 38054), (153, 37940), (157, 37913), (161, 37889), (173, 37808), (176, 37784), (181, 37763), (190, 37724), (195, 37706), (197, 37700),

(216, 37589), (218, 37583), (224, 37541), (227, 37523), (240, 37436), (243, 37427), (245, 37406), (248, 37376), (252, 37346), (253, 37313), (267, 37223),

Gene: SoilGremlin_42 Start: 31117, Stop: 29729, Start Num: 57

Candidate Starts for SoilGremlin_42:

(15, 31339), (Start: 57 @31117 has 123 MA's), (84, 30973), (Start: 86 @30967 has 1 MA's), (87, 30964), (110, 30850), (114, 30823), (119, 30763), (126, 30736), (127, 30733), (129, 30727), (142, 30637), (145, 30595), (161, 30424), (168, 30388), (170, 30376), (174, 30343), (177, 30328), (194, 30268), (212, 30172), (222, 30109), (233, 30055), (245, 29971), (246, 29965), (247, 29953), (254, 29857), (265, 29803), (266, 29800), (270, 29776),

Gene: SonOfLevi_41 Start: 30834, Stop: 29413, Start Num: 57

Candidate Starts for SonOfLevi_41:

(15, 31056), (Start: 57 @30834 has 123 MA's), (84, 30690), (Start: 86 @30684 has 1 MA's), (87, 30681), (110, 30567), (114, 30540), (119, 30480), (126, 30453), (127, 30450), (142, 30354), (145, 30312), (159, 30150), (161, 30141), (164, 30120), (170, 30093), (174, 30060), (177, 30045), (189, 29970), (194, 29952), (212, 29856), (222, 29793), (233, 29739), (245, 29655), (246, 29649), (247, 29637), (253, 29562), (254, 29541), (265, 29487), (266, 29484), (270, 29460),

Gene: Sopespian_50 Start: 38728, Stop: 37250, Start Num: 43

Candidate Starts for Sopespian_50:

(Start: 43 @38728 has 29 MA's), (Start: 59 @38641 has 19 MA's), (Start: 61 @38635 has 20 MA's), (73, 38554), (Start: 77 @38533 has 1 MA's), (101, 38410), (102, 38407), (135, 38224), (137, 38218), (138, 38212), (146, 38134), (153, 38020), (157, 37993), (161, 37969), (170, 37909), (176, 37864), (181, 37843), (190, 37804), (195, 37786), (216, 37669), (224, 37621), (225, 37618), (227, 37603), (243, 37507), (245, 37486), (248, 37456),

Gene: Stanktossa_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Stanktossa_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (151, 30481), (161, 30421), (168, 30385), (170, 30373), (174, 30340), (177, 30325), (194, 30265), (212, 30169), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: SteamedHams_54 Start: 38292, Stop: 36814, Start Num: 43

Candidate Starts for SteamedHams_54:

(Start: 43 @38292 has 29 MA's), (Start: 61 @38199 has 20 MA's), (63, 38172), (Start: 77 @38097 has 1 MA's), (Start: 86 @38055 has 1 MA's), (101, 37974), (127, 37842), (135, 37788), (138, 37776), (146, 37698), (153, 37584), (157, 37557), (161, 37533), (167, 37494), (176, 37428), (181, 37407), (195, 37350), (216, 37233), (224, 37185), (227, 37167), (243, 37071), (245, 37050), (248, 37020),

Gene: StingRay_40 Start: 30819, Stop: 29431, Start Num: 57

Candidate Starts for StingRay_40:

(15, 31041), (Start: 57 @30819 has 123 MA's), (84, 30675), (Start: 86 @30669 has 1 MA's), (87, 30666), (110, 30552), (114, 30525), (119, 30465), (126, 30438), (127, 30435), (142, 30339), (145, 30297), (161, 30126), (164, 30105), (168, 30090), (177, 30030), (188, 29997), (194, 29970), (212, 29874), (222, 29811), (233, 29757), (245, 29673), (246, 29667), (247, 29655), (254, 29559), (265, 29505), (266, 29502), (270, 29478),

Gene: StirfryIV_42 Start: 30812, Stop: 29424, Start Num: 57

Candidate Starts for StirfryIV_42:

(2, 31463), (7, 31109), (15, 31034), (Start: 57 @30812 has 123 MA's), (84, 30668), (Start: 86 @30662 has 1 MA's), (87, 30659), (110, 30545), (114, 30518), (119, 30458), (126, 30431), (127, 30428), (142, 30332), (145, 30290), (161, 30119), (164, 30098), (168, 30083), (177, 30023), (194, 29963), (212, 29867), (222, 29804), (233, 29750), (245, 29666), (246, 29660), (247, 29648), (254, 29552), (265, 29498), (266, 29495), (270, 29471),

Gene: Stormbreaker8_40 Start: 31269, Stop: 29878, Start Num: 57

Candidate Starts for Stormbreaker8_40:

(6, 31557), (8, 31536), (Start: 57 @31269 has 123 MA's), (84, 31122), (Start: 86 @31116 has 1 MA's), (87, 31113), (96, 31053), (110, 30999), (114, 30972), (119, 30912), (126, 30885), (127, 30882), (142, 30786), (145, 30744), (161, 30573), (164, 30552), (194, 30417), (212, 30321), (233, 30204), (236, 30186), (245, 30120), (246, 30114), (247, 30102), (254, 30006), (265, 29952), (266, 29949), (270, 29925), (277, 29895),

Gene: Strathdee_41 Start: 31119, Stop: 29731, Start Num: 57

Candidate Starts for Strathdee_41:

(2, 31770), (7, 31416), (15, 31341), (Start: 57 @31119 has 123 MA's), (84, 30975), (Start: 86 @30969 has 1 MA's), (87, 30966), (110, 30852), (114, 30825), (119, 30765), (126, 30738), (127, 30735), (142, 30639), (145, 30597), (161, 30426), (164, 30405), (170, 30378), (177, 30330), (194, 30270), (222, 30111), (233, 30057), (245, 29973), (246, 29967), (247, 29955), (254, 29859), (265, 29805), (266, 29802), (270, 29778),

Gene: SummitAcademy_56 Start: 40461, Stop: 38983, Start Num: 46

Candidate Starts for SummitAcademy_56:

(22, 40539), (32, 40488), (34, 40485), (Start: 46 @40461 has 18 MA's), (54, 40398), (Start: 59 @40377 has 19 MA's), (Start: 61 @40371 has 20 MA's), (63, 40344), (73, 40290), (81, 40254), (83, 40239), (101, 40143), (104, 40134), (107, 40113), (116, 40047), (127, 40011), (135, 39957), (137, 39951), (138, 39945), (146, 39867), (147, 39852), (153, 39753), (163, 39678), (168, 39654), (170, 39642), (173, 39621), (175, 39606), (176, 39597), (181, 39576), (190, 39537), (193, 39528), (197, 39513), (208, 39462), (218, 39390), (224, 39348), (225, 39345), (227, 39330), (243, 39234), (248, 39183), (252, 39153), (253, 39120), (259, 39063), (264, 39048),

Gene: Superfresh_41 Start: 31109, Stop: 29721, Start Num: 57

Candidate Starts for Superfresh_41:

(15, 31331), (Start: 57 @31109 has 123 MA's), (84, 30965), (Start: 86 @30959 has 1 MA's), (87, 30956), (110, 30842), (114, 30815), (119, 30755), (126, 30728), (127, 30725), (142, 30629), (145, 30587), (161, 30416), (164, 30395), (168, 30380), (170, 30368), (177, 30320), (194, 30260), (212, 30164), (222, 30101), (233, 30047), (245, 29963), (246, 29957), (247, 29945), (253, 29870), (254, 29849), (265, 29795), (266, 29792), (270, 29768),

Gene: Survivors_49 Start: 37834, Stop: 36344, Start Num: 43

Candidate Starts for Survivors_49:

(Start: 43 @37834 has 29 MA's), (Start: 61 @37744 has 20 MA's), (63, 37717), (72, 37675), (79, 37633), (81, 37627), (Start: 86 @37600 has 1 MA's), (101, 37519), (102, 37516), (104, 37510), (107, 37489), (116, 37423), (135, 37333), (138, 37321), (144, 37258), (146, 37243), (147, 37228), (156, 37111), (157, 37102), (169, 37024), (173, 36997), (174, 36985), (176, 36973), (186, 36934), (190, 36913), (191, 36910), (195, 36895), (208, 36823), (224, 36709), (232, 36664), (234, 36649), (238, 36619), (243, 36595), (248, 36544), (252, 36514), (257, 36448), (259, 36424), (267, 36391), (274, 36355),

Gene: SweatNTears_55 Start: 38970, Stop: 37492, Start Num: 43

Candidate Starts for SweatNTears_55:

(Start: 43 @38970 has 29 MA's), (Start: 59 @38883 has 19 MA's), (Start: 61 @38877 has 20 MA's), (73, 38796), (101, 38652), (102, 38649), (135, 38466), (137, 38460), (138, 38454), (146, 38376), (153, 38262), (157, 38235), (161, 38211), (170, 38151), (176, 38106), (181, 38085), (190, 38046), (195, 38028), (216, 37911), (224, 37863), (225, 37860), (227, 37845), (243, 37749), (245, 37728), (248, 37698),

Gene: TatarkaPM_41 Start: 31124, Stop: 29736, Start Num: 57

Candidate Starts for TatarkaPM_41:

(2, 31775), (7, 31421), (15, 31346), (Start: 57 @31124 has 123 MA's), (84, 30980), (Start: 86 @30974 has 1 MA's), (87, 30971), (110, 30857), (114, 30830), (119, 30770), (126, 30743), (127, 30740), (142, 30644), (145, 30602), (159, 30440), (161, 30431), (164, 30410), (168, 30395), (170, 30383), (177, 30335), (194, 30275), (212, 30179), (222, 30116), (233, 30062), (245, 29978), (246, 29972), (247, 29960), (254, 29864), (265, 29810), (266, 29807), (270, 29783),

Gene: Teagan_41 Start: 31114, Stop: 29726, Start Num: 57

Candidate Starts for Teagan_41:

(2, 31765), (7, 31411), (15, 31336), (Start: 57 @31114 has 123 MA's), (84, 30970), (Start: 86 @30964 has 1 MA's), (87, 30961), (110, 30847), (114, 30820), (119, 30760), (126, 30733), (127, 30730), (142, 30634), (145, 30592), (161, 30421), (164, 30400), (170, 30373), (177, 30325), (194, 30265), (222, 30106), (233, 30052), (245, 29968), (246, 29962), (247, 29950), (254, 29854), (265, 29800), (266, 29797), (270, 29773),

Gene: TeddyBear_40 Start: 30816, Stop: 29428, Start Num: 57

Candidate Starts for TeddyBear_40:

(15, 31038), (Start: 57 @30816 has 123 MA's), (84, 30672), (Start: 86 @30666 has 1 MA's), (87, 30663), (110, 30549), (114, 30522), (119, 30462), (126, 30435), (127, 30432), (141, 30339), (142, 30336), (145, 30294), (161, 30123), (164, 30102), (168, 30087), (170, 30075), (177, 30027), (194, 29967), (212, 29871), (222, 29808), (233, 29754), (245, 29670), (246, 29664), (247, 29652), (253, 29577), (254, 29556), (265, 29502), (266, 29499), (270, 29475),

Gene: Tenda_40 Start: 30814, Stop: 29426, Start Num: 57

Candidate Starts for Tenda_40:

(15, 31036), (Start: 57 @30814 has 123 MA's), (84, 30670), (Start: 86 @30664 has 1 MA's), (87, 30661), (110, 30547), (114, 30520), (119, 30460), (126, 30433), (127, 30430), (142, 30334), (145, 30292), (161, 30121), (164, 30100), (168, 30085), (177, 30025), (194, 29965), (212, 29869), (222, 29806), (233, 29752), (245, 29668), (246, 29662), (247, 29650), (254, 29554), (265, 29500), (266, 29497), (270, 29473),

Gene: Thompsone_41 Start: 31121, Stop: 29733, Start Num: 57

Candidate Starts for Thompsone_41:

(2, 31772), (7, 31418), (15, 31343), (Start: 57 @31121 has 123 MA's), (84, 30977), (Start: 86 @30971 has 1 MA's), (87, 30968), (110, 30854), (114, 30827), (119, 30767), (126, 30740), (127, 30737), (142, 30641), (145, 30599), (161, 30428), (164, 30407), (170, 30380), (177, 30332), (194, 30272), (222, 30113), (233, 30059), (245, 29975), (246, 29969), (247, 29957), (253, 29882), (254, 29861), (265, 29807), (266, 29804), (270, 29780),

Gene: Thorongil_41 Start: 31121, Stop: 29733, Start Num: 57

Candidate Starts for Thorongil_41:

(33, 31220), (35, 31217), (37, 31214), (56, 31130), (Start: 57 @31121 has 123 MA's), (84, 30977), (Start: 86 @30971 has 1 MA's), (87, 30968), (110, 30854), (114, 30827), (119, 30767), (126, 30740), (127, 30737), (142, 30641), (145, 30599), (161, 30428), (164, 30407), (168, 30392), (170, 30380), (177, 30332), (194, 30272), (222, 30113), (233, 30059), (245, 29975), (246, 29969), (247, 29957), (253, 29882), (254, 29861), (265, 29807), (266, 29804), (270, 29780),

Gene: TinSulphur_42 Start: 31120, Stop: 29732, Start Num: 57

Candidate Starts for TinSulphur_42:

(2, 31771), (7, 31417), (15, 31342), (Start: 57 @31120 has 123 MA's), (84, 30976), (Start: 86 @30970 has 1 MA's), (87, 30967), (110, 30853), (114, 30826), (119, 30766), (126, 30739), (127, 30736), (142, 30640), (145, 30598), (159, 30436), (161, 30427), (164, 30406), (168, 30391), (170, 30379), (177, 30331), (194, 30271), (212, 30175), (222, 30112), (233, 30058), (245, 29974), (246, 29968), (247, 29956), (254, 29860), (265, 29806), (266, 29803), (270, 29779),

Gene: Tinyman4_39 Start: 29477, Stop: 28092, Start Num: 59

Candidate Starts for Tinyman4_39:

(Start: 59 @29477 has 19 MA's), (96, 29264), (110, 29201), (113, 29180), (126, 29087), (127, 29084), (130, 29063), (132, 29042), (145, 28946), (161, 28775), (165, 28751), (168, 28739), (170, 28727), (171, 28715), (172, 28712), (174, 28694), (177, 28679), (194, 28619), (198, 28607), (200, 28595), (212, 28523), (217, 28493), (222, 28460), (240, 28352), (243, 28343), (244, 28328), (245, 28322), (246, 28316), (247, 28304), (254, 28208), (256, 28199), (260, 28169), (270, 28127),

Gene: Tolls_54 Start: 38563, Stop: 37085, Start Num: 43

Candidate Starts for Tolls_54:

(Start: 43 @38563 has 29 MA's), (Start: 61 @38470 has 20 MA's), (63, 38443), (Start: 77 @38368 has 1 MA's), (Start: 86 @38326 has 1 MA's), (101, 38245), (127, 38113), (135, 38059), (138, 38047), (146, 37969), (153, 37855), (157, 37828), (161, 37804), (176, 37699), (181, 37678), (190, 37639), (195, 37621), (197, 37615), (216, 37504), (224, 37456), (227, 37438), (243, 37342), (245, 37321), (248, 37291),

Gene: Triscuit_58 Start: 36727, Stop: 38280, Start Num: 42

Candidate Starts for Triscuit_58:

(Start: 42 @36727 has 1 MA's), (Start: 43 @36730 has 29 MA's), (Start: 61 @36826 has 20 MA's), (64, 36856), (72, 36895), (76, 36922), (79, 36937), (89, 36982), (91, 36991), (94, 37021), (112, 37105), (122, 37189), (124, 37198), (125, 37201), (142, 37321), (143, 37336), (148, 37423), (156, 37513), (174, 37636), (176, 37648), (199, 37735), (214, 37834), (216, 37852), (238, 37990), (267, 38218), (269, 38227), (270, 38230),

Gene: Troje_55 Start: 38986, Stop: 37508, Start Num: 43

Candidate Starts for Troje_55:

(Start: 43 @38986 has 29 MA's), (Start: 59 @38899 has 19 MA's), (Start: 61 @38893 has 20 MA's), (69, 38842), (Start: 77 @38791 has 1 MA's), (81, 38776), (96, 38692), (101, 38668), (104, 38659), (127, 38536), (135, 38482), (137, 38476), (138, 38470), (142, 38440), (146, 38392), (153, 38278), (157, 38251), (161, 38227), (173, 38146), (176, 38122), (181, 38101), (190, 38062), (195, 38044), (197, 38038), (216, 37927), (218, 37921), (224, 37879), (227, 37861), (240, 37774), (243, 37765), (245, 37744), (248, 37714), (252, 37684), (253, 37651), (267, 37561),

Gene: Typhonomachy_53 Start: 38552, Stop: 37074, Start Num: 43

Candidate Starts for Typhonomachy_53:

(Start: 43 @38552 has 29 MA's), (Start: 59 @38465 has 19 MA's), (Start: 61 @38459 has 20 MA's), (73, 38378), (Start: 77 @38357 has 1 MA's), (102, 38231), (135, 38048), (137, 38042), (138, 38036), (146, 37958), (153, 37844), (157, 37817), (161, 37793), (170, 37733), (176, 37688), (181, 37667), (190, 37628), (195, 37610), (216, 37493), (224, 37445), (225, 37442), (227, 37427), (243, 37331), (245, 37310), (248, 37280),

Gene: Velene_41 Start: 31119, Stop: 29731, Start Num: 57

Candidate Starts for Velene_41:

(2, 31770), (7, 31416), (15, 31341), (Start: 57 @31119 has 123 MA's), (84, 30975), (Start: 86 @30969 has 1 MA's), (87, 30966), (110, 30852), (114, 30825), (119, 30765), (126, 30738), (127, 30735), (142, 30639), (145, 30597), (161, 30426), (164, 30405), (170, 30378), (177, 30330), (194, 30270), (222, 30111), (233, 30057), (245, 29973), (246, 29967), (247, 29955), (254, 29859), (265, 29805), (266, 29802), (270, 29778),

Gene: Vine_59 Start: 41084, Stop: 39606, Start Num: 46

Candidate Starts for Vine_59:

(22, 41162), (32, 41111), (34, 41108), (Start: 46 @41084 has 18 MA's), (54, 41021), (Start: 59 @41000 has 19 MA's), (Start: 61 @40994 has 20 MA's), (63, 40967), (73, 40913), (81, 40877), (83, 40862), (101, 40766), (104, 40757), (107, 40736), (116, 40670), (127, 40634), (135, 40580), (137, 40574), (138, 40568), (146, 40490), (147, 40475), (153, 40376), (163, 40301), (168, 40277), (170, 40265), (173, 40244), (175, 40229), (176, 40220), (181, 40199), (190, 40160), (193, 40151), (197, 40136), (208, 40085), (217, 40016), (218, 40013), (224, 39971), (227, 39953), (243, 39857), (248, 39806), (252, 39776), (253, 39743), (259, 39686), (264, 39671),

Gene: Vispitious_42 Start: 31121, Stop: 29733, Start Num: 57

Candidate Starts for Vispitious_42:

(2, 31772), (7, 31418), (15, 31343), (Start: 57 @31121 has 123 MA's), (84, 30977), (Start: 86 @30971 has 1 MA's), (87, 30968), (110, 30854), (114, 30827), (119, 30767), (126, 30740), (127, 30737), (142, 30641), (145, 30599), (161, 30428), (164, 30407), (170, 30380), (177, 30332), (194, 30272), (222, 30113), (233, 30059), (245, 29975), (246, 29969), (247, 29957), (254, 29861), (265, 29807), (266, 29804), (270, 29780),

Gene: WestPM_37 Start: 29337, Stop: 27952, Start Num: 58

Candidate Starts for WestPM_37:

(Start: 58 @29337 has 1 MA's), (96, 29124), (110, 29061), (113, 29040), (126, 28947), (127, 28944), (130, 28923), (132, 28902), (145, 28806), (152, 28692), (156, 28668), (161, 28635), (165, 28611), (168, 28599), (170, 28587), (171, 28575), (172, 28572), (174, 28554), (187, 28512), (194, 28479), (198, 28467), (200, 28455), (212, 28383), (240, 28212), (243, 28203), (244, 28188), (245, 28182), (246, 28176), (254, 28068), (256, 28059), (260, 28029), (268, 27996), (270, 27987),

Gene: WildNOut_41 Start: 31117, Stop: 29729, Start Num: 57

Candidate Starts for WildNOut_41:

(2, 31768), (7, 31414), (15, 31339), (Start: 57 @31117 has 123 MA's), (84, 30973), (Start: 86 @30967 has 1 MA's), (87, 30964), (110, 30850), (114, 30823), (119, 30763), (126, 30736), (127, 30733), (142, 30637), (145, 30595), (161, 30424), (164, 30403), (170, 30376), (177, 30328), (194, 30268), (222, 30109), (233, 30055), (245, 29971), (246, 29965), (247, 29953), (254, 29857), (265, 29803), (266, 29800), (270, 29776),

Gene: WilliamStrong_40 Start: 30915, Stop: 29497, Start Num: 59

Candidate Starts for WilliamStrong_40:

(Start: 59 @30915 has 19 MA's), (Start: 61 @30909 has 20 MA's), (62, 30885), (Start: 77 @30807 has 1 MA's), (85, 30768), (Start: 86 @30765 has 1 MA's), (96, 30702), (105, 30651), (111, 30630), (114, 30612), (115, 30573), (126, 30525), (127, 30522), (128, 30519), (132, 30480), (140, 30429), (152, 30267), (159, 30219), (160, 30216), (161, 30210), (164, 30189), (171, 30150), (174, 30129), (194, 30015), (198, 30003), (205, 29961), (211, 29928), (212, 29919), (222, 29856), (240, 29748), (243, 29739), (244, 29724), (245, 29718), (246, 29712), (247, 29700), (258, 29577), (260, 29565),

Gene: Winzigespinne_40 Start: 30802, Stop: 29414, Start Num: 57

Candidate Starts for Winzigespinne_40:

(15, 31024), (Start: 57 @30802 has 123 MA's), (84, 30658), (Start: 86 @30652 has 1 MA's), (87, 30649), (110, 30535), (114, 30508), (119, 30448), (126, 30421), (127, 30418), (142, 30322), (145,

30280), (161, 30109), (164, 30088), (168, 30073), (170, 30061), (177, 30013), (194, 29953), (212, 29857), (222, 29794), (233, 29740), (245, 29656), (246, 29650), (247, 29638), (253, 29563), (265, 29488), (266, 29485), (270, 29461),

Gene: Yakult_55 Start: 39767, Stop: 38292, Start Num: 46

Candidate Starts for Yakult_55:

(Start: 46 @39767 has 18 MA's), (51, 39725), (Start: 61 @39677 has 20 MA's), (63, 39650), (69, 39626), (73, 39596), (Start: 77 @39575 has 1 MA's), (79, 39566), (81, 39560), (96, 39476), (98, 39467), (99, 39458), (102, 39449), (104, 39443), (127, 39320), (135, 39266), (137, 39260), (138, 39254), (143, 39209), (146, 39176), (167, 38972), (168, 38963), (180, 38891), (190, 38846), (195, 38828), (197, 38822), (206, 38777), (208, 38771), (210, 38750), (217, 38702), (218, 38699), (224, 38657), (225, 38654), (227, 38639), (243, 38543), (248, 38492), (253, 38429), (258, 38381), (263, 38360), (274, 38303),

Gene: Yarn_50 Start: 38320, Stop: 36842, Start Num: 43

Candidate Starts for Yarn_50:

(Start: 43 @38320 has 29 MA's), (Start: 61 @38227 has 20 MA's), (63, 38200), (Start: 77 @38125 has 1 MA's), (Start: 86 @38083 has 1 MA's), (101, 38002), (127, 37870), (135, 37816), (138, 37804), (146, 37726), (153, 37612), (157, 37585), (161, 37561), (167, 37522), (176, 37456), (181, 37435), (195, 37378), (216, 37261), (224, 37213), (227, 37195), (243, 37099), (245, 37078), (248, 37048),

Gene: Yummy_55 Start: 38695, Stop: 37217, Start Num: 43

Candidate Starts for Yummy_55:

(Start: 43 @38695 has 29 MA's), (Start: 59 @38608 has 19 MA's), (Start: 61 @38602 has 20 MA's), (69, 38551), (Start: 77 @38500 has 1 MA's), (81, 38485), (96, 38401), (101, 38377), (104, 38368), (127, 38245), (135, 38191), (137, 38185), (138, 38179), (142, 38149), (146, 38101), (153, 37987), (157, 37960), (161, 37936), (173, 37855), (176, 37831), (181, 37810), (190, 37771), (195, 37753), (197, 37747), (216, 37636), (218, 37630), (224, 37588), (227, 37570), (240, 37483), (243, 37474), (245, 37453), (248, 37423), (252, 37393), (253, 37360), (260, 37300), (267, 37270),

Gene: YuuY_40 Start: 31212, Stop: 29842, Start Num: 61

Candidate Starts for YuuY_40:

(Start: 61 @31212 has 20 MA's), (71, 31143), (88, 31062), (110, 30951), (114, 30924), (119, 30864), (126, 30837), (127, 30834), (142, 30738), (152, 30582), (161, 30525), (164, 30504), (168, 30489), (170, 30477), (171, 30465), (173, 30456), (174, 30444), (177, 30429), (184, 30405), (194, 30369), (197, 30360), (205, 30315), (212, 30273), (222, 30210), (226, 30198), (231, 30171), (240, 30102), (243, 30093), (244, 30078), (245, 30072), (246, 30066), (247, 30054), (254, 29958), (256, 29949), (258, 29931), (260, 29919),

Gene: Zada_42 Start: 31090, Stop: 29702, Start Num: 57

Candidate Starts for Zada_42:

(7, 31387), (15, 31312), (Start: 57 @31090 has 123 MA's), (84, 30946), (Start: 86 @30940 has 1 MA's), (87, 30937), (110, 30823), (114, 30796), (119, 30736), (126, 30709), (127, 30706), (142, 30610), (145, 30568), (151, 30457), (161, 30397), (168, 30361), (170, 30349), (177, 30301), (194, 30241), (212, 30145), (222, 30082), (233, 30028), (245, 29944), (246, 29938), (247, 29926), (254, 29830), (265, 29776), (266, 29773), (270, 29749),

Gene: Zareef_51 Start: 37928, Stop: 36438, Start Num: 43

Candidate Starts for Zareef_51:

(Start: 43 @37928 has 29 MA's), (Start: 61 @37838 has 20 MA's), (63, 37811), (72, 37769), (79, 37727), (81, 37721), (Start: 86 @37694 has 1 MA's), (101, 37613), (102, 37610), (104, 37604), (107, 37583), (116, 37517), (135, 37427), (138, 37415), (144, 37352), (146, 37337), (147, 37322), (156, 37205), (157, 37196), (169, 37118), (173, 37091), (174, 37079), (176, 37067), (186, 37028), (190,

37007), (191, 37004), (195, 36989), (208, 36917), (217, 36848), (224, 36803), (232, 36758), (234, 36743), (238, 36713), (243, 36689), (248, 36638), (252, 36608), (257, 36542), (259, 36518), (267, 36485), (274, 36449),

Gene: Zayuliv_40 Start: 29694, Stop: 28267, Start Num: 59

Candidate Starts for Zayuliv_40:

(Start: 59 @29694 has 19 MA's), (62, 29664), (64, 29658), (Start: 86 @29544 has 1 MA's), (87, 29541), (88, 29538), (126, 29304), (127, 29301), (152, 29046), (160, 28995), (161, 28989), (170, 28941), (174, 28908), (194, 28794), (197, 28785), (205, 28740), (207, 28734), (211, 28707), (222, 28635), (236, 28563), (240, 28527), (243, 28518), (244, 28503), (245, 28497), (247, 28479), (252, 28437), (256, 28374), (270, 28302),

Gene: Zenitsu_40 Start: 30973, Stop: 29561, Start Num: 61

Candidate Starts for Zenitsu_40:

(Start: 57 @30976 has 123 MA's), (Start: 61 @30973 has 20 MA's), (64, 30943), (Start: 65 @30937 has 1 MA's), (71, 30904), (110, 30712), (114, 30685), (119, 30625), (126, 30598), (127, 30595), (132, 30553), (142, 30499), (145, 30457), (152, 30343), (161, 30286), (164, 30265), (168, 30250), (170, 30238), (171, 30226), (172, 30223), (174, 30205), (186, 30124), (194, 30088), (205, 30034), (212, 29992), (217, 29962), (219, 29947), (220, 29938), (221, 29932), (231, 29890), (240, 29821), (244, 29797), (245, 29791), (246, 29785), (247, 29773), (254, 29677), (256, 29668), (258, 29650), (260, 29638), (262, 29632), (271, 29593),

Gene: Zepp_40 Start: 29128, Stop: 27701, Start Num: 59

Candidate Starts for Zepp_40:

(Start: 59 @29128 has 19 MA's), (62, 29098), (64, 29092), (Start: 86 @28978 has 1 MA's), (87, 28975), (117, 28774), (126, 28738), (127, 28735), (152, 28480), (160, 28429), (161, 28423), (170, 28375), (171, 28363), (174, 28342), (188, 28255), (194, 28228), (197, 28219), (205, 28174), (211, 28141), (219, 28087), (222, 28069), (236, 27997), (240, 27961), (243, 27952), (244, 27937), (245, 27931), (247, 27913), (256, 27808), (270, 27736),

Gene: Zuko_72 Start: 51866, Stop: 53398, Start Num: 36

Candidate Starts for Zuko_72:

(20, 51788), (Start: 36 @51866 has 2 MA's), (48, 51899), (Start: 61 @51986 has 20 MA's), (67, 52028), (68, 52034), (69, 52037), (70, 52043), (74, 52070), (78, 52091), (79, 52097), (87, 52133), (93, 52175), (97, 52196), (99, 52211), (101, 52217), (102, 52220), (126, 52364), (127, 52370), (128, 52373), (135, 52424), (137, 52430), (138, 52436), (140, 52460), (143, 52481), (146, 52514), (149, 52577), (150, 52586), (155, 52649), (169, 52745), (173, 52772), (174, 52784), (176, 52796), (177, 52799), (208, 52916), (220, 53012), (224, 53030), (229, 53054), (240, 53135), (241, 53138), (242, 53141), (248, 53195), (252, 53225), (255, 53282), (258, 53306), (261, 53321),