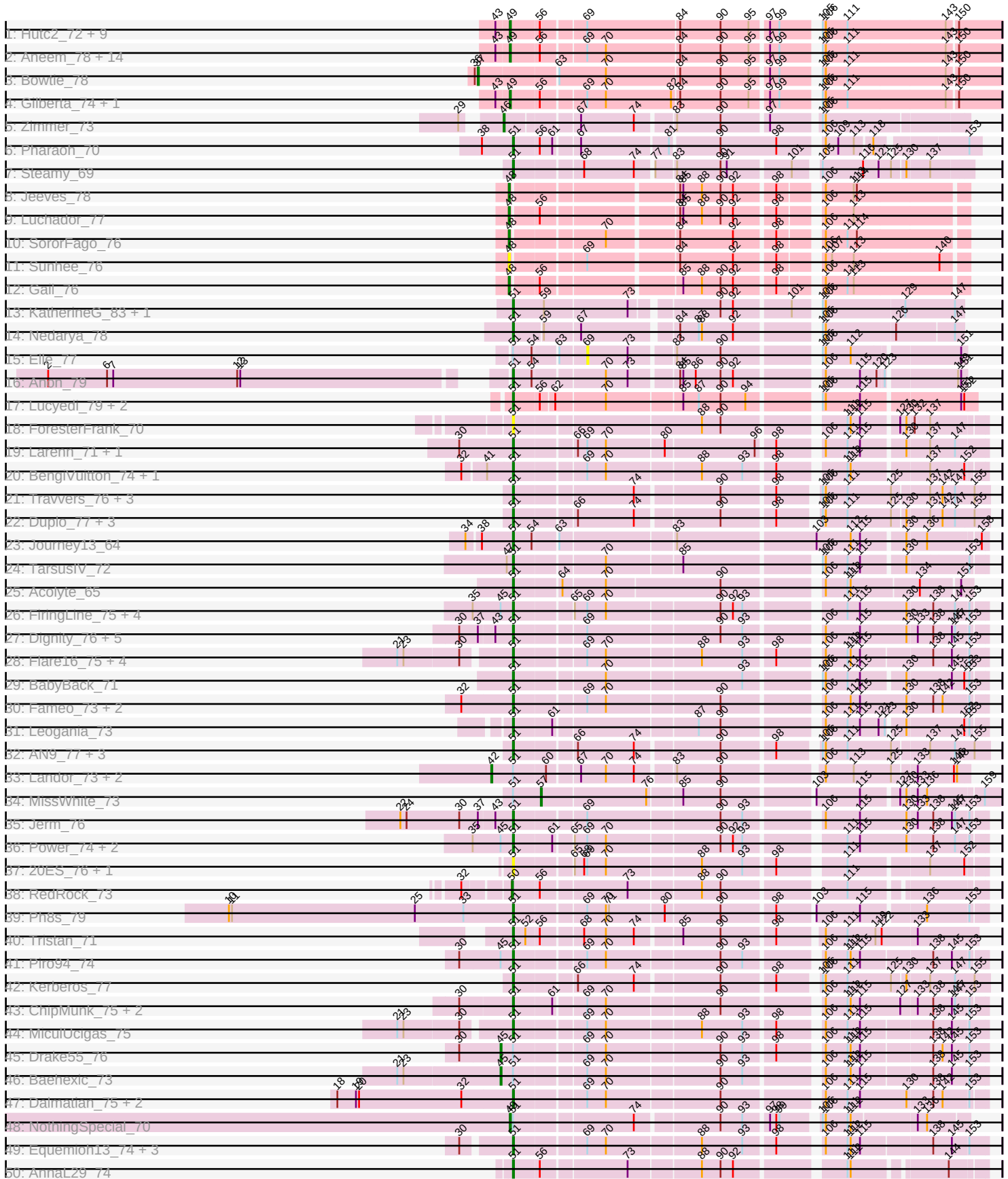
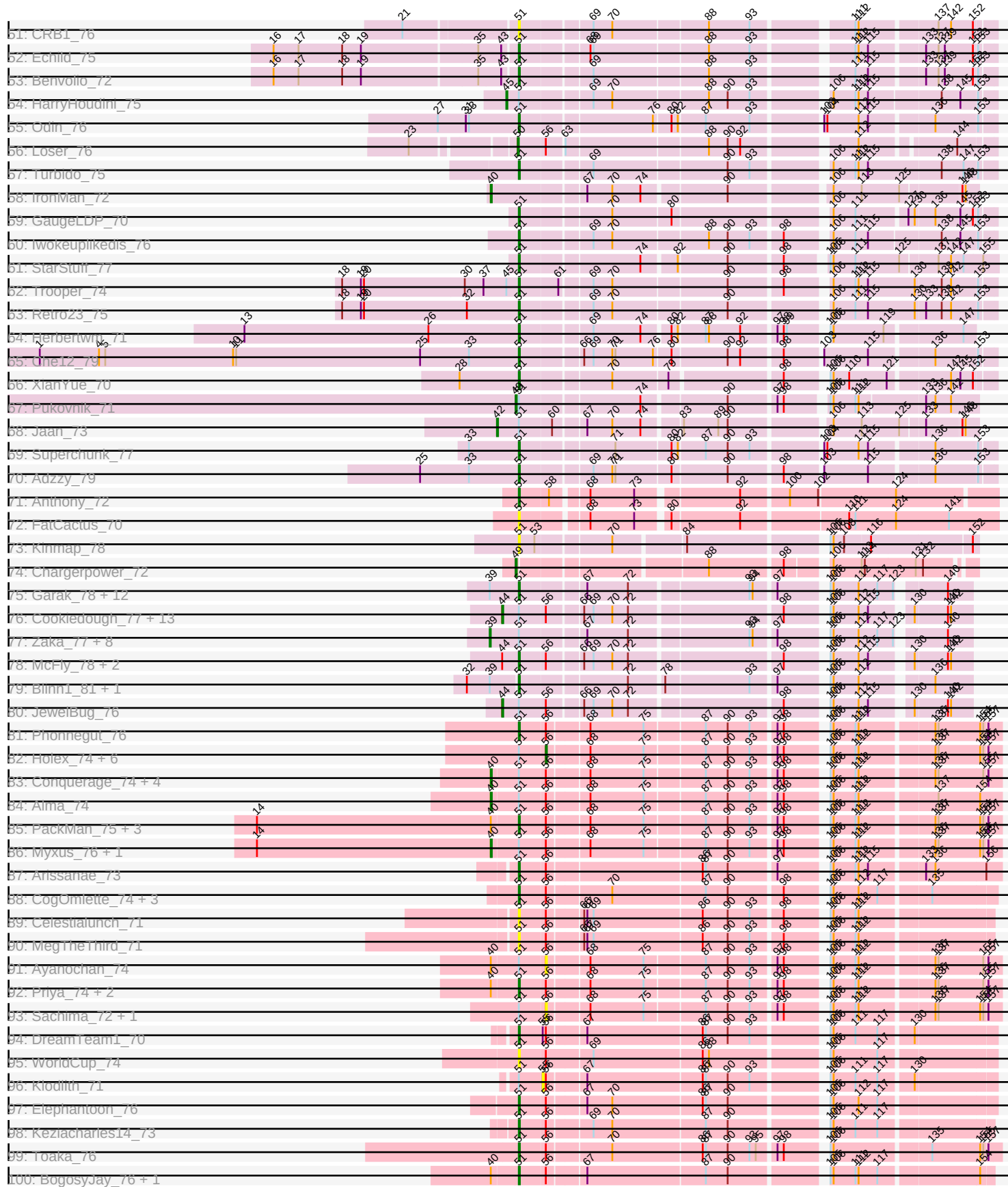


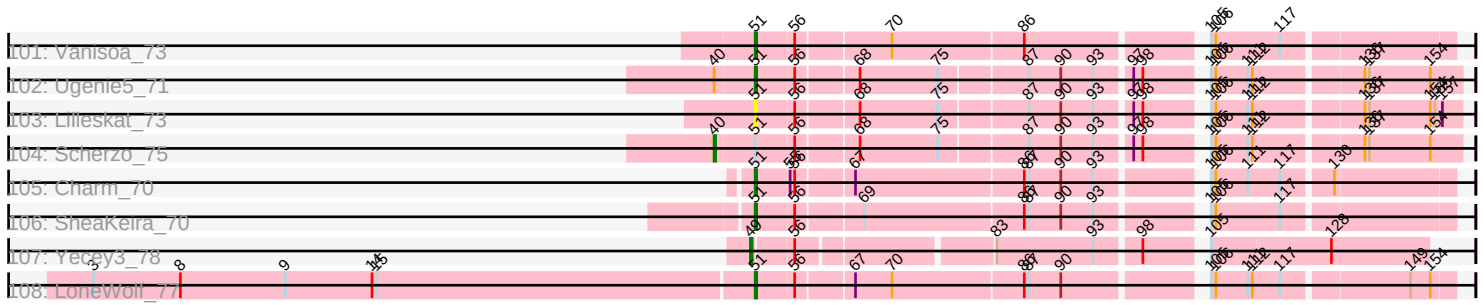
Pham 280080



Pham 280080



Pham 280080



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 280080 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280080 has 230 members, 32 are drafts.

Phages represented in each track:

- Track 1 : Hutc2_72, Wolpertinger_76, Sham4_73, Salz_72, Saskia_74, Fibonacci_76, Insomnia_76, Ebony_77, Jabith_76, Petersenfast_71
- Track 2 : Aneem_78, Mabel_77, Et2Brutus_76, Bud_72, Flaverint_78, Mulciber_75, Timothy_77, TinyTimmy_75, Snape_77, Joselito_76, Lucivia_78, Kimba_75, Bachome_75, Orange_76, Munch_77
- Track 3 : Bowtie_78
- Track 4 : Gilberta_74, MaCh_77
- Track 5 : Zimmer_73
- Track 6 : Pharaoh_70
- Track 7 : Steamy_69
- Track 8 : Jeeves_78
- Track 9 : Luchador_77
- Track 10 : SororFago_76
- Track 11 : Sunhee_76
- Track 12 : Gail_76
- Track 13 : KatherineG_83, Looper_82
- Track 14 : Nedarya_78
- Track 15 : Elle_77
- Track 16 : Anon_79
- Track 17 : Lucyedi_79, PainterBoy_78, EagleEye_80
- Track 18 : ForesterFrank_70
- Track 19 : Larenn_71, Malec_72
- Track 20 : BengiVuitton_74, Deloris_74
- Track 21 : Travvers_76, D29_70, D32_76, Naji_77
- Track 22 : Duplo_77, DBQu4n_77, Pomar16_77, Tomathan_77
- Track 23 : Journey13_64
- Track 24 : TarsusIV_72
- Track 25 : Acolyte_65
- Track 26 : FiringLine_75, Crucio_75, SemperFi_75, SweetiePie_74, QueenBeesly_75
- Track 27 : Dignity_76, Leviathan_76, Smeagan_77, LilTurb_75, Buggy_76, Whabigail7_75
- Track 28 : Flare16_75, Centaur_75, Terrific_75, Sknot_75, NaSiaTalie_75
- Track 29 : BabyBack_71
- Track 30 : Fameo_73, Heffalump_72, QueenB2_72
- Track 31 : Leogania_73
- Track 32 : AN9_77, C3_70, VC3_76, ANI8_77

- Track 33 : Landor_73, Phaded_70, Bactobuster_67
- Track 34 : MissWhite_73
- Track 35 : Jerm_76
- Track 36 : Power_74, Georgie2_76, SnapTap_74
- Track 37 : 20ES_76, First_0075
- Track 38 : RedRock_73
- Track 39 : Ph8s_79
- Track 40 : Tristan_71
- Track 41 : Piro94_74
- Track 42 : Kerberos_77
- Track 43 : ChipMunk_75, EvilGenius_74, KingCyrus_74
- Track 44 : MiculUcigas_75
- Track 45 : Drake55_76
- Track 46 : Baehexic_73
- Track 47 : Dalmatian_75, DudeLittle_73, Anselm_76
- Track 48 : NothingSpecial_70
- Track 49 : Equemioh13_74, Gratitude_72, Updawg_75, WideWale_75
- Track 50 : AnnaL29_74
- Track 51 : CRB1_76
- Track 52 : Echild_75
- Track 53 : Benvolio_72
- Track 54 : HarryHoudini_75
- Track 55 : Odin_76
- Track 56 : Loser_76
- Track 57 : Turbido_75
- Track 58 : IronMan_72
- Track 59 : GaugeLDP_70
- Track 60 : Iwokeuplikedis_76
- Track 61 : StarStuff_77
- Track 62 : Trooper_74
- Track 63 : Retro23_75
- Track 64 : Herbertwm_71
- Track 65 : Che12_79
- Track 66 : XianYue_70
- Track 67 : Pukovnik_71
- Track 68 : Jaan_73
- Track 69 : Superchunk_77
- Track 70 : Adzzy_79
- Track 71 : Anthony_72
- Track 72 : FatCactus_70
- Track 73 : Kinmap_78
- Track 74 : Chargerpower_72
- Track 75 : Garak_78, Gruunaga_76, Rifter_77, Tucker_77, Hexamo_76, Hammer_77, ToneTone_74, Yokurt_76, Zulu_78, Koko_78, Temprado_78, Roksolana_77, Wiks_76
- Track 76 : Cookiedough_77, DaVinci_75, Kazan_78, Neeharika16_76, Jordennis_75, VohminGhazi_77, GreedyLawyer_72, EricB_76, Newrala_76, Kipper29_77, Dorothea_77, Chartreuse_76, Pmask_76, SuperAwesome_77
- Track 77 : Zaka_77, Artemis2UCLA_76, WunderPhul_77, Helmet_79, BlessJoy_77, Lilbunny_76, CloudWang3_77, Blue7_78, Gladiator_74
- Track 78 : McFly_78, Hoot_72, BABullseye_70
- Track 79 : Blinn1_81, Priamo_78
- Track 80 : JewelBug_76

- Track 81 : Phonnegut_76
- Track 82 : Halex_74, Beemo_76, Jiawan_73, Pioneer_76, Hanray_74, RyeScarlet_77, Onglai_74
- Track 83 : Conquerage_74, Fayely_74, Spouty_74, Qobbit_74, EmyBug_73
- Track 84 : Alma_74
- Track 85 : PackMan_75, Tubs_76, Catalina_78, Phaeder_76
- Track 86 : Myxus_76, HortumSL17_77
- Track 87 : Arissanae_73
- Track 88 : CogOmlette_74, Bellris_74, Rahalelujah_76, Minispark_74
- Track 89 : Celestialunch_71
- Track 90 : MegTheThird_71
- Track 91 : Ayanochan_74
- Track 92 : Priya_74, ExplosioNervosa_74, Eidsmoe_74
- Track 93 : Sachima_72, EdogawaKiddo_74
- Track 94 : DreamTeam1_70
- Track 95 : WorldCup_74
- Track 96 : Klodlith_71
- Track 97 : Elephantoon_76
- Track 98 : Keziacharles14_73
- Track 99 : Toaka_76
- Track 100 : BogosyJay_76, Maminiaina_76
- Track 101 : Vanisoa_73
- Track 102 : Ugenie5_71
- Track 103 : Lilleskat_73
- Track 104 : Scherzo_75
- Track 105 : Charm_70
- Track 106 : SheaKeira_70
- Track 107 : Yecey3_78
- Track 108 : LoneWolf_77

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

The start number called the most often in the published annotations is 51, it was called in 119 of the 198 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• 20ES_76, AN9_77, ANI8_77, Acolyte_65, Adzzy_79, AnnaL29_74, Anon_79, Anselm_76, Anthony_72, Arissanae_73, BABullseye_70, BabyBack_71, Bellris_74, BengiVuitton_74, Benvolio_72, Blinn1_81, BogosyJay_76, Buggy_76, C3_70, CRB1_76, Catalina_78, Celestialunch_71, Centaur_75, Charm_70, Che12_79, ChipMunk_75, CogOmlette_74, Crucio_75, D29_70, D32_76, DBQu4n_77, Dalmatian_75, Deloris_74, Dignity_76, DreamTeam1_70, DudeLittle_73, Duplo_77, EagleEye_80, Echid_75, Eidsmoe_74, Elephantoon_76, Equemioh13_74, EvilGenius_74, ExplosioNervosa_74, Fameo_73, FatCactus_70, FiringLine_75, First_0075, Flare16_75, ForesterFrank_70, Garak_78, GaugeLDP_70, Georgie2_76, Gratitude_72, Gruunaga_76, Hammer_77, Heffalump_72, Herbertwm_71, Hexamo_76, Hoot_72, Iwokeuplikedis_76, Jerm_76, Journey13_64, KatherineG_83, Kerberos_77, Keziacharles14_73, KingCyrus_74, Kinmap_78, Koko_78, Larenn_71, Leogania_73, Leviathan_76, LilTurb_75, Lilleskat_73, LoneWolf_77, Looper_82, Lucyedi_79, Malec_72, Maminiaina_76, McFly_78, MegTheThird_71,

MiculUcigas_75, Minispark_74, NaSiaTalie_75, Naji_77, Nedarya_78, Odin_76, PackMan_75, PainterBoy_78, Ph8s_79, Phaeder_76, Pharaoh_70, Phonnegut_76, Piro94_74, Pomar16_77, Power_74, Priamo_78, Priya_74, QueenB2_72, QueenBeesly_75, Rahalelujah_76, Retro23_75, Rifter_77, Roksolana_77, SemperFi_75, SheaKeira_70, Sknot_75, Smeagan_77, SnapTap_74, StarStuff_77, Steamy_69, Superchunk_77, SweetiePie_74, TarsusIV_72, Temprado_78, Terrific_75, Toaka_76, Tomathan_77, ToneTone_74, Travvers_76, Tristan_71, Trooper_74, Tubs_76, Tucker_77, Turbido_75, Ugenie5_71, Updawg_75, VC3_76, Vanisoa_73, Whabigail7_75, WideWale_75, Wiks_76, WorldCup_74, XianYue_70, Yokurt_76, Zulu_78,

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

- Alma_74, Artemis2UCLA_76, Ayanochan_74, Bactobuster_67, Baehexic_73, Beemo_76, BlessJoy_77, Blue7_78, Chartreuse_76, CloudWang3_77, Conquerage_74, Cookiedough_77, DaVinci_75, Dorothea_77, Drake55_76, EdogawaKiddo_74, Elle_77, EmyBug_73, EricB_76, Fayely_74, Gladiator_74, GreedyLawyer_72, Hanray_74, HarryHoudini_75, Helmet_79, Horex_74, HortumSL17_77, Jaan_73, JewelBug_76, Jiawan_73, Jordennis_75, Kazan_78, Kipper29_77, Klodlith_71, Landor_73, Lilbunny_76, MissWhite_73, Myxus_76, Neeharika16_76, Newrala_76, NothingSpecial_70, Onglai_74, Phaded_70, Pioneer_76, Pmask_76, Pukovnik_71, Qobbit_74, RyeScarlet_77, Sachima_72, Scherzo_75, Spouty_74, SuperAwesome_77, VohminGhazi_77, WunderPhul_77, Zaka_77,

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

- Aneem_78, Bachome_75, Bowtie_78, Bud_72, Chargerpower_72, Ebony_77, Et2Brutus_76, Fibonacci_76, Flaverint_78, Gail_76, Gilberta_74, Hutc2_72, Insomnia_76, IronMan_72, Jabith_76, Jeeves_78, Joselito_76, Kimba_75, Loser_76, Luchador_77, Lucivia_78, MaCh_77, Mabel_77, Mulciber_75, Munch_77, Orange_76, Petersenfast_71, RedRock_73, Salz_72, Saskia_74, Sham4_73, Snape_77, SororFago_76, Sunhee_76, Timothy_77, TinyTimmy_75, Wolpertinger_76, Yecey3_78, Zimmer_73,

Summary by start number:

Start 37:

- Found in 9 of 230 (3.9%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Bowtie_78 (A11),

Start 39:

- Found in 24 of 230 (10.4%) of genes in pham
- Manual Annotations of this start: 9 of 198
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_76 (A6), BlessJoy_77 (A6), Blue7_78 (A6), CloudWang3_77 (A6), Gladiator_74 (A6), Helmet_79 (A6), Lilbunny_76 (A6), WunderPhul_77 (A6), Zaka_77 (A6),

Start 40:

- Found in 21 of 230 (9.1%) of genes in pham
- Manual Annotations of this start: 10 of 198
- Called 47.6% of time when present

- Phage (with cluster) where this start called: Alma_74 (A9), Conquerage_74 (A9), EmyBug_73 (A9), Fayely_74 (A9), HortumSL17_77 (A9), IronMan_72 (A2), Myxus_76 (A9), Qobbit_74 (A9), Scherzo_75 (A9), Spouty_74 (A9),

Start 42:

- Found in 4 of 230 (1.7%) of genes in pham
- Manual Annotations of this start: 4 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bactobuster_67 (A2), Jaan_73 (A2), Landor_73 (A2), Phaded_70 (A2),

Start 44:

- Found in 18 of 230 (7.8%) of genes in pham
- Manual Annotations of this start: 15 of 198
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Chartreuse_76 (A6), Cookiedough_77 (A6), DaVinci_75 (A6), Dorothea_77 (A6), EricB_76 (A6), GreedyLawyer_72 (A6), JewelBug_76 (A6), Jordennis_75 (A6), Kazan_78 (A6), Kipper29_77 (A6), Neeharika16_76 (A6), Newrala_76 (A6), Pmask_76 (A6), SuperAwesome_77 (A6), VohminGhazi_77 (A6),

Start 45:

- Found in 13 of 230 (5.7%) of genes in pham
- Manual Annotations of this start: 3 of 198
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Baehexic_73 (A2), Drake55_76 (A2), HarryHoudini_75 (A2),

Start 46:

- Found in 1 of 230 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zimmer_73 (A12),

Start 48:

- Found in 5 of 230 (2.2%) of genes in pham
- Manual Annotations of this start: 4 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gail_76 (A14), Jeeves_78 (A14), Luchador_77 (A14), SororFago_76 (A14), Sunhee_76 (A14),

Start 49:

- Found in 31 of 230 (13.5%) of genes in pham
- Manual Annotations of this start: 27 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aneem_78 (A11), Bachome_75 (A11), Bud_72 (A11), Chargerpower_72 (A22), Ebony_77 (A11), Et2Brutus_76 (A11), Fibonacci_76 (A11), Flaverint_78 (A11), Gilberta_74 (A11), Hutc2_72 (A11), Insomnia_76 (A11), Jabith_76 (A11), Joselito_76 (A11), Kimba_75 (A11), Lucivia_78 (A11), MaCh_77 (A11), Mabel_77 (A11), Mulciber_75 (A11), Munch_77 (A11), NothingSpecial_70 (A2), Orange_76 (A11), Petersenfast_71 (A11), Pukovnik_71 (A2), Salz_72 (A11), Saskia_74 (A11), Sham4_73 (A11), Snape_77 (A11), Timothy_77 (A11), TinyTimmy_75 (A11), Wolpertinger_76 (A11), Yecey3_78 (A9),

Start 50:

- Found in 2 of 230 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Loser_76 (A2), RedRock_73 (A2),

Start 51:

- Found in 191 of 230 (83.0%) of genes in pham
- Manual Annotations of this start: 119 of 198
- Called 71.2% of time when present
- Phage (with cluster) where this start called: 20ES_76 (A2), AN9_77 (A2), ANI8_77 (A2), Acolyte_65 (A2), Adzzy_79 (A2), AnnaL29_74 (A2), Anon_79 (A15), Anselm_76 (A2), Anthony_72 (A20), Arissanae_73 (A9), BABullseye_70 (A6), BabyBack_71 (A2), Bellris_74 (A9), BengiVuitton_74 (A2), Benvolio_72 (A2), Blinn1_81 (A6), BogosyJay_76 (A9), Buggy_76 (A2), C3_70 (A2), CRB1_76 (A2), Catalina_78 (A9), Celestiallunch_71 (A9), Centaur_75 (A2), Charm_70 (A9), Che12_79 (A2), ChipMunk_75 (A2), CogOmlette_74 (A9), Crucio_75 (A2), D29_70 (A2), D32_76 (A2), DBQu4n_77 (A2), Dalmatian_75 (A2), Deloris_74 (A2), Dignity_76 (A2), DreamTeam1_70 (A9), DudeLittle_73 (A2), Duplo_77 (A2), EagleEye_80 (A16), Echid_75 (A2), Eidsmoe_74 (A9), Elephantoon_76 (A9), Equemioh13_74 (A2), EvilGenius_74 (A2), ExplosioNervosa_74 (A9), Fameo_73 (A2), FatCactus_70 (A20), FiringLine_75 (A2), First_0075 (A2), Flare16_75 (A2), ForesterFrank_70 (A2), Garak_78 (A6), GaugeLDP_70 (A2), Georgie2_76 (A2), Gratitude_72 (A2), Gruunaga_76 (A6), Hammer_77 (A6), Heffalump_72 (A2), Herbertwm_71 (A2), Hexamo_76 (A6), Hoot_72 (A6), Iwokeuplikedis_76 (A2), Jerm_76 (A2), Journey13_64 (A2), KatherineG_83 (A15), Kerberos_77 (A2), Keziacharles14_73 (A9), KingCyrus_74 (A2), Kinmap_78 (A21), Koko_78 (A6), Larenn_71 (A2), Leogania_73 (A2), Leviathan_76 (A2), LilTurb_75 (A2), Lilleskat_73 (A9), LoneWolf_77 (A9), Looper_82 (A15), Lucyedi_79 (A16), Malec_72 (A2), Maminiaina_76 (A9), McFly_78 (A6), MegTheThird_71 (A9), MiculUcigas_75 (A2), Minispark_74 (A9), NaSiaTalie_75 (A2), Naji_77 (A2), Nedarya_78 (A15), Odin_76 (A2), PackMan_75 (A9), PainterBoy_78 (A16), Ph8s_79 (A2), Phaeder_76 (A9), Pharaoh_70 (A12), Phonnegut_76 (A9), Piro94_74 (A2), Pomar16_77 (A2), Power_74 (A2), Priamo_78 (A6), Priya_74 (A9), QueenB2_72 (A2), QueenBeesly_75 (A2), Rahalelujah_76 (A9), Retro23_75 (A2), Rifter_77 (A6), Roksolana_77 (A6), SemperFi_75 (A2), SheaKeira_70 (A9), Sknot_75 (A2), Smeagan_77 (A2), SnapTap_74 (A2), StarStuff_77 (A2), Steamy_69 (A12), Superchunk_77 (A2), SweetiePie_74 (A2), TarsusIV_72 (A2), Temprado_78 (A6), Terrific_75 (A2), Toaka_76 (A9), Tomathan_77 (A2), ToneTone_74 (A6), Travvers_76 (A2), Tristan_71 (A2), Trooper_74 (A2), Tubs_76 (A9), Tucker_77 (A6), Turbido_75 (A2), Ugenie5_71 (A9), Updawg_75 (A2), VC3_76 (A2), Vanisoa_73 (A9), Whabigail7_75 (A2), WideWale_75 (A2), Wiks_76 (A6), WorldCup_74 (A9), XianYue_70 (A2), Yokurt_76 (A6), Zulu_78 (A6),

Start 55:

- Found in 3 of 230 (1.3%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Klodlith_71 (A9),

Start 56:

- Found in 104 of 230 (45.2%) of genes in pham

- Manual Annotations of this start: 2 of 198
- Called 9.6% of time when present
- Phage (with cluster) where this start called: Ayanochan_74 (A9), Beemo_76 (A9), EdogawaKiddo_74 (A9), Hanray_74 (A9), Halex_74 (A9), Jiawan_73 (A9), Onglai_74 (A9), Pioneer_76 (A9), RyeScarlet_77 (A9), Sachima_72 (A9),

Start 57:

- Found in 1 of 230 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 198
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MissWhite_73 (A2),

Start 69:

- Found in 107 of 230 (46.5%) of genes in pham
- No Manual Annotations of this start.
- Called 0.9% of time when present
- Phage (with cluster) where this start called: Elle_77 (A15),

Summary by clusters:

There are 11 clusters represented in this pham: A15, A14, A22, A16, A11, A12, A21, A20, A2, A6, A9,

Info for manual annotations of cluster A11:

- Start number 37 was manually annotated 1 time for cluster A11.
- Start number 49 was manually annotated 23 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 46 was manually annotated 1 time for cluster A12.
- Start number 51 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 48 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 51 was manually annotated 4 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 51 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 40 was manually annotated 1 time for cluster A2.
- Start number 42 was manually annotated 4 times for cluster A2.
- Start number 45 was manually annotated 3 times for cluster A2.
- Start number 49 was manually annotated 2 times for cluster A2.
- Start number 50 was manually annotated 2 times for cluster A2.
- Start number 51 was manually annotated 71 times for cluster A2.
- Start number 57 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 51 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:

- Start number 49 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A6:

- Start number 39 was manually annotated 9 times for cluster A6.
- Start number 44 was manually annotated 15 times for cluster A6.
- Start number 51 was manually annotated 17 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 40 was manually annotated 9 times for cluster A9.
- Start number 49 was manually annotated 1 time for cluster A9.
- Start number 51 was manually annotated 21 times for cluster A9.
- Start number 56 was manually annotated 2 times for cluster A9.

Gene Information:

Gene: 20ES_76 Start: 44872, Stop: 44459, Start Num: 51

Candidate Starts for 20ES_76:

(Start: 51 @44872 has 119 MA's), (65, 44821), (68, 44812), (69, 44809), (70, 44791), (88, 44704), (93, 44665), (98, 44638), (111, 44581), (137, 44509), (152, 44476),

Gene: AN9_77 Start: 44797, Stop: 44378, Start Num: 51

Candidate Starts for AN9_77:

(Start: 51 @44797 has 119 MA's), (66, 44743), (74, 44689), (90, 44614), (98, 44566), (105, 44533), (106, 44530), (111, 44509), (125, 44467), (137, 44434), (147, 44410), (155, 44392),

Gene: ANI8_77 Start: 44797, Stop: 44378, Start Num: 51

Candidate Starts for ANI8_77:

(Start: 51 @44797 has 119 MA's), (66, 44743), (74, 44689), (90, 44614), (98, 44566), (105, 44533), (106, 44530), (111, 44509), (125, 44467), (137, 44434), (147, 44410), (155, 44392),

Gene: Acolyte_65 Start: 42788, Stop: 42381, Start Num: 51

Candidate Starts for Acolyte_65:

(Start: 51 @42788 has 119 MA's), (64, 42746), (70, 42707), (90, 42599), (106, 42515), (111, 42494), (112, 42491), (134, 42428), (151, 42392),

Gene: Adzzy_79 Start: 44582, Stop: 44163, Start Num: 51

Candidate Starts for Adzzy_79:

(25, 44675), (33, 44630), (Start: 51 @44582 has 119 MA's), (69, 44519), (70, 44501), (71, 44498), (80, 44447), (90, 44396), (98, 44348), (103, 44315), (115, 44273), (136, 44216), (153, 44177),

Gene: Alma_74 Start: 44144, Stop: 43698, Start Num: 40

Candidate Starts for Alma_74:

(Start: 40 @44144 has 10 MA's), (Start: 51 @44120 has 119 MA's), (Start: 56 @44096 has 2 MA's), (68, 44060), (75, 44009), (87, 43955), (90, 43934), (93, 43913), (97, 43892), (98, 43886), (105, 43853), (106, 43850), (111, 43829), (112, 43826), (137, 43757), (154, 43718),

Gene: Aneem_78 Start: 44778, Stop: 44341, Start Num: 49

Candidate Starts for Aneem_78:

(43, 44790), (Start: 49 @44778 has 27 MA's), (Start: 56 @44754 has 2 MA's), (69, 44715), (70, 44697), (84, 44628), (90, 44589), (95, 44562), (97, 44547), (99, 44538), (105, 44508), (106, 44505), (111,

44484), (143, 44391), (150, 44382),

Gene: AnnaL29_74 Start: 45079, Stop: 44672, Start Num: 51

Candidate Starts for AnnaL29_74:

(Start: 51 @45079 has 119 MA's), (Start: 56 @45055 has 2 MA's), (73, 44977), (88, 44911), (90, 44893), (92, 44881), (111, 44788), (112, 44785), (144, 44704),

Gene: Anon_79 Start: 44695, Stop: 44303, Start Num: 51

Candidate Starts for Anon_79:

(2, 45103), (6, 45046), (7, 45040), (12, 44920), (13, 44917), (Start: 51 @44695 has 119 MA's), (54, 44677), (70, 44614), (73, 44593), (84, 44551), (85, 44548), (86, 44536), (90, 44512), (92, 44500), (106, 44428), (115, 44395), (120, 44380), (123, 44374), (149, 44311), (151, 44308),

Gene: Anselm_76 Start: 45193, Stop: 44774, Start Num: 51

Candidate Starts for Anselm_76:

(18, 45361), (19, 45343), (20, 45340), (32, 45241), (Start: 51 @45193 has 119 MA's), (69, 45130), (70, 45112), (90, 45007), (106, 44923), (111, 44902), (115, 44890), (130, 44845), (138, 44821), (142, 44812), (153, 44788),

Gene: Anthony_72 Start: 44226, Stop: 43804, Start Num: 51

Candidate Starts for Anthony_72:

(Start: 51 @44226 has 119 MA's), (58, 44199), (68, 44169), (73, 44127), (92, 44037), (100, 43995), (102, 43968), (124, 43896),

Gene: Arissanae_73 Start: 44444, Stop: 44019, Start Num: 51

Candidate Starts for Arissanae_73:

(Start: 51 @44444 has 119 MA's), (Start: 56 @44420 has 2 MA's), (86, 44279), (87, 44276), (90, 44255), (97, 44213), (105, 44174), (106, 44171), (111, 44150), (112, 44147), (115, 44138), (133, 44090), (136, 44081), (156, 44033),

Gene: Artemis2UCLA_76 Start: 43341, Stop: 42928, Start Num: 39

Candidate Starts for Artemis2UCLA_76:

(Start: 39 @43341 has 9 MA's), (Start: 51 @43314 has 119 MA's), (67, 43257), (72, 43218), (93, 43110), (94, 43107), (97, 43089), (105, 43050), (106, 43047), (112, 43023), (117, 43005), (123, 42990), (140, 42951),

Gene: Ayanochan_74 Start: 43879, Stop: 43484, Start Num: 56

Candidate Starts for Ayanochan_74:

(Start: 40 @43927 has 10 MA's), (Start: 51 @43903 has 119 MA's), (Start: 56 @43879 has 2 MA's), (68, 43843), (75, 43792), (87, 43738), (90, 43717), (93, 43696), (97, 43675), (98, 43669), (105, 43636), (106, 43633), (111, 43612), (112, 43609), (136, 43543), (137, 43540), (155, 43498), (157, 43495),

Gene: BABullseye_70 Start: 41954, Stop: 41568, Start Num: 51

Candidate Starts for BABullseye_70:

(Start: 44 @41969 has 15 MA's), (Start: 51 @41954 has 119 MA's), (Start: 56 @41930 has 2 MA's), (66, 41900), (69, 41891), (70, 41873), (72, 41858), (98, 41723), (105, 41690), (106, 41687), (112, 41663), (115, 41654), (130, 41621), (140, 41591), (142, 41588),

Gene: BabyBack_71 Start: 44781, Stop: 44368, Start Num: 51

Candidate Starts for BabyBack_71:

(Start: 51 @44781 has 119 MA's), (70, 44700), (93, 44574), (105, 44514), (106, 44511), (111, 44490), (115, 44478), (130, 44439), (145, 44397), (152, 44385), (153, 44382),

Gene: Bachome_75 Start: 43657, Stop: 43220, Start Num: 49

Candidate Starts for Bachome_75:

(43, 43669), (Start: 49 @43657 has 27 MA's), (Start: 56 @43633 has 2 MA's), (69, 43594), (70, 43576), (84, 43507), (90, 43468), (95, 43441), (97, 43426), (99, 43417), (105, 43387), (106, 43384), (111, 43363), (143, 43270), (150, 43261),

Gene: Bactobuster_67 Start: 44476, Stop: 44054, Start Num: 42

Candidate Starts for Bactobuster_67:

(Start: 42 @44476 has 4 MA's), (Start: 51 @44455 has 119 MA's), (60, 44425), (67, 44398), (70, 44374), (74, 44347), (83, 44314), (90, 44272), (106, 44185), (113, 44158), (125, 44122), (133, 44101), (146, 44068), (148, 44065),

Gene: Baehexic_73 Start: 44533, Stop: 44102, Start Num: 45

Candidate Starts for Baehexic_73:

(21, 44629), (23, 44623), (Start: 45 @44533 has 3 MA's), (Start: 51 @44521 has 119 MA's), (69, 44458), (70, 44440), (90, 44335), (93, 44314), (106, 44251), (111, 44230), (112, 44227), (115, 44218), (138, 44152), (145, 44134), (153, 44119),

Gene: Beemo_76 Start: 44134, Stop: 43739, Start Num: 56

Candidate Starts for Beemo_76:

(Start: 51 @44158 has 119 MA's), (Start: 56 @44134 has 2 MA's), (68, 44098), (75, 44047), (87, 43993), (90, 43972), (93, 43951), (97, 43930), (98, 43924), (105, 43891), (106, 43888), (111, 43867), (112, 43864), (136, 43798), (137, 43795), (154, 43756), (155, 43753), (157, 43750),

Gene: Bellris_74 Start: 44011, Stop: 43592, Start Num: 51

Candidate Starts for Bellris_74:

(Start: 51 @44011 has 119 MA's), (Start: 56 @43987 has 2 MA's), (70, 43930), (87, 43843), (90, 43822), (98, 43774), (105, 43741), (106, 43738), (112, 43714), (117, 43696), (135, 43651),

Gene: BengiVuitton_74 Start: 44822, Stop: 44409, Start Num: 51

Candidate Starts for BengiVuitton_74:

(32, 44867), (41, 44846), (Start: 51 @44822 has 119 MA's), (69, 44759), (70, 44741), (88, 44654), (93, 44615), (98, 44588), (111, 44531), (112, 44528), (137, 44459), (152, 44426),

Gene: Benvolio_72 Start: 44419, Stop: 44006, Start Num: 51

Candidate Starts for Benvolio_72:

(16, 44644), (17, 44620), (18, 44578), (19, 44560), (35, 44452), (43, 44431), (Start: 51 @44419 has 119 MA's), (69, 44356), (88, 44251), (93, 44212), (111, 44128), (115, 44116), (133, 44068), (137, 44056), (139, 44050), (152, 44023), (153, 44020),

Gene: BlessJoy_77 Start: 43863, Stop: 43450, Start Num: 39

Candidate Starts for BlessJoy_77:

(Start: 39 @43863 has 9 MA's), (Start: 51 @43836 has 119 MA's), (67, 43779), (72, 43740), (93, 43632), (94, 43629), (97, 43611), (105, 43572), (106, 43569), (112, 43545), (117, 43527), (123, 43512), (140, 43473),

Gene: Blinn1_81 Start: 44565, Stop: 44179, Start Num: 51

Candidate Starts for Blinn1_81:

(32, 44610), (Start: 39 @44589 has 9 MA's), (Start: 51 @44565 has 119 MA's), (72, 44469), (78, 44439), (93, 44361), (97, 44340), (105, 44301), (106, 44298), (112, 44274), (136, 44214),

Gene: Blue7_78 Start: 43561, Stop: 43148, Start Num: 39

Candidate Starts for Blue7_78:

(Start: 39 @43561 has 9 MA's), (Start: 51 @43534 has 119 MA's), (67, 43477), (72, 43438), (93, 43330), (94, 43327), (97, 43309), (105, 43270), (106, 43267), (112, 43243), (117, 43225), (123, 43210), (140, 43171),

Gene: BogosyJay_76 Start: 44392, Stop: 43976, Start Num: 51

Candidate Starts for BogosyJay_76:

(Start: 40 @44416 has 10 MA's), (Start: 51 @44392 has 119 MA's), (Start: 56 @44368 has 2 MA's), (67, 44335), (87, 44224), (90, 44203), (105, 44122), (106, 44119), (111, 44098), (112, 44095), (117, 44077), (154, 43987),

Gene: Bowtie_78 Start: 44818, Stop: 44348, Start Num: 37

Candidate Starts for Bowtie_78:

(36, 44821), (Start: 37 @44818 has 1 MA's), (63, 44749), (70, 44704), (84, 44635), (90, 44596), (95, 44569), (97, 44554), (99, 44545), (105, 44515), (106, 44512), (111, 44491), (143, 44398), (150, 44389),

Gene: Bud_72 Start: 43215, Stop: 42778, Start Num: 49

Candidate Starts for Bud_72:

(43, 43227), (Start: 49 @43215 has 27 MA's), (Start: 56 @43191 has 2 MA's), (69, 43152), (70, 43134), (84, 43065), (90, 43026), (95, 42999), (97, 42984), (99, 42975), (105, 42945), (106, 42942), (111, 42921), (143, 42828), (150, 42819),

Gene: Buggy_76 Start: 45178, Stop: 44759, Start Num: 51

Candidate Starts for Buggy_76:

(30, 45226), (Start: 37 @45208 has 1 MA's), (43, 45193), (Start: 51 @45178 has 119 MA's), (69, 45115), (90, 44992), (93, 44971), (106, 44908), (115, 44875), (130, 44830), (133, 44821), (138, 44806), (145, 44788), (147, 44785), (153, 44773),

Gene: C3_70 Start: 44797, Stop: 44378, Start Num: 51

Candidate Starts for C3_70:

(Start: 51 @44797 has 119 MA's), (66, 44743), (74, 44689), (90, 44614), (98, 44566), (105, 44533), (106, 44530), (111, 44509), (125, 44467), (137, 44434), (147, 44410), (155, 44392),

Gene: CRB1_76 Start: 45367, Stop: 44954, Start Num: 51

Candidate Starts for CRB1_76:

(21, 45469), (Start: 51 @45367 has 119 MA's), (69, 45304), (70, 45286), (88, 45199), (93, 45160), (111, 45076), (112, 45073), (137, 45004), (142, 44992), (152, 44971),

Gene: Catalina_78 Start: 44214, Stop: 43795, Start Num: 51

Candidate Starts for Catalina_78:

(14, 44463), (Start: 40 @44238 has 10 MA's), (Start: 51 @44214 has 119 MA's), (Start: 56 @44190 has 2 MA's), (68, 44154), (75, 44103), (87, 44049), (90, 44028), (93, 44007), (97, 43986), (98, 43980), (105, 43947), (106, 43944), (111, 43923), (112, 43920), (136, 43854), (137, 43851), (154, 43812), (155, 43809), (157, 43806),

Gene: Celestiallunch_71 Start: 43395, Stop: 42979, Start Num: 51

Candidate Starts for Celestiallunch_71:

(Start: 51 @43395 has 119 MA's), (Start: 56 @43371 has 2 MA's), (66, 43341), (67, 43338), (69, 43332), (86, 43230), (90, 43206), (93, 43185), (98, 43158), (105, 43125), (106, 43122), (111, 43101), (112, 43098),

Gene: Centaur_75 Start: 44736, Stop: 44317, Start Num: 51

Candidate Starts for Centaur_75:

(21, 44835), (23, 44829), (30, 44778), (Start: 51 @44736 has 119 MA's), (69, 44673), (70, 44655), (88, 44568), (93, 44529), (98, 44502), (106, 44466), (111, 44445), (112, 44442), (115, 44433), (138, 44367), (145, 44349), (153, 44334),

Gene: Chargerpower_72 Start: 43217, Stop: 42828, Start Num: 49

Candidate Starts for Chargerpower_72:

(Start: 49 @43217 has 27 MA's), (88, 43052), (98, 42986), (106, 42953), (113, 42926), (114, 42923), (131, 42875), (132, 42869),

Gene: Charm_70 Start: 43332, Stop: 42913, Start Num: 51

Candidate Starts for Charm_70:

(Start: 51 @43332 has 119 MA's), (55, 43311), (Start: 56 @43308 has 2 MA's), (67, 43275), (86, 43167), (87, 43164), (90, 43143), (93, 43122), (105, 43062), (106, 43059), (111, 43038), (117, 43017), (130, 42987),

Gene: Chartreuse_76 Start: 42975, Stop: 42574, Start Num: 44

Candidate Starts for Chartreuse_76:

(Start: 44 @42975 has 15 MA's), (Start: 51 @42960 has 119 MA's), (Start: 56 @42936 has 2 MA's), (66, 42906), (69, 42897), (70, 42879), (72, 42864), (98, 42729), (105, 42696), (106, 42693), (112, 42669), (115, 42660), (130, 42627), (140, 42597), (142, 42594),

Gene: Che12_79 Start: 44481, Stop: 44062, Start Num: 51

Candidate Starts for Che12_79:

(1, 44940), (4, 44883), (5, 44877), (10, 44754), (11, 44751), (25, 44574), (33, 44529), (Start: 51 @44481 has 119 MA's), (66, 44427), (69, 44418), (70, 44400), (71, 44397), (76, 44361), (80, 44346), (90, 44295), (92, 44283), (98, 44247), (103, 44214), (115, 44172), (136, 44115), (153, 44076),

Gene: ChipMunk_75 Start: 46219, Stop: 45800, Start Num: 51

Candidate Starts for ChipMunk_75:

(30, 46267), (Start: 51 @46219 has 119 MA's), (61, 46183), (69, 46156), (70, 46138), (90, 46033), (106, 45949), (111, 45928), (112, 45925), (115, 45916), (127, 45877), (133, 45862), (138, 45847), (145, 45829), (147, 45826), (153, 45814),

Gene: CloudWang3_77 Start: 43853, Stop: 43440, Start Num: 39

Candidate Starts for CloudWang3_77:

(Start: 39 @43853 has 9 MA's), (Start: 51 @43826 has 119 MA's), (67, 43769), (72, 43730), (93, 43622), (94, 43619), (97, 43601), (105, 43562), (106, 43559), (112, 43535), (117, 43517), (123, 43502), (140, 43463),

Gene: CogOmlette_74 Start: 44008, Stop: 43589, Start Num: 51

Candidate Starts for CogOmlette_74:

(Start: 51 @44008 has 119 MA's), (Start: 56 @43984 has 2 MA's), (70, 43927), (87, 43840), (90, 43819), (98, 43771), (105, 43738), (106, 43735), (112, 43711), (117, 43693), (135, 43648),

Gene: Conquerage_74 Start: 43913, Stop: 43470, Start Num: 40

Candidate Starts for Conquerage_74:

(Start: 40 @43913 has 10 MA's), (Start: 51 @43889 has 119 MA's), (Start: 56 @43865 has 2 MA's), (68, 43829), (75, 43778), (87, 43724), (90, 43703), (93, 43682), (97, 43661), (98, 43655), (105, 43622), (106, 43619), (111, 43598), (112, 43595), (136, 43529), (137, 43526), (155, 43484), (157, 43481),

Gene: Cookiedough_77 Start: 44279, Stop: 43878, Start Num: 44

Candidate Starts for Cookiedough_77:

(Start: 44 @44279 has 15 MA's), (Start: 51 @44264 has 119 MA's), (Start: 56 @44240 has 2 MA's), (66, 44210), (69, 44201), (70, 44183), (72, 44168), (98, 44033), (105, 44000), (106, 43997), (112, 43973), (115, 43964), (130, 43931), (140, 43901), (142, 43898),

Gene: Crucio_75 Start: 45094, Stop: 44675, Start Num: 51

Candidate Starts for Crucio_75:

(35, 45133), (Start: 45 @45106 has 3 MA's), (Start: 51 @45094 has 119 MA's), (65, 45043), (69, 45031), (70, 45013), (90, 44908), (92, 44896), (93, 44887), (111, 44803), (115, 44791), (130, 44746), (138, 44722), (147, 44701), (153, 44689),

Gene: D29_70 Start: 45277, Stop: 44858, Start Num: 51

Candidate Starts for D29_70:

(Start: 51 @45277 has 119 MA's), (74, 45169), (90, 45094), (98, 45046), (105, 45013), (106, 45010), (111, 44989), (125, 44947), (137, 44914), (142, 44902), (147, 44890), (155, 44872),

Gene: D32_76 Start: 45277, Stop: 44858, Start Num: 51

Candidate Starts for D32_76:

(Start: 51 @45277 has 119 MA's), (74, 45169), (90, 45094), (98, 45046), (105, 45013), (106, 45010), (111, 44989), (125, 44947), (137, 44914), (142, 44902), (147, 44890), (155, 44872),

Gene: DBQu4n_77 Start: 45257, Stop: 44838, Start Num: 51

Candidate Starts for DBQu4n_77:

(Start: 51 @45257 has 119 MA's), (66, 45203), (74, 45149), (90, 45074), (98, 45026), (105, 44993), (106, 44990), (111, 44969), (125, 44927), (130, 44915), (137, 44894), (142, 44882), (147, 44870), (155, 44852),

Gene: DaVinci_75 Start: 43029, Stop: 42628, Start Num: 44

Candidate Starts for DaVinci_75:

(Start: 44 @43029 has 15 MA's), (Start: 51 @43014 has 119 MA's), (Start: 56 @42990 has 2 MA's), (66, 42960), (69, 42951), (70, 42933), (72, 42918), (98, 42783), (105, 42750), (106, 42747), (112, 42723), (115, 42714), (130, 42681), (140, 42651), (142, 42648),

Gene: Dalmatian_75 Start: 44912, Stop: 44493, Start Num: 51

Candidate Starts for Dalmatian_75:

(18, 45080), (19, 45062), (20, 45059), (32, 44960), (Start: 51 @44912 has 119 MA's), (69, 44849), (70, 44831), (90, 44726), (106, 44642), (111, 44621), (115, 44609), (130, 44564), (138, 44540), (142, 44531), (153, 44507),

Gene: Deloris_74 Start: 44518, Stop: 44105, Start Num: 51

Candidate Starts for Deloris_74:

(32, 44563), (41, 44542), (Start: 51 @44518 has 119 MA's), (69, 44455), (70, 44437), (88, 44350), (93, 44311), (98, 44284), (111, 44227), (112, 44224), (137, 44155), (152, 44122),

Gene: Dignity_76 Start: 45216, Stop: 44797, Start Num: 51

Candidate Starts for Dignity_76:

(30, 45264), (Start: 37 @45246 has 1 MA's), (43, 45231), (Start: 51 @45216 has 119 MA's), (69, 45153), (90, 45030), (93, 45009), (106, 44946), (115, 44913), (130, 44868), (133, 44859), (138, 44844), (145, 44826), (147, 44823), (153, 44811),

Gene: Dorothea_77 Start: 44275, Stop: 43874, Start Num: 44

Candidate Starts for Dorothea_77:

(Start: 44 @44275 has 15 MA's), (Start: 51 @44260 has 119 MA's), (Start: 56 @44236 has 2 MA's), (66, 44206), (69, 44197), (70, 44179), (72, 44164), (98, 44029), (105, 43996), (106, 43993), (112,

43969), (115, 43960), (130, 43927), (140, 43897), (142, 43894),

Gene: Drake55_76 Start: 44822, Stop: 44391, Start Num: 45

Candidate Starts for Drake55_76:

(30, 44861), (Start: 45 @44822 has 3 MA's), (Start: 51 @44810 has 119 MA's), (69, 44747), (70, 44729), (90, 44624), (93, 44603), (98, 44576), (106, 44540), (111, 44519), (112, 44516), (115, 44507), (138, 44441), (142, 44432), (145, 44423), (153, 44408),

Gene: DreamTeam1_70 Start: 43179, Stop: 42760, Start Num: 51

Candidate Starts for DreamTeam1_70:

(Start: 51 @43179 has 119 MA's), (55, 43158), (Start: 56 @43155 has 2 MA's), (67, 43122), (86, 43014), (87, 43011), (90, 42990), (93, 42969), (105, 42909), (106, 42906), (111, 42885), (117, 42864), (130, 42834),

Gene: DudeLittle_73 Start: 44678, Stop: 44259, Start Num: 51

Candidate Starts for DudeLittle_73:

(18, 44846), (19, 44828), (20, 44825), (32, 44726), (Start: 51 @44678 has 119 MA's), (69, 44615), (70, 44597), (90, 44492), (106, 44408), (111, 44387), (115, 44375), (130, 44330), (138, 44306), (142, 44297), (153, 44273),

Gene: Duplo_77 Start: 45314, Stop: 44895, Start Num: 51

Candidate Starts for Duplo_77:

(Start: 51 @45314 has 119 MA's), (66, 45260), (74, 45206), (90, 45131), (98, 45083), (105, 45050), (106, 45047), (111, 45026), (125, 44984), (130, 44972), (137, 44951), (142, 44939), (147, 44927), (155, 44909),

Gene: EagleEye_80 Start: 45356, Stop: 44949, Start Num: 51

Candidate Starts for EagleEye_80:

(Start: 51 @45356 has 119 MA's), (Start: 56 @45332 has 2 MA's), (62, 45320), (70, 45275), (85, 45206), (87, 45191), (90, 45170), (94, 45146), (105, 45089), (106, 45086), (115, 45053), (151, 44963), (152, 44960),

Gene: Ebony_77 Start: 44349, Stop: 43912, Start Num: 49

Candidate Starts for Ebony_77:

(43, 44361), (Start: 49 @44349 has 27 MA's), (Start: 56 @44325 has 2 MA's), (69, 44286), (84, 44199), (90, 44160), (95, 44133), (97, 44118), (99, 44109), (105, 44079), (106, 44076), (111, 44055), (143, 43962), (150, 43953),

Gene: Echild_75 Start: 44443, Stop: 44030, Start Num: 51

Candidate Starts for Echild_75:

(16, 44668), (17, 44644), (18, 44602), (19, 44584), (35, 44476), (43, 44455), (Start: 51 @44443 has 119 MA's), (68, 44383), (69, 44380), (88, 44275), (93, 44236), (111, 44152), (112, 44149), (115, 44140), (133, 44092), (137, 44080), (139, 44074), (152, 44047), (153, 44044),

Gene: EdogawaKiddo_74 Start: 44156, Stop: 43761, Start Num: 56

Candidate Starts for EdogawaKiddo_74:

(Start: 51 @44180 has 119 MA's), (Start: 56 @44156 has 2 MA's), (68, 44120), (75, 44069), (87, 44015), (90, 43994), (93, 43973), (97, 43952), (98, 43946), (105, 43913), (106, 43910), (111, 43889), (112, 43886), (136, 43820), (137, 43817), (154, 43778), (155, 43775), (157, 43772),

Gene: Eidsmoe_74 Start: 43881, Stop: 43462, Start Num: 51

Candidate Starts for Eidsmoe_74:

(Start: 40 @43905 has 10 MA's), (Start: 51 @43881 has 119 MA's), (Start: 56 @43857 has 2 MA's), (68, 43821), (75, 43770), (87, 43716), (90, 43695), (93, 43674), (97, 43653), (98, 43647), (105, 43614), (106, 43611), (111, 43590), (112, 43587), (136, 43521), (137, 43518), (155, 43476), (157, 43473),

Gene: Elephantoon_76 Start: 44034, Stop: 43615, Start Num: 51

Candidate Starts for Elephantoon_76:

(Start: 51 @44034 has 119 MA's), (Start: 56 @44010 has 2 MA's), (67, 43977), (70, 43953), (86, 43869), (87, 43866), (90, 43845), (105, 43764), (106, 43761), (112, 43737), (117, 43719),

Gene: Elle_77 Start: 43986, Stop: 43657, Start Num: 69

Candidate Starts for Elle_77:

(Start: 51 @44049 has 119 MA's), (54, 44031), (63, 44010), (69, 43986), (73, 43947), (83, 43908), (90, 43866), (105, 43785), (106, 43782), (112, 43758), (151, 43662),

Gene: EmyBug_73 Start: 43907, Stop: 43464, Start Num: 40

Candidate Starts for EmyBug_73:

(Start: 40 @43907 has 10 MA's), (Start: 51 @43883 has 119 MA's), (Start: 56 @43859 has 2 MA's), (68, 43823), (75, 43772), (87, 43718), (90, 43697), (93, 43676), (97, 43655), (98, 43649), (105, 43616), (106, 43613), (111, 43592), (112, 43589), (136, 43523), (137, 43520), (155, 43478), (157, 43475),

Gene: Equemioh13_74 Start: 44641, Stop: 44222, Start Num: 51

Candidate Starts for Equemioh13_74:

(30, 44683), (Start: 51 @44641 has 119 MA's), (69, 44578), (70, 44560), (88, 44473), (93, 44434), (98, 44407), (106, 44371), (111, 44350), (112, 44347), (115, 44338), (138, 44272), (145, 44254), (153, 44239),

Gene: EricB_76 Start: 43621, Stop: 43220, Start Num: 44

Candidate Starts for EricB_76:

(Start: 44 @43621 has 15 MA's), (Start: 51 @43606 has 119 MA's), (Start: 56 @43582 has 2 MA's), (66, 43552), (69, 43543), (70, 43525), (72, 43510), (98, 43375), (105, 43342), (106, 43339), (112, 43315), (115, 43306), (130, 43273), (140, 43243), (142, 43240),

Gene: Et2Brutus_76 Start: 44312, Stop: 43875, Start Num: 49

Candidate Starts for Et2Brutus_76:

(43, 44324), (Start: 49 @44312 has 27 MA's), (Start: 56 @44288 has 2 MA's), (69, 44249), (70, 44231), (84, 44162), (90, 44123), (95, 44096), (97, 44081), (99, 44072), (105, 44042), (106, 44039), (111, 44018), (143, 43925), (150, 43916),

Gene: EvilGenius_74 Start: 46220, Stop: 45801, Start Num: 51

Candidate Starts for EvilGenius_74:

(30, 46268), (Start: 51 @46220 has 119 MA's), (61, 46184), (69, 46157), (70, 46139), (90, 46034), (106, 45950), (111, 45929), (112, 45926), (115, 45917), (127, 45878), (133, 45863), (138, 45848), (145, 45830), (147, 45827), (153, 45815),

Gene: ExplosioNervosa_74 Start: 43949, Stop: 43530, Start Num: 51

Candidate Starts for ExplosioNervosa_74:

(Start: 40 @43973 has 10 MA's), (Start: 51 @43949 has 119 MA's), (Start: 56 @43925 has 2 MA's), (68, 43889), (75, 43838), (87, 43784), (90, 43763), (93, 43742), (97, 43721), (98, 43715), (105, 43682), (106, 43679), (111, 43658), (112, 43655), (136, 43589), (137, 43586), (155, 43544), (157, 43541),

Gene: Fameo_73 Start: 44721, Stop: 44302, Start Num: 51

Candidate Starts for Fameo_73:

(32, 44769), (Start: 51 @44721 has 119 MA's), (69, 44658), (70, 44640), (90, 44535), (106, 44451), (112, 44427), (115, 44418), (130, 44373), (138, 44349), (142, 44340), (153, 44316),

Gene: FatCactus_70 Start: 43678, Stop: 43250, Start Num: 51

Candidate Starts for FatCactus_70:

(Start: 51 @43678 has 119 MA's), (68, 43621), (73, 43579), (80, 43552), (92, 43489), (110, 43393), (111, 43387), (124, 43348), (141, 43297),

Gene: Fayely_74 Start: 43874, Stop: 43431, Start Num: 40

Candidate Starts for Fayely_74:

(Start: 40 @43874 has 10 MA's), (Start: 51 @43850 has 119 MA's), (Start: 56 @43826 has 2 MA's), (68, 43790), (75, 43739), (87, 43685), (90, 43664), (93, 43643), (97, 43622), (98, 43616), (105, 43583), (106, 43580), (111, 43559), (112, 43556), (136, 43490), (137, 43487), (155, 43445), (157, 43442),

Gene: Fibonacci_76 Start: 44318, Stop: 43881, Start Num: 49

Candidate Starts for Fibonacci_76:

(43, 44330), (Start: 49 @44318 has 27 MA's), (Start: 56 @44294 has 2 MA's), (69, 44255), (84, 44168), (90, 44129), (95, 44102), (97, 44087), (99, 44078), (105, 44048), (106, 44045), (111, 44024), (143, 43931), (150, 43922),

Gene: FiringLine_75 Start: 45076, Stop: 44657, Start Num: 51

Candidate Starts for FiringLine_75:

(35, 45115), (Start: 45 @45088 has 3 MA's), (Start: 51 @45076 has 119 MA's), (65, 45025), (69, 45013), (70, 44995), (90, 44890), (92, 44878), (93, 44869), (111, 44785), (115, 44773), (130, 44728), (138, 44704), (147, 44683), (153, 44671),

Gene: First_0075 Start: 44772, Stop: 44359, Start Num: 51

Candidate Starts for First_0075:

(Start: 51 @44772 has 119 MA's), (65, 44721), (68, 44712), (69, 44709), (70, 44691), (88, 44604), (93, 44565), (98, 44538), (111, 44481), (137, 44409), (152, 44376),

Gene: Flare16_75 Start: 44780, Stop: 44361, Start Num: 51

Candidate Starts for Flare16_75:

(21, 44879), (23, 44873), (30, 44822), (Start: 51 @44780 has 119 MA's), (69, 44717), (70, 44699), (88, 44612), (93, 44573), (98, 44546), (106, 44510), (111, 44489), (112, 44486), (115, 44477), (138, 44411), (145, 44393), (153, 44378),

Gene: Flaverint_78 Start: 44776, Stop: 44339, Start Num: 49

Candidate Starts for Flaverint_78:

(43, 44788), (Start: 49 @44776 has 27 MA's), (Start: 56 @44752 has 2 MA's), (69, 44713), (70, 44695), (84, 44626), (90, 44587), (95, 44560), (97, 44545), (99, 44536), (105, 44506), (106, 44503), (111, 44482), (143, 44389), (150, 44380),

Gene: ForesterFrank_70 Start: 44873, Stop: 44457, Start Num: 51

Candidate Starts for ForesterFrank_70:

(Start: 51 @44873 has 119 MA's), (88, 44702), (90, 44684), (111, 44579), (112, 44576), (115, 44567), (127, 44534), (130, 44528), (132, 44522), (137, 44507),

Gene: Gail_76 Start: 45154, Stop: 44759, Start Num: 48

Candidate Starts for Gail_76:

(Start: 48 @45154 has 4 MA's), (Start: 56 @45130 has 2 MA's), (85, 45007), (88, 44989), (90, 44971), (92, 44959), (98, 44923), (106, 44890), (111, 44869), (113, 44863),

Gene: Garak_78 Start: 43777, Stop: 43391, Start Num: 51

Candidate Starts for Garak_78:

(Start: 39 @43804 has 9 MA's), (Start: 51 @43777 has 119 MA's), (67, 43720), (72, 43681), (93, 43573), (94, 43570), (97, 43552), (105, 43513), (106, 43510), (112, 43486), (117, 43468), (123, 43453), (140, 43414),

Gene: GaugeLDP_70 Start: 44348, Stop: 43935, Start Num: 51

Candidate Starts for GaugeLDP_70:

(Start: 51 @44348 has 119 MA's), (70, 44267), (80, 44213), (106, 44078), (111, 44057), (127, 44012), (130, 44006), (136, 43988), (145, 43964), (152, 43952), (153, 43949),

Gene: Georgie2_76 Start: 45121, Stop: 44702, Start Num: 51

Candidate Starts for Georgie2_76:

(35, 45160), (Start: 45 @45133 has 3 MA's), (Start: 51 @45121 has 119 MA's), (61, 45085), (65, 45070), (69, 45058), (70, 45040), (90, 44935), (92, 44923), (93, 44914), (111, 44830), (115, 44818), (130, 44773), (138, 44749), (147, 44728), (153, 44716),

Gene: Gilberta_74 Start: 43652, Stop: 43215, Start Num: 49

Candidate Starts for Gilberta_74:

(43, 43664), (Start: 49 @43652 has 27 MA's), (Start: 56 @43628 has 2 MA's), (69, 43589), (70, 43571), (82, 43508), (84, 43502), (90, 43463), (95, 43436), (97, 43421), (99, 43412), (105, 43382), (106, 43379), (111, 43358), (143, 43265), (150, 43256),

Gene: Gladiator_74 Start: 43707, Stop: 43294, Start Num: 39

Candidate Starts for Gladiator_74:

(Start: 39 @43707 has 9 MA's), (Start: 51 @43680 has 119 MA's), (67, 43623), (72, 43584), (93, 43476), (94, 43473), (97, 43455), (105, 43416), (106, 43413), (112, 43389), (117, 43371), (123, 43356), (140, 43317),

Gene: Gratitude_72 Start: 44641, Stop: 44222, Start Num: 51

Candidate Starts for Gratitude_72:

(30, 44683), (Start: 51 @44641 has 119 MA's), (69, 44578), (70, 44560), (88, 44473), (93, 44434), (98, 44407), (106, 44371), (111, 44350), (112, 44347), (115, 44338), (138, 44272), (145, 44254), (153, 44239),

Gene: GreedyLawyer_72 Start: 43594, Stop: 43193, Start Num: 44

Candidate Starts for GreedyLawyer_72:

(Start: 44 @43594 has 15 MA's), (Start: 51 @43579 has 119 MA's), (Start: 56 @43555 has 2 MA's), (66, 43525), (69, 43516), (70, 43498), (72, 43483), (98, 43348), (105, 43315), (106, 43312), (112, 43288), (115, 43279), (130, 43246), (140, 43216), (142, 43213),

Gene: Gruunaga_76 Start: 43635, Stop: 43249, Start Num: 51

Candidate Starts for Gruunaga_76:

(Start: 39 @43662 has 9 MA's), (Start: 51 @43635 has 119 MA's), (67, 43578), (72, 43539), (93, 43431), (94, 43428), (97, 43410), (105, 43371), (106, 43368), (112, 43344), (117, 43326), (123, 43311), (140, 43272),

Gene: Hammer_77 Start: 43342, Stop: 42956, Start Num: 51

Candidate Starts for Hammer_77:

(Start: 39 @43369 has 9 MA's), (Start: 51 @43342 has 119 MA's), (67, 43285), (72, 43246), (93, 43138), (94, 43135), (97, 43117), (105, 43078), (106, 43075), (112, 43051), (117, 43033), (123, 43018), (140, 42979),

Gene: Hanray_74 Start: 44188, Stop: 43793, Start Num: 56

Candidate Starts for Hanray_74:

(Start: 51 @44212 has 119 MA's), (Start: 56 @44188 has 2 MA's), (68, 44152), (75, 44101), (87, 44047), (90, 44026), (93, 44005), (97, 43984), (98, 43978), (105, 43945), (106, 43942), (111, 43921), (112, 43918), (136, 43852), (137, 43849), (154, 43810), (155, 43807), (157, 43804),

Gene: HarryHoudini_75 Start: 44820, Stop: 44392, Start Num: 45

Candidate Starts for HarryHoudini_75:

(Start: 45 @44820 has 3 MA's), (Start: 51 @44808 has 119 MA's), (69, 44745), (70, 44727), (88, 44640), (90, 44622), (93, 44601), (106, 44538), (111, 44517), (112, 44514), (115, 44505), (138, 44439), (145, 44421), (153, 44406),

Gene: Heffalump_72 Start: 45189, Stop: 44770, Start Num: 51

Candidate Starts for Heffalump_72:

(32, 45237), (Start: 51 @45189 has 119 MA's), (69, 45126), (70, 45108), (90, 45003), (106, 44919), (112, 44895), (115, 44886), (130, 44841), (138, 44817), (142, 44808), (153, 44784),

Gene: Helmet_79 Start: 43804, Stop: 43391, Start Num: 39

Candidate Starts for Helmet_79:

(Start: 39 @43804 has 9 MA's), (Start: 51 @43777 has 119 MA's), (67, 43720), (72, 43681), (93, 43573), (94, 43570), (97, 43552), (105, 43513), (106, 43510), (112, 43486), (117, 43468), (123, 43453), (140, 43414),

Gene: Herbertwm_71 Start: 44474, Stop: 44079, Start Num: 51

Candidate Starts for Herbertwm_71:

(13, 44738), (26, 44561), (Start: 51 @44474 has 119 MA's), (69, 44411), (74, 44366), (80, 44342), (82, 44336), (87, 44312), (88, 44309), (92, 44279), (97, 44249), (98, 44243), (99, 44240), (105, 44210), (106, 44207), (119, 44159), (147, 44090),

Gene: Hexamo_76 Start: 43311, Stop: 42925, Start Num: 51

Candidate Starts for Hexamo_76:

(Start: 39 @43338 has 9 MA's), (Start: 51 @43311 has 119 MA's), (67, 43254), (72, 43215), (93, 43107), (94, 43104), (97, 43086), (105, 43047), (106, 43044), (112, 43020), (117, 43002), (123, 42987), (140, 42948),

Gene: Horex_74 Start: 44204, Stop: 43809, Start Num: 56

Candidate Starts for Horex_74:

(Start: 51 @44228 has 119 MA's), (Start: 56 @44204 has 2 MA's), (68, 44168), (75, 44117), (87, 44063), (90, 44042), (93, 44021), (97, 44000), (98, 43994), (105, 43961), (106, 43958), (111, 43937), (112, 43934), (136, 43868), (137, 43865), (154, 43826), (155, 43823), (157, 43820),

Gene: Hoot_72 Start: 41464, Stop: 41078, Start Num: 51

Candidate Starts for Hoot_72:

(Start: 44 @41479 has 15 MA's), (Start: 51 @41464 has 119 MA's), (Start: 56 @41440 has 2 MA's), (66, 41410), (69, 41401), (70, 41383), (72, 41368), (98, 41233), (105, 41200), (106, 41197), (112, 41173), (115, 41164), (130, 41131), (140, 41101), (142, 41098),

Gene: HortumSL17_77 Start: 44236, Stop: 43793, Start Num: 40

Candidate Starts for HortumSL17_77:

(14, 44461), (Start: 40 @44236 has 10 MA's), (Start: 51 @44212 has 119 MA's), (Start: 56 @44188 has 2 MA's), (68, 44152), (75, 44101), (87, 44047), (90, 44026), (93, 44005), (97, 43984), (98, 43978), (105, 43945), (106, 43942), (111, 43921), (112, 43918), (136, 43852), (137, 43849), (154, 43810), (155, 43807), (157, 43804),

Gene: Hutc2_72 Start: 43201, Stop: 42764, Start Num: 49

Candidate Starts for Hutc2_72:

(43, 43213), (Start: 49 @43201 has 27 MA's), (Start: 56 @43177 has 2 MA's), (69, 43138), (84, 43051), (90, 43012), (95, 42985), (97, 42970), (99, 42961), (105, 42931), (106, 42928), (111, 42907), (143, 42814), (150, 42805),

Gene: Insomnia_76 Start: 44493, Stop: 44056, Start Num: 49

Candidate Starts for Insomnia_76:

(43, 44505), (Start: 49 @44493 has 27 MA's), (Start: 56 @44469 has 2 MA's), (69, 44430), (84, 44343), (90, 44304), (95, 44277), (97, 44262), (99, 44253), (105, 44223), (106, 44220), (111, 44199), (143, 44106), (150, 44097),

Gene: IronMan_72 Start: 45946, Stop: 45518, Start Num: 40

Candidate Starts for IronMan_72:

(Start: 40 @45946 has 10 MA's), (67, 45862), (70, 45838), (74, 45811), (90, 45736), (106, 45649), (113, 45622), (125, 45586), (146, 45532), (148, 45529),

Gene: Iwokeuplikedis_76 Start: 45258, Stop: 44842, Start Num: 51

Candidate Starts for Iwokeuplikedis_76:

(Start: 51 @45258 has 119 MA's), (69, 45195), (70, 45177), (88, 45090), (90, 45072), (93, 45051), (98, 45024), (106, 44988), (111, 44967), (115, 44955), (138, 44889), (145, 44871), (153, 44856),

Gene: Jaan_73 Start: 46110, Stop: 45688, Start Num: 42

Candidate Starts for Jaan_73:

(Start: 42 @46110 has 4 MA's), (Start: 51 @46089 has 119 MA's), (60, 46059), (67, 46032), (70, 46008), (74, 45981), (83, 45948), (89, 45915), (90, 45906), (106, 45819), (113, 45792), (125, 45756), (133, 45735), (146, 45702), (148, 45699),

Gene: Jabith_76 Start: 44510, Stop: 44073, Start Num: 49

Candidate Starts for Jabith_76:

(43, 44522), (Start: 49 @44510 has 27 MA's), (Start: 56 @44486 has 2 MA's), (69, 44447), (84, 44360), (90, 44321), (95, 44294), (97, 44279), (99, 44270), (105, 44240), (106, 44237), (111, 44216), (143, 44123), (150, 44114),

Gene: Jeeves_78 Start: 44070, Stop: 43675, Start Num: 48

Candidate Starts for Jeeves_78:

(Start: 48 @44070 has 4 MA's), (84, 43926), (85, 43923), (88, 43905), (90, 43887), (92, 43875), (98, 43839), (106, 43806), (113, 43779), (114, 43776),

Gene: Jerm_76 Start: 45198, Stop: 44779, Start Num: 51

Candidate Starts for Jerm_76:

(22, 45303), (24, 45297), (30, 45246), (Start: 37 @45228 has 1 MA's), (43, 45213), (Start: 51 @45198 has 119 MA's), (69, 45135), (90, 45012), (93, 44991), (106, 44928), (115, 44895), (130, 44850), (133, 44841), (138, 44826), (145, 44808), (147, 44805), (153, 44793),

Gene: JewelBug_76 Start: 44366, Stop: 43965, Start Num: 44

Candidate Starts for JewelBug_76:

(Start: 44 @44366 has 15 MA's), (Start: 51 @44351 has 119 MA's), (Start: 56 @44327 has 2 MA's), (66, 44297), (69, 44288), (70, 44270), (72, 44255), (98, 44120), (105, 44087), (106, 44084), (112, 44060), (115, 44051), (130, 44018), (140, 43988), (142, 43985),

Gene: Jiawan_73 Start: 44220, Stop: 43825, Start Num: 56

Candidate Starts for Jiawan_73:

(Start: 51 @44244 has 119 MA's), (Start: 56 @44220 has 2 MA's), (68, 44184), (75, 44133), (87, 44079), (90, 44058), (93, 44037), (97, 44016), (98, 44010), (105, 43977), (106, 43974), (111, 43953), (112, 43950), (136, 43884), (137, 43881), (154, 43842), (155, 43839), (157, 43836),

Gene: Jordennis_75 Start: 43860, Stop: 43459, Start Num: 44

Candidate Starts for Jordennis_75:

(Start: 44 @43860 has 15 MA's), (Start: 51 @43845 has 119 MA's), (Start: 56 @43821 has 2 MA's), (66, 43791), (69, 43782), (70, 43764), (72, 43749), (98, 43614), (105, 43581), (106, 43578), (112, 43554), (115, 43545), (130, 43512), (140, 43482), (142, 43479),

Gene: Joselito_76 Start: 44530, Stop: 44093, Start Num: 49

Candidate Starts for Joselito_76:

(43, 44542), (Start: 49 @44530 has 27 MA's), (Start: 56 @44506 has 2 MA's), (69, 44467), (70, 44449), (84, 44380), (90, 44341), (95, 44314), (97, 44299), (99, 44290), (105, 44260), (106, 44257), (111, 44236), (143, 44143), (150, 44134),

Gene: Journey13_64 Start: 41400, Stop: 40975, Start Num: 51

Candidate Starts for Journey13_64:

(34, 41442), (38, 41430), (Start: 51 @41400 has 119 MA's), (54, 41382), (63, 41361), (83, 41256), (103, 41127), (112, 41094), (115, 41085), (130, 41046), (136, 41028), (158, 40980),

Gene: KatherineG_83 Start: 45215, Stop: 44817, Start Num: 51

Candidate Starts for KatherineG_83:

(Start: 51 @45215 has 119 MA's), (59, 45185), (73, 45107), (90, 45032), (92, 45020), (101, 44969), (105, 44951), (106, 44948), (129, 44873), (147, 44825),

Gene: Kazan_78 Start: 43634, Stop: 43233, Start Num: 44

Candidate Starts for Kazan_78:

(Start: 44 @43634 has 15 MA's), (Start: 51 @43619 has 119 MA's), (Start: 56 @43595 has 2 MA's), (66, 43565), (69, 43556), (70, 43538), (72, 43523), (98, 43388), (105, 43355), (106, 43352), (112, 43328), (115, 43319), (130, 43286), (140, 43256), (142, 43253),

Gene: Kerberos_77 Start: 45276, Stop: 44857, Start Num: 51

Candidate Starts for Kerberos_77:

(Start: 51 @45276 has 119 MA's), (66, 45222), (74, 45168), (90, 45093), (98, 45045), (105, 45012), (106, 45009), (111, 44988), (125, 44946), (130, 44934), (137, 44913), (147, 44889), (155, 44871),

Gene: Keziacharles14_73 Start: 44835, Stop: 44419, Start Num: 51

Candidate Starts for Keziacharles14_73:

(Start: 51 @44835 has 119 MA's), (Start: 56 @44811 has 2 MA's), (69, 44772), (70, 44754), (87, 44667), (90, 44646), (105, 44565), (106, 44562), (111, 44541), (117, 44520),

Gene: Kimba_75 Start: 44030, Stop: 43593, Start Num: 49

Candidate Starts for Kimba_75:

(43, 44042), (Start: 49 @44030 has 27 MA's), (Start: 56 @44006 has 2 MA's), (69, 43967), (70, 43949), (84, 43880), (90, 43841), (95, 43814), (97, 43799), (99, 43790), (105, 43760), (106, 43757), (111, 43736), (143, 43643), (150, 43634),

Gene: KingCyrus_74 Start: 46215, Stop: 45796, Start Num: 51

Candidate Starts for KingCyrus_74:

(30, 46263), (Start: 51 @46215 has 119 MA's), (61, 46179), (69, 46152), (70, 46134), (90, 46029), (106, 45945), (111, 45924), (112, 45921), (115, 45912), (127, 45873), (133, 45858), (138, 45843),

(145, 45825), (147, 45822), (153, 45810),

Gene: Kinmap_78 Start: 43580, Stop: 43182, Start Num: 51

Candidate Starts for Kinmap_78:

(Start: 51 @43580 has 119 MA's), (53, 43565), (70, 43499), (84, 43436), (105, 43316), (106, 43313), (108, 43304), (116, 43280), (152, 43187),

Gene: Kipper29_77 Start: 43647, Stop: 43246, Start Num: 44

Candidate Starts for Kipper29_77:

(Start: 44 @43647 has 15 MA's), (Start: 51 @43632 has 119 MA's), (Start: 56 @43608 has 2 MA's), (66, 43578), (69, 43569), (70, 43551), (72, 43536), (98, 43401), (105, 43368), (106, 43365), (112, 43341), (115, 43332), (130, 43299), (140, 43269), (142, 43266),

Gene: Klodlith_71 Start: 43378, Stop: 42980, Start Num: 55

Candidate Starts for Klodlith_71:

(Start: 51 @43399 has 119 MA's), (55, 43378), (Start: 56 @43375 has 2 MA's), (67, 43342), (86, 43234), (87, 43231), (90, 43210), (93, 43189), (105, 43129), (106, 43126), (111, 43105), (117, 43084), (130, 43054),

Gene: Koko_78 Start: 44166, Stop: 43780, Start Num: 51

Candidate Starts for Koko_78:

(Start: 39 @44193 has 9 MA's), (Start: 51 @44166 has 119 MA's), (67, 44109), (72, 44070), (93, 43962), (94, 43959), (97, 43941), (105, 43902), (106, 43899), (112, 43875), (117, 43857), (123, 43842), (140, 43803),

Gene: Landor_73 Start: 46033, Stop: 45611, Start Num: 42

Candidate Starts for Landor_73:

(Start: 42 @46033 has 4 MA's), (Start: 51 @46012 has 119 MA's), (60, 45982), (67, 45955), (70, 45931), (74, 45904), (83, 45871), (90, 45829), (106, 45742), (113, 45715), (125, 45679), (133, 45658), (146, 45625), (148, 45622),

Gene: Larenn_71 Start: 44473, Stop: 44057, Start Num: 51

Candidate Starts for Larenn_71:

(30, 44524), (Start: 51 @44473 has 119 MA's), (66, 44419), (69, 44410), (70, 44392), (80, 44338), (96, 44254), (98, 44239), (106, 44203), (111, 44182), (115, 44170), (130, 44131), (137, 44110), (147, 44086),

Gene: Leogania_73 Start: 45163, Stop: 44750, Start Num: 51

Candidate Starts for Leogania_73:

(Start: 51 @45163 has 119 MA's), (61, 45127), (87, 44998), (90, 44977), (106, 44893), (111, 44872), (115, 44860), (121, 44842), (123, 44836), (130, 44821), (152, 44767), (153, 44764),

Gene: Leviathan_76 Start: 45265, Stop: 44846, Start Num: 51

Candidate Starts for Leviathan_76:

(30, 45313), (Start: 37 @45295 has 1 MA's), (43, 45280), (Start: 51 @45265 has 119 MA's), (69, 45202), (90, 45079), (93, 45058), (106, 44995), (115, 44962), (130, 44917), (133, 44908), (138, 44893), (145, 44875), (147, 44872), (153, 44860),

Gene: LilTurb_75 Start: 45079, Stop: 44660, Start Num: 51

Candidate Starts for LilTurb_75:

(30, 45127), (Start: 37 @45109 has 1 MA's), (43, 45094), (Start: 51 @45079 has 119 MA's), (69, 45016), (90, 44893), (93, 44872), (106, 44809), (115, 44776), (130, 44731), (133, 44722), (138, 44707), (145, 44689), (147, 44686), (153, 44674),

Gene: Lilbunny_76 Start: 43435, Stop: 43022, Start Num: 39

Candidate Starts for Lilbunny_76:

(Start: 39 @43435 has 9 MA's), (Start: 51 @43408 has 119 MA's), (67, 43351), (72, 43312), (93, 43204), (94, 43201), (97, 43183), (105, 43144), (106, 43141), (112, 43117), (117, 43099), (123, 43084), (140, 43045),

Gene: Lilleskat_73 Start: 44169, Stop: 43750, Start Num: 51

Candidate Starts for Lilleskat_73:

(Start: 51 @44169 has 119 MA's), (Start: 56 @44145 has 2 MA's), (68, 44109), (75, 44058), (87, 44004), (90, 43983), (93, 43962), (97, 43941), (98, 43935), (105, 43902), (106, 43899), (111, 43878), (112, 43875), (136, 43809), (137, 43806), (154, 43767), (155, 43764), (157, 43761),

Gene: LoneWolf_77 Start: 44460, Stop: 44041, Start Num: 51

Candidate Starts for LoneWolf_77:

(3, 44889), (8, 44832), (9, 44763), (14, 44706), (15, 44703), (Start: 51 @44460 has 119 MA's), (Start: 56 @44436 has 2 MA's), (67, 44403), (70, 44379), (86, 44295), (87, 44292), (90, 44271), (105, 44190), (106, 44187), (111, 44166), (112, 44163), (117, 44145), (149, 44067), (154, 44055),

Gene: Looper_82 Start: 45058, Stop: 44660, Start Num: 51

Candidate Starts for Looper_82:

(Start: 51 @45058 has 119 MA's), (59, 45028), (73, 44950), (90, 44875), (92, 44863), (101, 44812), (105, 44794), (106, 44791), (129, 44716), (147, 44668),

Gene: Loser_76 Start: 45354, Stop: 44947, Start Num: 50

Candidate Starts for Loser_76:

(23, 45441), (Start: 50 @45354 has 2 MA's), (Start: 56 @45330 has 2 MA's), (63, 45315), (88, 45186), (90, 45168), (92, 45156), (112, 45060), (144, 44979),

Gene: Luchador_77 Start: 45554, Stop: 45159, Start Num: 48

Candidate Starts for Luchador_77:

(Start: 48 @45554 has 4 MA's), (Start: 56 @45530 has 2 MA's), (84, 45410), (85, 45407), (88, 45389), (90, 45371), (92, 45359), (98, 45323), (106, 45290), (113, 45263),

Gene: Lucivia_78 Start: 44809, Stop: 44372, Start Num: 49

Candidate Starts for Lucivia_78:

(43, 44821), (Start: 49 @44809 has 27 MA's), (Start: 56 @44785 has 2 MA's), (69, 44746), (70, 44728), (84, 44659), (90, 44620), (95, 44593), (97, 44578), (99, 44569), (105, 44539), (106, 44536), (111, 44515), (143, 44422), (150, 44413),

Gene: Lucyedi_79 Start: 45552, Stop: 45145, Start Num: 51

Candidate Starts for Lucyedi_79:

(Start: 51 @45552 has 119 MA's), (Start: 56 @45528 has 2 MA's), (62, 45516), (70, 45471), (85, 45402), (87, 45387), (90, 45366), (94, 45342), (105, 45285), (106, 45282), (115, 45249), (151, 45159), (152, 45156),

Gene: MaCh_77 Start: 44773, Stop: 44336, Start Num: 49

Candidate Starts for MaCh_77:

(43, 44785), (Start: 49 @44773 has 27 MA's), (Start: 56 @44749 has 2 MA's), (69, 44710), (70, 44692), (82, 44629), (84, 44623), (90, 44584), (95, 44557), (97, 44542), (99, 44533), (105, 44503), (106, 44500), (111, 44479), (143, 44386), (150, 44377),

Gene: Mabel_77 Start: 44774, Stop: 44337, Start Num: 49

Candidate Starts for Mabel_77:

(43, 44786), (Start: 49 @44774 has 27 MA's), (Start: 56 @44750 has 2 MA's), (69, 44711), (70, 44693), (84, 44624), (90, 44585), (95, 44558), (97, 44543), (99, 44534), (105, 44504), (106, 44501), (111, 44480), (143, 44387), (150, 44378),

Gene: Malec_72 Start: 45040, Stop: 44624, Start Num: 51

Candidate Starts for Malec_72:

(30, 45091), (Start: 51 @45040 has 119 MA's), (66, 44986), (69, 44977), (70, 44959), (80, 44905), (96, 44821), (98, 44806), (106, 44770), (111, 44749), (115, 44737), (130, 44698), (137, 44677), (147, 44653),

Gene: Maminiaina_76 Start: 44374, Stop: 43958, Start Num: 51

Candidate Starts for Maminiaina_76:

(Start: 40 @44398 has 10 MA's), (Start: 51 @44374 has 119 MA's), (Start: 56 @44350 has 2 MA's), (67, 44317), (87, 44206), (90, 44185), (105, 44104), (106, 44101), (111, 44080), (112, 44077), (117, 44059), (154, 43969),

Gene: McFly_78 Start: 44248, Stop: 43862, Start Num: 51

Candidate Starts for McFly_78:

(Start: 44 @44263 has 15 MA's), (Start: 51 @44248 has 119 MA's), (Start: 56 @44224 has 2 MA's), (66, 44194), (69, 44185), (70, 44167), (72, 44152), (98, 44017), (105, 43984), (106, 43981), (112, 43957), (115, 43948), (130, 43915), (140, 43885), (142, 43882),

Gene: MegTheThird_71 Start: 43394, Stop: 42978, Start Num: 51

Candidate Starts for MegTheThird_71:

(Start: 51 @43394 has 119 MA's), (Start: 56 @43370 has 2 MA's), (66, 43340), (67, 43337), (69, 43331), (86, 43229), (90, 43205), (93, 43184), (98, 43157), (105, 43124), (106, 43121), (111, 43100), (112, 43097),

Gene: MiculUcigas_75 Start: 44683, Stop: 44264, Start Num: 51

Candidate Starts for MiculUcigas_75:

(21, 44782), (23, 44776), (30, 44725), (Start: 51 @44683 has 119 MA's), (69, 44620), (70, 44602), (88, 44515), (93, 44476), (98, 44449), (106, 44413), (111, 44392), (115, 44380), (138, 44314), (145, 44296), (153, 44281),

Gene: Minispark_74 Start: 44005, Stop: 43586, Start Num: 51

Candidate Starts for Minispark_74:

(Start: 51 @44005 has 119 MA's), (Start: 56 @43981 has 2 MA's), (70, 43924), (87, 43837), (90, 43816), (98, 43768), (105, 43735), (106, 43732), (112, 43708), (117, 43690), (135, 43645),

Gene: MissWhite_73 Start: 43236, Stop: 42826, Start Num: 57

Candidate Starts for MissWhite_73:

(Start: 51 @43263 has 119 MA's), (Start: 57 @43236 has 1 MA's), (76, 43137), (85, 43107), (90, 43071), (103, 42990), (115, 42948), (127, 42915), (130, 42909), (133, 42900), (136, 42891), (159, 42840),

Gene: Mulciber_75 Start: 44315, Stop: 43878, Start Num: 49

Candidate Starts for Mulciber_75:

(43, 44327), (Start: 49 @44315 has 27 MA's), (Start: 56 @44291 has 2 MA's), (69, 44252), (70, 44234), (84, 44165), (90, 44126), (95, 44099), (97, 44084), (99, 44075), (105, 44045), (106, 44042), (111, 44021), (143, 43928), (150, 43919),

Gene: Munch_77 Start: 44778, Stop: 44341, Start Num: 49

Candidate Starts for Munch_77:

(43, 44790), (Start: 49 @44778 has 27 MA's), (Start: 56 @44754 has 2 MA's), (69, 44715), (70, 44697), (84, 44628), (90, 44589), (95, 44562), (97, 44547), (99, 44538), (105, 44508), (106, 44505), (111, 44484), (143, 44391), (150, 44382),

Gene: Myxus_76 Start: 44236, Stop: 43793, Start Num: 40

Candidate Starts for Myxus_76:

(14, 44461), (Start: 40 @44236 has 10 MA's), (Start: 51 @44212 has 119 MA's), (Start: 56 @44188 has 2 MA's), (68, 44152), (75, 44101), (87, 44047), (90, 44026), (93, 44005), (97, 43984), (98, 43978), (105, 43945), (106, 43942), (111, 43921), (112, 43918), (136, 43852), (137, 43849), (154, 43810), (155, 43807), (157, 43804),

Gene: NaSiaTalie_75 Start: 44777, Stop: 44358, Start Num: 51

Candidate Starts for NaSiaTalie_75:

(21, 44876), (23, 44870), (30, 44819), (Start: 51 @44777 has 119 MA's), (69, 44714), (70, 44696), (88, 44609), (93, 44570), (98, 44543), (106, 44507), (111, 44486), (112, 44483), (115, 44474), (138, 44408), (145, 44390), (153, 44375),

Gene: Naji_77 Start: 45277, Stop: 44858, Start Num: 51

Candidate Starts for Naji_77:

(Start: 51 @45277 has 119 MA's), (74, 45169), (90, 45094), (98, 45046), (105, 45013), (106, 45010), (111, 44989), (125, 44947), (137, 44914), (142, 44902), (147, 44890), (155, 44872),

Gene: Nedarya_78 Start: 44930, Stop: 44535, Start Num: 51

Candidate Starts for Nedarya_78:

(Start: 51 @44930 has 119 MA's), (59, 44903), (67, 44870), (84, 44786), (87, 44768), (88, 44765), (92, 44735), (105, 44666), (106, 44663), (126, 44597), (147, 44543),

Gene: Neeharika16_76 Start: 43730, Stop: 43329, Start Num: 44

Candidate Starts for Neeharika16_76:

(Start: 44 @43730 has 15 MA's), (Start: 51 @43715 has 119 MA's), (Start: 56 @43691 has 2 MA's), (66, 43661), (69, 43652), (70, 43634), (72, 43619), (98, 43484), (105, 43451), (106, 43448), (112, 43424), (115, 43415), (130, 43382), (140, 43352), (142, 43349),

Gene: Newrala_76 Start: 44069, Stop: 43668, Start Num: 44

Candidate Starts for Newrala_76:

(Start: 44 @44069 has 15 MA's), (Start: 51 @44054 has 119 MA's), (Start: 56 @44030 has 2 MA's), (66, 44000), (69, 43991), (70, 43973), (72, 43958), (98, 43823), (105, 43790), (106, 43787), (112, 43763), (115, 43754), (130, 43721), (140, 43691), (142, 43688),

Gene: NothingSpecial_70 Start: 44782, Stop: 44381, Start Num: 49

Candidate Starts for NothingSpecial_70:

(Start: 49 @44782 has 27 MA's), (Start: 51 @44779 has 119 MA's), (74, 44671), (90, 44596), (93, 44575), (97, 44554), (98, 44548), (99, 44545), (105, 44515), (106, 44512), (111, 44491), (112, 44488), (133, 44428), (136, 44419),

Gene: Odin_76 Start: 44758, Stop: 44339, Start Num: 51

Candidate Starts for Odin_76:

(27, 44836), (31, 44809), (33, 44806), (Start: 51 @44758 has 119 MA's), (76, 44638), (80, 44623), (82, 44617), (87, 44593), (93, 44551), (103, 44491), (104, 44488), (112, 44458), (115, 44449), (136, 44392), (153, 44353),

Gene: Onglai_74 Start: 42392, Stop: 41997, Start Num: 56

Candidate Starts for Onglai_74:

(Start: 51 @42416 has 119 MA's), (Start: 56 @42392 has 2 MA's), (68, 42356), (75, 42305), (87, 42251), (90, 42230), (93, 42209), (97, 42188), (98, 42182), (105, 42149), (106, 42146), (111, 42125), (112, 42122), (136, 42056), (137, 42053), (154, 42014), (155, 42011), (157, 42008),

Gene: Orange_76 Start: 44327, Stop: 43890, Start Num: 49

Candidate Starts for Orange_76:

(43, 44339), (Start: 49 @44327 has 27 MA's), (Start: 56 @44303 has 2 MA's), (69, 44264), (70, 44246), (84, 44177), (90, 44138), (95, 44111), (97, 44096), (99, 44087), (105, 44057), (106, 44054), (111, 44033), (143, 43940), (150, 43931),

Gene: PackMan_75 Start: 44087, Stop: 43668, Start Num: 51

Candidate Starts for PackMan_75:

(14, 44336), (Start: 40 @44111 has 10 MA's), (Start: 51 @44087 has 119 MA's), (Start: 56 @44063 has 2 MA's), (68, 44027), (75, 43976), (87, 43922), (90, 43901), (93, 43880), (97, 43859), (98, 43853), (105, 43820), (106, 43817), (111, 43796), (112, 43793), (136, 43727), (137, 43724), (154, 43685), (155, 43682), (157, 43679),

Gene: PainterBoy_78 Start: 45261, Stop: 44854, Start Num: 51

Candidate Starts for PainterBoy_78:

(Start: 51 @45261 has 119 MA's), (Start: 56 @45237 has 2 MA's), (62, 45225), (70, 45180), (85, 45111), (87, 45096), (90, 45075), (94, 45051), (105, 44994), (106, 44991), (115, 44958), (151, 44868), (152, 44865),

Gene: Petersenfast_71 Start: 43209, Stop: 42772, Start Num: 49

Candidate Starts for Petersenfast_71:

(43, 43221), (Start: 49 @43209 has 27 MA's), (Start: 56 @43185 has 2 MA's), (69, 43146), (84, 43059), (90, 43020), (95, 42993), (97, 42978), (99, 42969), (105, 42939), (106, 42936), (111, 42915), (143, 42822), (150, 42813),

Gene: Ph8s_79 Start: 44796, Stop: 44377, Start Num: 51

Candidate Starts for Ph8s_79:

(10, 45069), (11, 45066), (25, 44889), (33, 44844), (Start: 51 @44796 has 119 MA's), (69, 44733), (70, 44715), (71, 44712), (80, 44661), (90, 44610), (98, 44562), (103, 44529), (115, 44487), (136, 44430), (153, 44391),

Gene: Phaded_70 Start: 45992, Stop: 45570, Start Num: 42

Candidate Starts for Phaded_70:

(Start: 42 @45992 has 4 MA's), (Start: 51 @45971 has 119 MA's), (60, 45941), (67, 45914), (70, 45890), (74, 45863), (83, 45830), (90, 45788), (106, 45701), (113, 45674), (125, 45638), (133, 45617), (146, 45584), (148, 45581),

Gene: Phaeder_76 Start: 44087, Stop: 43668, Start Num: 51

Candidate Starts for Phaeder_76:

(14, 44336), (Start: 40 @44111 has 10 MA's), (Start: 51 @44087 has 119 MA's), (Start: 56 @44063 has 2 MA's), (68, 44027), (75, 43976), (87, 43922), (90, 43901), (93, 43880), (97, 43859), (98, 43853), (105, 43820), (106, 43817), (111, 43796), (112, 43793), (136, 43727), (137, 43724), (154, 43685), (155, 43682), (157, 43679),

Gene: Pharaoh_70 Start: 44179, Stop: 43772, Start Num: 51

Candidate Starts for Pharaoh_70:

(38, 44209), (Start: 51 @44179 has 119 MA's), (Start: 56 @44155 has 2 MA's), (61, 44143), (67, 44122), (81, 44041), (90, 43996), (98, 43942), (106, 43906), (109, 43894), (113, 43879), (118, 43864),

(153, 43783),

Gene: Phonnegut_76 Start: 44157, Stop: 43738, Start Num: 51

Candidate Starts for Phonnegut_76:

(Start: 51 @44157 has 119 MA's), (Start: 56 @44133 has 2 MA's), (68, 44097), (75, 44046), (87, 43992), (90, 43971), (93, 43950), (97, 43929), (98, 43923), (105, 43890), (106, 43887), (111, 43866), (112, 43863), (136, 43797), (137, 43794), (154, 43755), (155, 43752), (157, 43749),

Gene: Pioneer_76 Start: 44133, Stop: 43738, Start Num: 56

Candidate Starts for Pioneer_76:

(Start: 51 @44157 has 119 MA's), (Start: 56 @44133 has 2 MA's), (68, 44097), (75, 44046), (87, 43992), (90, 43971), (93, 43950), (97, 43929), (98, 43923), (105, 43890), (106, 43887), (111, 43866), (112, 43863), (136, 43797), (137, 43794), (154, 43755), (155, 43752), (157, 43749),

Gene: Piro94_74 Start: 44742, Stop: 44326, Start Num: 51

Candidate Starts for Piro94_74:

(30, 44793), (Start: 45 @44754 has 3 MA's), (Start: 51 @44742 has 119 MA's), (69, 44679), (70, 44661), (90, 44556), (93, 44535), (106, 44472), (111, 44451), (112, 44448), (115, 44439), (138, 44373), (145, 44355), (153, 44340),

Gene: Pmask_76 Start: 44267, Stop: 43866, Start Num: 44

Candidate Starts for Pmask_76:

(Start: 44 @44267 has 15 MA's), (Start: 51 @44252 has 119 MA's), (Start: 56 @44228 has 2 MA's), (66, 44198), (69, 44189), (70, 44171), (72, 44156), (98, 44021), (105, 43988), (106, 43985), (112, 43961), (115, 43952), (130, 43919), (140, 43889), (142, 43886),

Gene: Pomar16_77 Start: 45317, Stop: 44898, Start Num: 51

Candidate Starts for Pomar16_77:

(Start: 51 @45317 has 119 MA's), (66, 45263), (74, 45209), (90, 45134), (98, 45086), (105, 45053), (106, 45050), (111, 45029), (125, 44987), (130, 44975), (137, 44954), (142, 44942), (147, 44930), (155, 44912),

Gene: Power_74 Start: 45119, Stop: 44700, Start Num: 51

Candidate Starts for Power_74:

(35, 45158), (Start: 45 @45131 has 3 MA's), (Start: 51 @45119 has 119 MA's), (61, 45083), (65, 45068), (69, 45056), (70, 45038), (90, 44933), (92, 44921), (93, 44912), (111, 44828), (115, 44816), (130, 44771), (138, 44747), (147, 44726), (153, 44714),

Gene: Priamo_78 Start: 43907, Stop: 43521, Start Num: 51

Candidate Starts for Priamo_78:

(32, 43952), (Start: 39 @43931 has 9 MA's), (Start: 51 @43907 has 119 MA's), (72, 43811), (78, 43781), (93, 43703), (97, 43682), (105, 43643), (106, 43640), (112, 43616), (136, 43556),

Gene: Priya_74 Start: 43884, Stop: 43465, Start Num: 51

Candidate Starts for Priya_74:

(Start: 40 @43908 has 10 MA's), (Start: 51 @43884 has 119 MA's), (Start: 56 @43860 has 2 MA's), (68, 43824), (75, 43773), (87, 43719), (90, 43698), (93, 43677), (97, 43656), (98, 43650), (105, 43617), (106, 43614), (111, 43593), (112, 43590), (136, 43524), (137, 43521), (155, 43479), (157, 43476),

Gene: Pukovnik_71 Start: 45610, Stop: 45206, Start Num: 49

Candidate Starts for Pukovnik_71:

(Start: 49 @45610 has 27 MA's), (Start: 51 @45607 has 119 MA's), (74, 45499), (90, 45424), (97, 45382), (98, 45376), (105, 45343), (106, 45340), (111, 45319), (112, 45316), (133, 45256), (136,

45247), (142, 45232),

Gene: Qobbit_74 Start: 43870, Stop: 43427, Start Num: 40

Candidate Starts for Qobbit_74:

(Start: 40 @43870 has 10 MA's), (Start: 51 @43846 has 119 MA's), (Start: 56 @43822 has 2 MA's), (68, 43786), (75, 43735), (87, 43681), (90, 43660), (93, 43639), (97, 43618), (98, 43612), (105, 43579), (106, 43576), (111, 43555), (112, 43552), (136, 43486), (137, 43483), (155, 43441), (157, 43438),

Gene: QueenB2_72 Start: 44402, Stop: 43983, Start Num: 51

Candidate Starts for QueenB2_72:

(32, 44450), (Start: 51 @44402 has 119 MA's), (69, 44339), (70, 44321), (90, 44216), (106, 44132), (112, 44108), (115, 44099), (130, 44054), (138, 44030), (142, 44021), (153, 43997),

Gene: QueenBeesly_75 Start: 45076, Stop: 44657, Start Num: 51

Candidate Starts for QueenBeesly_75:

(35, 45115), (Start: 45 @45088 has 3 MA's), (Start: 51 @45076 has 119 MA's), (65, 45025), (69, 45013), (70, 44995), (90, 44890), (92, 44878), (93, 44869), (111, 44785), (115, 44773), (130, 44728), (138, 44704), (147, 44683), (153, 44671),

Gene: Rahalelujah_76 Start: 44020, Stop: 43601, Start Num: 51

Candidate Starts for Rahalelujah_76:

(Start: 51 @44020 has 119 MA's), (Start: 56 @43996 has 2 MA's), (70, 43939), (87, 43852), (90, 43831), (98, 43783), (105, 43750), (106, 43747), (112, 43723), (117, 43705), (135, 43660),

Gene: RedRock_73 Start: 45123, Stop: 44716, Start Num: 50

Candidate Starts for RedRock_73:

(32, 45162), (Start: 50 @45123 has 2 MA's), (Start: 56 @45099 has 2 MA's), (73, 45021), (88, 44955), (90, 44937), (111, 44832),

Gene: Retro23_75 Start: 44806, Stop: 44387, Start Num: 51

Candidate Starts for Retro23_75:

(18, 44974), (19, 44956), (20, 44953), (32, 44854), (Start: 51 @44806 has 119 MA's), (69, 44743), (70, 44725), (90, 44620), (106, 44536), (111, 44515), (115, 44503), (130, 44458), (133, 44449), (138, 44434), (142, 44425), (153, 44401),

Gene: Rifter_77 Start: 42938, Stop: 42552, Start Num: 51

Candidate Starts for Rifter_77:

(Start: 39 @42965 has 9 MA's), (Start: 51 @42938 has 119 MA's), (67, 42881), (72, 42842), (93, 42734), (94, 42731), (97, 42713), (105, 42674), (106, 42671), (112, 42647), (117, 42629), (123, 42614), (140, 42575),

Gene: Roksolana_77 Start: 43672, Stop: 43286, Start Num: 51

Candidate Starts for Roksolana_77:

(Start: 39 @43699 has 9 MA's), (Start: 51 @43672 has 119 MA's), (67, 43615), (72, 43576), (93, 43468), (94, 43465), (97, 43447), (105, 43408), (106, 43405), (112, 43381), (117, 43363), (123, 43348), (140, 43309),

Gene: RyeScarlet_77 Start: 44108, Stop: 43713, Start Num: 56

Candidate Starts for RyeScarlet_77:

(Start: 51 @44132 has 119 MA's), (Start: 56 @44108 has 2 MA's), (68, 44072), (75, 44021), (87, 43967), (90, 43946), (93, 43925), (97, 43904), (98, 43898), (105, 43865), (106, 43862), (111, 43841), (112, 43838), (136, 43772), (137, 43769), (154, 43730), (155, 43727), (157, 43724),

Gene: Sachima_72 Start: 44089, Stop: 43694, Start Num: 56

Candidate Starts for Sachima_72:

(Start: 51 @44113 has 119 MA's), (Start: 56 @44089 has 2 MA's), (68, 44053), (75, 44002), (87, 43948), (90, 43927), (93, 43906), (97, 43885), (98, 43879), (105, 43846), (106, 43843), (111, 43822), (112, 43819), (136, 43753), (137, 43750), (154, 43711), (155, 43708), (157, 43705),

Gene: Salz_72 Start: 43124, Stop: 42687, Start Num: 49

Candidate Starts for Salz_72:

(43, 43136), (Start: 49 @43124 has 27 MA's), (Start: 56 @43100 has 2 MA's), (69, 43061), (84, 42974), (90, 42935), (95, 42908), (97, 42893), (99, 42884), (105, 42854), (106, 42851), (111, 42830), (143, 42737), (150, 42728),

Gene: Saskia_74 Start: 43672, Stop: 43235, Start Num: 49

Candidate Starts for Saskia_74:

(43, 43684), (Start: 49 @43672 has 27 MA's), (Start: 56 @43648 has 2 MA's), (69, 43609), (84, 43522), (90, 43483), (95, 43456), (97, 43441), (99, 43432), (105, 43402), (106, 43399), (111, 43378), (143, 43285), (150, 43276),

Gene: Scherzo_75 Start: 44403, Stop: 43957, Start Num: 40

Candidate Starts for Scherzo_75:

(Start: 40 @44403 has 10 MA's), (Start: 51 @44379 has 119 MA's), (Start: 56 @44355 has 2 MA's), (68, 44319), (75, 44268), (87, 44214), (90, 44193), (93, 44172), (97, 44151), (98, 44145), (105, 44112), (106, 44109), (111, 44088), (112, 44085), (136, 44019), (137, 44016), (154, 43977),

Gene: SemperFi_75 Start: 44964, Stop: 44545, Start Num: 51

Candidate Starts for SemperFi_75:

(35, 45003), (Start: 45 @44976 has 3 MA's), (Start: 51 @44964 has 119 MA's), (65, 44913), (69, 44901), (70, 44883), (90, 44778), (92, 44766), (93, 44757), (111, 44673), (115, 44661), (130, 44616), (138, 44592), (147, 44571), (153, 44559),

Gene: Sham4_73 Start: 43208, Stop: 42771, Start Num: 49

Candidate Starts for Sham4_73:

(43, 43220), (Start: 49 @43208 has 27 MA's), (Start: 56 @43184 has 2 MA's), (69, 43145), (84, 43058), (90, 43019), (95, 42992), (97, 42977), (99, 42968), (105, 42938), (106, 42935), (111, 42914), (143, 42821), (150, 42812),

Gene: SheaKeira_70 Start: 43202, Stop: 42783, Start Num: 51

Candidate Starts for SheaKeira_70:

(Start: 51 @43202 has 119 MA's), (Start: 56 @43178 has 2 MA's), (69, 43139), (86, 43037), (87, 43034), (90, 43013), (93, 42992), (105, 42932), (106, 42929), (117, 42887),

Gene: Sknot_75 Start: 44777, Stop: 44358, Start Num: 51

Candidate Starts for Sknot_75:

(21, 44876), (23, 44870), (30, 44819), (Start: 51 @44777 has 119 MA's), (69, 44714), (70, 44696), (88, 44609), (93, 44570), (98, 44543), (106, 44507), (111, 44486), (112, 44483), (115, 44474), (138, 44408), (145, 44390), (153, 44375),

Gene: Smeagan_77 Start: 45356, Stop: 44937, Start Num: 51

Candidate Starts for Smeagan_77:

(30, 45404), (Start: 37 @45386 has 1 MA's), (43, 45371), (Start: 51 @45356 has 119 MA's), (69, 45293), (90, 45170), (93, 45149), (106, 45086), (115, 45053), (130, 45008), (133, 44999), (138, 44984), (145, 44966), (147, 44963), (153, 44951),

Gene: SnapTap_74 Start: 44775, Stop: 44356, Start Num: 51

Candidate Starts for SnapTap_74:

(35, 44814), (Start: 45 @44787 has 3 MA's), (Start: 51 @44775 has 119 MA's), (61, 44739), (65, 44724), (69, 44712), (70, 44694), (90, 44589), (92, 44577), (93, 44568), (111, 44484), (115, 44472), (130, 44427), (138, 44403), (147, 44382), (153, 44370),

Gene: Snape_77 Start: 44317, Stop: 43880, Start Num: 49

Candidate Starts for Snape_77:

(43, 44329), (Start: 49 @44317 has 27 MA's), (Start: 56 @44293 has 2 MA's), (69, 44254), (70, 44236), (84, 44167), (90, 44128), (95, 44101), (97, 44086), (99, 44077), (105, 44047), (106, 44044), (111, 44023), (143, 43930), (150, 43921),

Gene: SororFago_76 Start: 45272, Stop: 44877, Start Num: 48

Candidate Starts for SororFago_76:

(Start: 48 @45272 has 4 MA's), (70, 45191), (84, 45128), (92, 45077), (98, 45041), (106, 45008), (111, 44987), (114, 44978),

Gene: Spouty_74 Start: 43907, Stop: 43464, Start Num: 40

Candidate Starts for Spouty_74:

(Start: 40 @43907 has 10 MA's), (Start: 51 @43883 has 119 MA's), (Start: 56 @43859 has 2 MA's), (68, 43823), (75, 43772), (87, 43718), (90, 43697), (93, 43676), (97, 43655), (98, 43649), (105, 43616), (106, 43613), (111, 43592), (112, 43589), (136, 43523), (137, 43520), (155, 43478), (157, 43475),

Gene: StarStuff_77 Start: 45279, Stop: 44860, Start Num: 51

Candidate Starts for StarStuff_77:

(Start: 51 @45279 has 119 MA's), (74, 45171), (82, 45141), (90, 45096), (98, 45048), (105, 45015), (106, 45012), (111, 44991), (125, 44949), (137, 44916), (142, 44904), (147, 44892), (155, 44874),

Gene: Steamy_69 Start: 43627, Stop: 43226, Start Num: 51

Candidate Starts for Steamy_69:

(Start: 51 @43627 has 119 MA's), (68, 43567), (74, 43519), (77, 43504), (83, 43486), (90, 43444), (91, 43438), (101, 43381), (105, 43363), (116, 43324), (121, 43309), (125, 43297), (130, 43285), (137, 43264),

Gene: Sunhee_76 Start: 43354, Stop: 42959, Start Num: 48

Candidate Starts for Sunhee_76:

(Start: 48 @43354 has 4 MA's), (69, 43291), (84, 43210), (92, 43159), (98, 43123), (106, 43090), (107, 43084), (113, 43063), (140, 42982),

Gene: SuperAwesome_77 Start: 44306, Stop: 43905, Start Num: 44

Candidate Starts for SuperAwesome_77:

(Start: 44 @44306 has 15 MA's), (Start: 51 @44291 has 119 MA's), (Start: 56 @44267 has 2 MA's), (66, 44237), (69, 44228), (70, 44210), (72, 44195), (98, 44060), (105, 44027), (106, 44024), (112, 44000), (115, 43991), (130, 43958), (140, 43928), (142, 43925),

Gene: Superchunk_77 Start: 44436, Stop: 44017, Start Num: 51

Candidate Starts for Superchunk_77:

(33, 44484), (Start: 51 @44436 has 119 MA's), (71, 44352), (80, 44301), (82, 44295), (87, 44271), (90, 44250), (93, 44229), (103, 44169), (104, 44166), (112, 44136), (115, 44127), (136, 44070), (153, 44031),

Gene: SweetiePie_74 Start: 44907, Stop: 44488, Start Num: 51

Candidate Starts for SweetiePie_74:

(35, 44946), (Start: 45 @44919 has 3 MA's), (Start: 51 @44907 has 119 MA's), (65, 44856), (69, 44844), (70, 44826), (90, 44721), (92, 44709), (93, 44700), (111, 44616), (115, 44604), (130, 44559), (138, 44535), (147, 44514), (153, 44502),

Gene: TarsusIV_72 Start: 44821, Stop: 44408, Start Num: 51

Candidate Starts for TarsusIV_72:

(47, 44827), (Start: 51 @44821 has 119 MA's), (70, 44740), (85, 44671), (105, 44554), (106, 44551), (111, 44530), (115, 44518), (130, 44479), (153, 44422),

Gene: Temprado_78 Start: 43777, Stop: 43391, Start Num: 51

Candidate Starts for Temprado_78:

(Start: 39 @43804 has 9 MA's), (Start: 51 @43777 has 119 MA's), (67, 43720), (72, 43681), (93, 43573), (94, 43570), (97, 43552), (105, 43513), (106, 43510), (112, 43486), (117, 43468), (123, 43453), (140, 43414),

Gene: Terrific_75 Start: 44751, Stop: 44332, Start Num: 51

Candidate Starts for Terrific_75:

(21, 44850), (23, 44844), (30, 44793), (Start: 51 @44751 has 119 MA's), (69, 44688), (70, 44670), (88, 44583), (93, 44544), (98, 44517), (106, 44481), (111, 44460), (112, 44457), (115, 44448), (138, 44382), (145, 44364), (153, 44349),

Gene: Timothy_77 Start: 44294, Stop: 43857, Start Num: 49

Candidate Starts for Timothy_77:

(43, 44306), (Start: 49 @44294 has 27 MA's), (Start: 56 @44270 has 2 MA's), (69, 44231), (70, 44213), (84, 44144), (90, 44105), (95, 44078), (97, 44063), (99, 44054), (105, 44024), (106, 44021), (111, 44000), (143, 43907), (150, 43898),

Gene: TinyTimmy_75 Start: 44023, Stop: 43586, Start Num: 49

Candidate Starts for TinyTimmy_75:

(43, 44035), (Start: 49 @44023 has 27 MA's), (Start: 56 @43999 has 2 MA's), (69, 43960), (70, 43942), (84, 43873), (90, 43834), (95, 43807), (97, 43792), (99, 43783), (105, 43753), (106, 43750), (111, 43729), (143, 43636), (150, 43627),

Gene: Toaka_76 Start: 44412, Stop: 43990, Start Num: 51

Candidate Starts for Toaka_76:

(Start: 51 @44412 has 119 MA's), (Start: 56 @44388 has 2 MA's), (70, 44331), (86, 44247), (87, 44244), (90, 44223), (93, 44202), (95, 44196), (97, 44181), (98, 44175), (105, 44142), (106, 44139), (135, 44052), (154, 44007), (155, 44004), (157, 44001),

Gene: Tomathan_77 Start: 45390, Stop: 44971, Start Num: 51

Candidate Starts for Tomathan_77:

(Start: 51 @45390 has 119 MA's), (66, 45336), (74, 45282), (90, 45207), (98, 45159), (105, 45126), (106, 45123), (111, 45102), (125, 45060), (130, 45048), (137, 45027), (142, 45015), (147, 45003), (155, 44985),

Gene: ToneTone_74 Start: 43337, Stop: 42951, Start Num: 51

Candidate Starts for ToneTone_74:

(Start: 39 @43364 has 9 MA's), (Start: 51 @43337 has 119 MA's), (67, 43280), (72, 43241), (93, 43133), (94, 43130), (97, 43112), (105, 43073), (106, 43070), (112, 43046), (117, 43028), (123, 43013), (140, 42974),

Gene: Travvers_76 Start: 45276, Stop: 44857, Start Num: 51

Candidate Starts for Travvers_76:

(Start: 51 @45276 has 119 MA's), (74, 45168), (90, 45093), (98, 45045), (105, 45012), (106, 45009), (111, 44988), (125, 44946), (137, 44913), (142, 44901), (147, 44889), (155, 44871),

Gene: Tristan_71 Start: 45843, Stop: 45430, Start Num: 51

Candidate Starts for Tristan_71:

(Start: 51 @45843 has 119 MA's), (52, 45831), (Start: 56 @45819 has 2 MA's), (68, 45783), (70, 45762), (74, 45735), (85, 45696), (90, 45660), (98, 45612), (106, 45573), (111, 45552), (119, 45525), (122, 45519), (133, 45486),

Gene: Trooper_74 Start: 44793, Stop: 44374, Start Num: 51

Candidate Starts for Trooper_74:

(18, 44961), (19, 44943), (20, 44940), (30, 44844), (Start: 37 @44826 has 1 MA's), (Start: 45 @44805 has 3 MA's), (Start: 51 @44793 has 119 MA's), (61, 44757), (69, 44730), (70, 44712), (90, 44607), (98, 44559), (106, 44523), (111, 44502), (112, 44499), (115, 44490), (130, 44445), (138, 44421), (142, 44412), (153, 44388),

Gene: Tubs_76 Start: 44087, Stop: 43668, Start Num: 51

Candidate Starts for Tubs_76:

(14, 44336), (Start: 40 @44111 has 10 MA's), (Start: 51 @44087 has 119 MA's), (Start: 56 @44063 has 2 MA's), (68, 44027), (75, 43976), (87, 43922), (90, 43901), (93, 43880), (97, 43859), (98, 43853), (105, 43820), (106, 43817), (111, 43796), (112, 43793), (136, 43727), (137, 43724), (154, 43685), (155, 43682), (157, 43679),

Gene: Tucker_77 Start: 43540, Stop: 43154, Start Num: 51

Candidate Starts for Tucker_77:

(Start: 39 @43567 has 9 MA's), (Start: 51 @43540 has 119 MA's), (67, 43483), (72, 43444), (93, 43336), (94, 43333), (97, 43315), (105, 43276), (106, 43273), (112, 43249), (117, 43231), (123, 43216), (140, 43177),

Gene: Turbido_75 Start: 45075, Stop: 44656, Start Num: 51

Candidate Starts for Turbido_75:

(Start: 51 @45075 has 119 MA's), (69, 45012), (90, 44889), (93, 44868), (106, 44805), (111, 44784), (112, 44781), (115, 44772), (138, 44703), (147, 44682), (153, 44670),

Gene: Ugenie5_71 Start: 44378, Stop: 43956, Start Num: 51

Candidate Starts for Ugenie5_71:

(Start: 40 @44402 has 10 MA's), (Start: 51 @44378 has 119 MA's), (Start: 56 @44354 has 2 MA's), (68, 44318), (75, 44267), (87, 44213), (90, 44192), (93, 44171), (97, 44150), (98, 44144), (105, 44111), (106, 44108), (111, 44087), (112, 44084), (136, 44018), (137, 44015), (154, 43976),

Gene: Updawg_75 Start: 44641, Stop: 44222, Start Num: 51

Candidate Starts for Updawg_75:

(30, 44683), (Start: 51 @44641 has 119 MA's), (69, 44578), (70, 44560), (88, 44473), (93, 44434), (98, 44407), (106, 44371), (111, 44350), (112, 44347), (115, 44338), (138, 44272), (145, 44254), (153, 44239),

Gene: VC3_76 Start: 44797, Stop: 44378, Start Num: 51

Candidate Starts for VC3_76:

(Start: 51 @44797 has 119 MA's), (66, 44743), (74, 44689), (90, 44614), (98, 44566), (105, 44533), (106, 44530), (111, 44509), (125, 44467), (137, 44434), (147, 44410), (155, 44392),

Gene: Vanisoa_73 Start: 44752, Stop: 44333, Start Num: 51

Candidate Starts for Vanisoa_73:

(Start: 51 @44752 has 119 MA's), (Start: 56 @44728 has 2 MA's), (70, 44671), (86, 44587), (105, 44482), (106, 44479), (117, 44437),

Gene: VohminGhazi_77 Start: 43629, Stop: 43228, Start Num: 44

Candidate Starts for VohminGhazi_77:

(Start: 44 @43629 has 15 MA's), (Start: 51 @43614 has 119 MA's), (Start: 56 @43590 has 2 MA's), (66, 43560), (69, 43551), (70, 43533), (72, 43518), (98, 43383), (105, 43350), (106, 43347), (112, 43323), (115, 43314), (130, 43281), (140, 43251), (142, 43248),

Gene: Whabigail7_75 Start: 45075, Stop: 44656, Start Num: 51

Candidate Starts for Whabigail7_75:

(30, 45123), (Start: 37 @45105 has 1 MA's), (43, 45090), (Start: 51 @45075 has 119 MA's), (69, 45012), (90, 44889), (93, 44868), (106, 44805), (115, 44772), (130, 44727), (133, 44718), (138, 44703), (145, 44685), (147, 44682), (153, 44670),

Gene: WideWale_75 Start: 44641, Stop: 44222, Start Num: 51

Candidate Starts for WideWale_75:

(30, 44683), (Start: 51 @44641 has 119 MA's), (69, 44578), (70, 44560), (88, 44473), (93, 44434), (98, 44407), (106, 44371), (111, 44350), (112, 44347), (115, 44338), (138, 44272), (145, 44254), (153, 44239),

Gene: Wiks_76 Start: 43408, Stop: 43022, Start Num: 51

Candidate Starts for Wiks_76:

(Start: 39 @43435 has 9 MA's), (Start: 51 @43408 has 119 MA's), (67, 43351), (72, 43312), (93, 43204), (94, 43201), (97, 43183), (105, 43144), (106, 43141), (112, 43117), (117, 43099), (123, 43084), (140, 43045),

Gene: Wolpertinger_76 Start: 44326, Stop: 43889, Start Num: 49

Candidate Starts for Wolpertinger_76:

(43, 44338), (Start: 49 @44326 has 27 MA's), (Start: 56 @44302 has 2 MA's), (69, 44263), (84, 44176), (90, 44137), (95, 44110), (97, 44095), (99, 44086), (105, 44056), (106, 44053), (111, 44032), (143, 43939), (150, 43930),

Gene: WorldCup_74 Start: 44017, Stop: 43595, Start Num: 51

Candidate Starts for WorldCup_74:

(Start: 51 @44017 has 119 MA's), (Start: 56 @43993 has 2 MA's), (69, 43951), (86, 43849), (88, 43843), (105, 43744), (106, 43741), (117, 43699),

Gene: WunderPhul_77 Start: 43433, Stop: 43020, Start Num: 39

Candidate Starts for WunderPhul_77:

(Start: 39 @43433 has 9 MA's), (Start: 51 @43406 has 119 MA's), (67, 43349), (72, 43310), (93, 43202), (94, 43199), (97, 43181), (105, 43142), (106, 43139), (112, 43115), (117, 43097), (123, 43082), (140, 43043),

Gene: XianYue_70 Start: 44566, Stop: 44156, Start Num: 51

Candidate Starts for XianYue_70:

(28, 44623), (Start: 51 @44566 has 119 MA's), (70, 44485), (79, 44434), (98, 44335), (105, 44302), (106, 44299), (110, 44284), (121, 44248), (142, 44194), (145, 44185), (152, 44173),

Gene: Yecey3_78 Start: 44191, Stop: 43790, Start Num: 49

Candidate Starts for Yecey3_78:

(Start: 49 @44191 has 27 MA's), (Start: 56 @44167 has 2 MA's), (83, 44050), (93, 43987), (98, 43960), (105, 43927), (128, 43852),

Gene: Yokurt_76 Start: 43408, Stop: 43022, Start Num: 51

Candidate Starts for Yokurt_76:

(Start: 39 @43435 has 9 MA's), (Start: 51 @43408 has 119 MA's), (67, 43351), (72, 43312), (93, 43204), (94, 43201), (97, 43183), (105, 43144), (106, 43141), (112, 43117), (117, 43099), (123, 43084), (140, 43045),

Gene: Zaka_77 Start: 43435, Stop: 43022, Start Num: 39

Candidate Starts for Zaka_77:

(Start: 39 @43435 has 9 MA's), (Start: 51 @43408 has 119 MA's), (67, 43351), (72, 43312), (93, 43204), (94, 43201), (97, 43183), (105, 43144), (106, 43141), (112, 43117), (117, 43099), (123, 43084), (140, 43045),

Gene: Zimmer_73 Start: 45201, Stop: 44794, Start Num: 46

Candidate Starts for Zimmer_73:

(29, 45228), (Start: 46 @45201 has 1 MA's), (67, 45138), (74, 45087), (83, 45054), (90, 45012), (97, 44970), (105, 44928), (106, 44925),

Gene: Zulu_78 Start: 43786, Stop: 43400, Start Num: 51

Candidate Starts for Zulu_78:

(Start: 39 @43813 has 9 MA's), (Start: 51 @43786 has 119 MA's), (67, 43729), (72, 43690), (93, 43582), (94, 43579), (97, 43561), (105, 43522), (106, 43519), (112, 43495), (117, 43477), (123, 43462), (140, 43423),