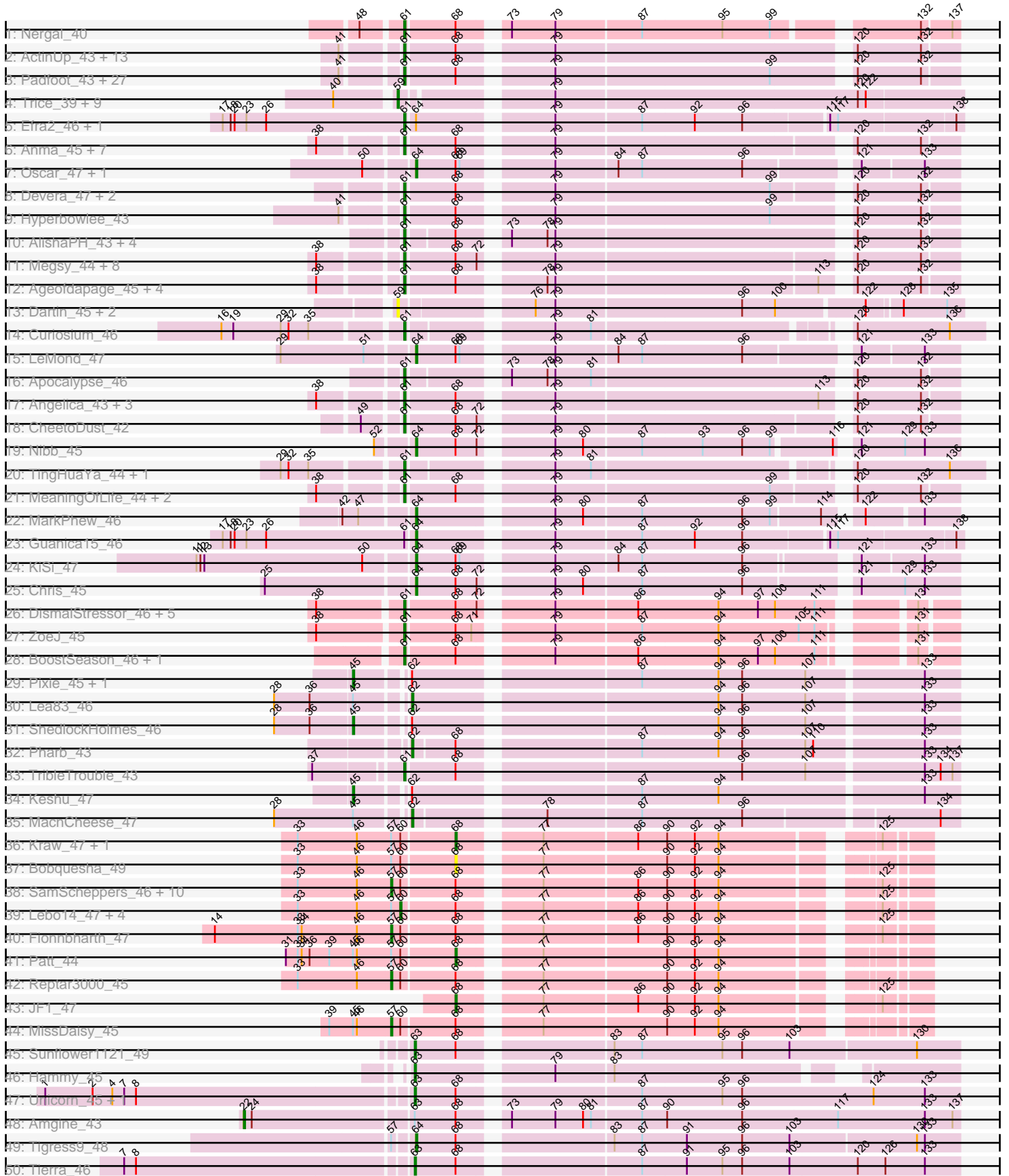
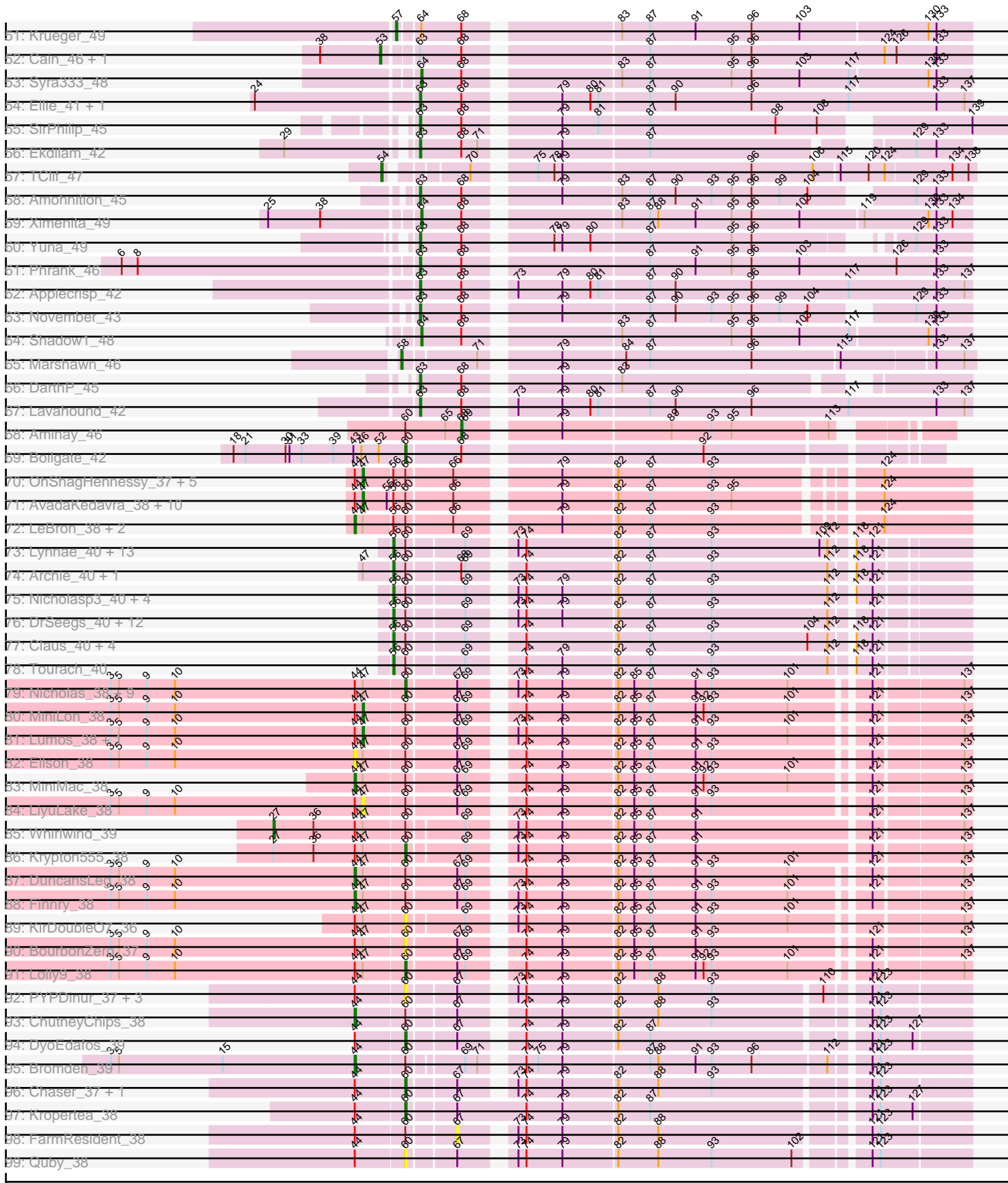


Pham 304674



Pham 304674



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 304674 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304674 has 273 members, 33 are drafts.

Phages represented in each track:

- Track 1 : Nergal_40
- Track 2 : ActinUp_43, Jayhawk_44, BarrelRoll_43, Adephagia_43, Atiba_43, TruffulaTree_43, Slimphazie_43, Rapunzel97_43, Veliki_43, Ramen_43, HedwigODU_43, Tachez_43, Emerson_44, Padpat_44
- Track 3 : Padfoot_43, Topper_43, Dalmuri_43, CaseJules_44, Jeckyll_43, Llorens_43, Rosmarinus_43, CREW_43, Boiiii_43, Joy99_43, Asayake_43, BEEST_43, CallaLilly_43, Belladonna_43, Homura_43, Blizzard_43, Inky_43, Spock_43, JAWS_43, Lunahalos_43, Capricorn_43, ShiaSurprise_44, Durfee_43, Piatt_43, BGlluviae_43, Jarvi_43, Peel_43, Twitch_43
- Track 4 : Trice_39, Amelie_38, Binglebops_38, Nikao_41, Teejan_41, Torres_41, SgtBeansprout_38, Mdavu_39, Enkosi_41, Nutello_38
- Track 5 : Efra2_46, Yunkel11_46
- Track 6 : Anma_45, DartGoblin_45, Bella96_44, Beezoo_45, Urkel_44, SamuelLPlaqson_44, TiniBug_44, DrHayes_44
- Track 7 : Oscar_47, Scarlett_47
- Track 8 : Devera_47, Illumine_46, Dole_46
- Track 9 : Hyperbowlee_43
- Track 10 : AlishaPH_43, Geraldini_45, Pokerus_42, BaghaKamala_42, Clipper_46
- Track 11 : Megsy_44, LindNT_43, Zavala_44, Prithvi_44, Mynx_44, Pisa1_43, TreyKay_44, CrimD_43, TaiwanKao_45
- Track 12 : Ageofdapage_45, Adonis_43, LaterM_44, Stinson_44, Murucutumbu_44
- Track 13 : Dartin_45, McMater_45, Richo_45
- Track 14 : Curiosium_46
- Track 15 : LeMond_47
- Track 16 : Apocalypse_46
- Track 17 : Angelica_43, Anaya_45, Deby_43, Sulley_43
- Track 18 : CheetoDust_42
- Track 19 : Nibb_45
- Track 20 : TingHuaYa_44, LastHope_46
- Track 21 : MeaningOfLife_44, Ganymede_44, QuincyRose_42
- Track 22 : MarkPhew_46
- Track 23 : Guanica15_46
- Track 24 : KiSi_47
- Track 25 : Chris_45
- Track 26 : DismalStressor_46, Findley_46, Strobilo_46, Milly_46, Marcoliusprime_46, DismalFunk_46
- Track 27 : ZoeJ_45

- Track 28 : BoostSeason_46, Mufasa_46
- Track 29 : Pixie_45, TBond007_45
- Track 30 : Lea83_46
- Track 31 : ShedlockHolmes_46
- Track 32 : Pharb_43
- Track 33 : TribbleTrouble_43
- Track 34 : Keshu_47
- Track 35 : MacnCheese_47
- Track 36 : Kraw_47, Qhanda_49
- Track 37 : Bobquesha_49
- Track 38 : SamScheppers_46, Chancellor_47, Juliette_49, Eponine_49, Slarp_47, YasnayaPolyana_47, Wintermute_47, Cheetobro_47, Malthus_48, Mitti_47, Ruthiejr_48
- Track 39 : Lebo14_47, OmniCritical_46, Taquito_47, Y10_46, Y2_46
- Track 40 : Fionnbharth_47
- Track 41 : Patt_44
- Track 42 : Reptar3000_45
- Track 43 : JF1_47
- Track 44 : MissDaisy_45
- Track 45 : Sunflower1121_49
- Track 46 : Hammy_45
- Track 47 : Unicorn_45, PhelpsODU_45
- Track 48 : Amgine_43
- Track 49 : Tigress9_48
- Track 50 : Tierra_46
- Track 51 : Krueger_49
- Track 52 : Cain_46, Bryler_46
- Track 53 : Syra333_48
- Track 54 : Ellie_41, Fefferhead_43
- Track 55 : SirPhilip_45
- Track 56 : Ekdilam_42
- Track 57 : TClif_47
- Track 58 : Amohnition_45
- Track 59 : Ximenita_49
- Track 60 : Yuna_49
- Track 61 : Phrank_46
- Track 62 : Applecrisp_42
- Track 63 : November_43
- Track 64 : Shadow1_48
- Track 65 : Marshawn_46
- Track 66 : DARTH_45
- Track 67 : Lavahound_42
- Track 68 : Aminay_46
- Track 69 : Boilgate_42
- Track 70 : OhShagHennessy_37, DirkDirk_37, Poochiewood_37, Wamburgxpress_38, Enceladus_37, Appletree2_37
- Track 71 : AvadaKedavra_38, Calm_38, Tyson_37, Rose5_37, CicholasNage_38, Halena_37, Wyatt2_38, MAckerman_38, Zaria_38, Acquire49_38, Silverleaf_37
- Track 72 : LeBron_38, UPIE_38, JoeDirt_37
- Track 73 : Lynnae_40, Lewan_40, Sarshaun_40, Kahlid_40, Hafay_40, Crossroads_40, Soap141_40, Loadrie_40, GuuelaD_40, Wilder_40, OverPar_41, MkaliMinitis3_40, Wigglewiggle_40, Zakai_40
- Track 74 : Archie_40, Bazzle_40

- Track 75 : Nicholasp3_40, Rossetti_40, Finemlucis_40, Gardann_40, Underpass_40
- Track 76 : DrSeegs_40, Winky_40, SoJulia_41, Gabriela_40, Rumpelstiltskin_40, Breezona_40, BobsGarage_40, Netyap_40, BigCheese_40, LilDestine_40, Faith1_40, Vetric_40, Miley16_40
- Track 77 : Claus_40, Baoshan_39, DHan_41, ZhongYanYuan_39, DanBing_40
- Track 78 : Tourach_40
- Track 79 : Nicholas_38, Red305_38, Jubie_38, Snenia_38, Moostard_38, Clautastrophe_38, Bellis_38, MsGreen_38, Jobypre_38, TriFive_38
- Track 80 : MiniLon_38
- Track 81 : Lumos_38, Kingsolomon_38
- Track 82 : Ellson_38
- Track 83 : MiniMac_38
- Track 84 : LiyuLake_38
- Track 85 : Whirlwind_39
- Track 86 : Krypton555_38
- Track 87 : DuncansLeg_38
- Track 88 : Finnry_38
- Track 89 : KirDoubleO7_36
- Track 90 : BourbonZero_37
- Track 91 : Lolly9_38
- Track 92 : PYPDinur_37, Douzhi_37, BrainDrainer_38, Sheng711_38
- Track 93 : ChutneyChips_38
- Track 94 : DyoEdafos_39
- Track 95 : Bromden_39
- Track 96 : Chaser_37, Douge_37
- Track 97 : Kropertea_38
- Track 98 : FarmResident_38
- Track 99 : Quby_38

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

The start number called the most often in the published annotations is 61, it was called in 94 of the 240 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_43, Adephagia_43, Adonis_43, Ageofdapage_45, AlishaPH_43, Anaya_45, Angelica_43, Anma_45, Apocalypse_46, Asayake_43, Atiba_43, BEEST_43, BGlluviae_43, BaghaKamala_42, BarrelRoll_43, Beezoo_45, Bella96_44, Belladonna_43, Blizzard_43, Boiiii_43, BoostSeason_46, CREW_43, CallaLilly_43, Capricorn_43, CaseJules_44, CheetoDust_42, Clipper_46, CrimD_43, Curiosium_46, Dalmuri_43, DartGoblin_45, Deby_43, Devera_47, DismalFunk_46, DismalStressor_46, Dole_46, DrHayes_44, Durfee_43, Efra2_46, Emerson_44, Findley_46, Ganymede_44, Geraldini_45, HedwigODU_43, Homura_43, Hyperbowlee_43, Illumine_46, Inky_43, JAWS_43, Jarvi_43, Jayhawk_44, Jeckyll_43, Joy99_43, LastHope_46, LaterM_44, LindNT_43, Llorens_43, Lunahalos_43, Marcoliusprime_46, MeaningOfLife_44, Megsy_44, Milly_46, Mufasa_46, Murucutumbu_44, Mynx_44, Nergal_40, Padfoot_43, Padpat_44, Peel_43, Piatt_43, Pisa1_43, Pokerus_42, Prithvi_44, QuincyRose_42, Ramen_43, Rapunzel97_43, Rosmarinus_43, SamuelLPlaqson_44, ShiaSurprise_44, Slimphazie_43, Spock_43, Stinson_44, Strobilo_46, Sulley_43, Tachez_43,

TaiwanKao_45, TingHuaYa_44, TiniBug_44, Topper_43, TreyKay_44, TribbleTrouble_43, TruffulaTree_43, Twitch_43, Urkel_44, Veliki_43, Yunkel11_46, Zavala_44, ZoeJ_45,

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

- Guanica15_46,

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

- Acquire49_38, Amelie_38, Amgine_43, Aminay_46, Amohnition_45, Applecrisp_42, Appletree2_37, Archie_40, AvadaKedavra_38, Baoshan_39, Bazzle_40, Bellis_38, BigCheese_40, Binglebops_38, Bobquesha_49, BobsGarage_40, Boilgate_42, BourbonZero_37, BrainDrainer_38, Breezona_40, Bromden_39, Bryler_46, Cain_46, Calm_38, Chancellor_47, Chaser_37, Cheetobro_47, Chris_45, ChutneyChips_38, CicholasNage_38, Claus_40, Clautastrophe_38, Crossroads_40, DHan_41, DanBing_40, DARTH_P_45, Dartin_45, DirkDirk_37, Douge_37, Douzhi_37, DrSeegs_40, DuncansLeg_38, DyoEdafos_39, Ekdilam_42, Ellie_41, Ellson_38, Enceladus_37, Enkosi_41, Eponine_49, Faith1_40, FarmResident_38, Fefferhead_43, Finemlucis_40, Finnry_38, Fionnbharth_47, Gabriela_40, Gardann_40, GuuelaD_40, Hafay_40, Halena_37, Hammy_45, JF1_47, Jobypre_38, JoeDirt_37, Jubie_38, Juliette_49, Kahlid_40, Keshu_47, KiSi_47, Kingsolomon_38, KirDoubleO7_36, Kraw_47, Kropertea_38, Krueger_49, Krypton555_38, Lavahound_42, LeBron_38, LeMond_47, Lea83_46, Lebo14_47, Lewan_40, LilDestine_40, LiyuLake_38, Loadrie_40, Lolly9_38, Lumos_38, Lynnae_40, MAckerman_38, MacnCheese_47, Malthus_48, MarkPhew_46, Marshawn_46, McMater_45, Mdavu_39, Miley16_40, MiniLon_38, MiniMac_38, MissDaisy_45, Mitti_47, MkaliMitinis3_40, Moostard_38, MsGreen_38, Netyap_40, Nibb_45, Nicholas_38, Nicholasp3_40, Nikao_41, November_43, Nutello_38, OhShagHennessy_37, OmniCritical_46, Oscar_47, OverPar_41, PYPDinur_37, Patt_44, Pharb_43, PhelpsODU_45, Phrank_46, Pixie_45, Poochiewood_37, Qhanda_49, Quby_38, Red305_38, Reptar3000_45, Richo_45, Rose5_37, Rossetti_40, Rumpelstiltskin_40, Ruthiejr_48, SamScheppers_46, Sarshaun_40, Scarlett_47, SgtBeansprout_38, Shadow1_48, ShedlockHolmes_46, Sheng711_38, Silverleaf_37, SirPhilip_45, Slarp_47, Slenia_38, SoJulia_41, Soap141_40, Sunflower1121_49, Syra333_48, TBond007_45, TClif_47, Taquito_47, Teejan_41, Tierra_46, Tigress9_48, Torres_41, Tourach_40, TriFive_38, Trice_39, Tyson_37, UPIE_38, Underpass_40, Unicorn_45, Vetrix_40, Wamburggrxpress_38, Whirlwind_39, Wigglewiggle_40, Wilder_40, Winky_40, Wintermute_47, Wyatt2_38, Ximenita_49, Y10_46, Y2_46, YasnayaPolyana_47, Yuna_49, Zakai_40, Zaria_38, ZhongYanYuan_39,

Summary by start number:

Start 22:

- Found in 1 of 273 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 240
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amgine_43 (K6),

Start 27:

- Found in 2 of 273 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 240
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Whirlwind_39 (L3),

Start 44:

- Found in 55 of 273 (20.1%) of genes in pham
- Manual Annotations of this start: 8 of 240
- Called 16.4% of time when present
- Phage (with cluster) where this start called: Bromden_39 (L4), ChutneyChips_38 (L4), DuncansLeg_38 (L3), Ellson_38 (L3), Finnry_38 (L3), JoeDirt_37 (L1), LeBron_38 (L1), MiniMac_38 (L3), UPIE_38 (L1),

Start 45:

- Found in 8 of 273 (2.9%) of genes in pham
- Manual Annotations of this start: 4 of 240
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Keshu_47 (K3), Pixie_45 (K3), ShedlockHolmes_46 (K3), TBond007_45 (K3),

Start 47:

- Found in 46 of 273 (16.8%) of genes in pham
- Manual Annotations of this start: 19 of 240
- Called 45.7% of time when present
- Phage (with cluster) where this start called: Acquire49_38 (L1), Appletree2_37 (L1), AvadaKedavra_38 (L1), Calm_38 (L1), CicholasNage_38 (L1), DirkDirk_37 (L1), Enceladus_37 (L1), Halena_37 (L1), Kingsolomon_38 (L3), LiyuLake_38 (L3), Lumos_38 (L3), MAckerman_38 (L1), MiniLon_38 (L3), OhShagHennessy_37 (L1), Pochiewood_37 (L1), Rose5_37 (L1), Silverleaf_37 (L1), Tyson_37 (L1), Wamburgxpress_38 (L1), Wyatt2_38 (L1), Zaria_38 (L1),

Start 53:

- Found in 2 of 273 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 240
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bryler_46 (K6), Cain_46 (K6),

Start 54:

- Found in 1 of 273 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 240
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TClif_47 (K6),

Start 56:

- Found in 60 of 273 (22.0%) of genes in pham
- Manual Annotations of this start: 30 of 240
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Archie_40 (L2), Baoshan_39 (L2), Bazzle_40 (L2), BigCheese_40 (L2), BobsGarage_40 (L2), Breezona_40 (L2), Claus_40 (L2), Crossroads_40 (L2), DHan_41 (L2), DanBing_40 (L2), DrSeegs_40 (L2), Faith1_40 (L2), Finemlucis_40 (L2), Gabriela_40 (L2), Gardann_40 (L2), GuuelaD_40 (L2), Hafay_40 (L2), Kahlid_40 (L2), Lewan_40 (L2), LilDestine_40 (L2), Loadrie_40 (L2), Lynnae_40 (L2), Miley16_40 (L2), MkaliMitinis3_40 (L2), Netyap_40 (L2), Nicholasp3_40 (L2), OverPar_41 (L2), Rossetti_40 (L2), Rumpelstiltskin_40 (L2), Sarshaun_40 (L2), SoJulia_41 (L2), Soap141_40 (L2), Tourach_40 (L2), Underpass_40 (L2), Vetrix_40 (L2), Wigglewiggle_40 (L2), Wilder_40 (L2), Winky_40 (L2), Zakai_40 (L2), ZhongYanYuan_39 (L2),

Start 57:

- Found in 25 of 273 (9.2%) of genes in pham
- Manual Annotations of this start: 15 of 240
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Chancellor_47 (K4), Cheetobro_47 (K4), Eponine_49 (K4), Fionnbharth_47 (K4), Juliette_49 (K4), Krueger_49 (K6), Malthus_48 (K4), MissDaisy_45 (K4), Mitti_47 (K4), Reptar3000_45 (K4), Ruthiejr_48 (K4), SamScheppers_46 (K4), Slarp_47 (K4), Wintermute_47 (K4), YasnayaPolyana_47 (K4),

Start 58:

- Found in 1 of 273 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 240
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marshawn_46 (K6),

Start 59:

- Found in 13 of 273 (4.8%) of genes in pham
- Manual Annotations of this start: 8 of 240
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amelie_38 (K1), Biglebops_38 (K1), Dartin_45 (K1), Enkosi_41 (K1), McMater_45 (K1), Mdavu_39 (K1), Nikao_41 (K1), Nutello_38 (K1), Richo_45 (K1), SgtBeansprout_38 (K1), Teejan_41 (K1), Torres_41 (K1), Trice_39 (K1),

Start 60:

- Found in 120 of 273 (44.0%) of genes in pham
- Manual Annotations of this start: 21 of 240
- Called 24.2% of time when present
- Phage (with cluster) where this start called: Bellis_38 (L3), Boilgate_42 (K8), BourbonZero_37 (L3), BrainDrainer_38 (L4), Chaser_37 (L4), Clautastrophe_38 (L3), Douge_37 (L4), Douzhi_37 (L4), DyoEdafos_39 (L4), Jobypre_38 (L3), Jubie_38 (L3), KirDoubleO7_36 (L3), Kropertea_38 (L4), Krypton555_38 (L3), Lebo14_47 (K4), Lolly9_38 (L3), Moostard_38 (L3), MsGreen_38 (L3), Nicholas_38 (L3), OmniCritical_46 (K4), PYPDinur_37 (L4), Quby_38 (L4), Red305_38 (L3), Sheng711_38 (L4), Snenia_38 (L3), Taquito_47 (K4), TriFive_38 (L3), Y10_46 (K4), Y2_46 (K4),

Start 61:

- Found in 99 of 273 (36.3%) of genes in pham
- Manual Annotations of this start: 94 of 240
- Called 99.0% of time when present
- Phage (with cluster) where this start called: ActinUp_43 (K1), Adephegia_43 (K1), Adonis_43 (K1), Ageofdapage_45 (K1), AlishaPH_43 (K1), Anaya_45 (K1), Angelica_43 (K1), Anma_45 (K1), Apocalypse_46 (K1), Asayake_43 (K1), Atiba_43 (K1), BEEST_43 (K1), BGlluviae_43 (K1), BaghaKamala_42 (K1), BarrelRoll_43 (K1), Beezoo_45 (K1), Bella96_44 (K1), Belladonna_43 (K1), Blizzard_43 (K1), Boiiii_43 (K1), BoostSeason_46 (K2), CREW_43 (K1), CallaLilly_43 (K1), Capricorn_43 (K1), CaseJules_44 (K1), CheetoDust_42 (K1), Clipper_46 (K1), CrimD_43 (K1), Curiosium_46 (K1), Dalmuri_43 (K1), DartGoblin_45 (K1), Deby_43 (K1), Devera_47 (K1), DismalFunk_46 (K2), DismalStressor_46 (K2), Dole_46 (K1), DrHayes_44 (K1), Durfee_43 (K1), Efra2_46 (K1), Emerson_44 (K1), Findley_46 (K2), Ganymede_44

(K1), Geraldini_45 (K1), HedwigODU_43 (K1), Homura_43 (K1), Hyperbowlee_43 (K1), Illumine_46 (K1), Inky_43 (K1), JAWS_43 (K1), Jarvi_43 (K1), Jayhawk_44 (K1), Jeckyll_43 (K1), Joy99_43 (K1), LastHope_46 (K1), LaterM_44 (K1), LindNT_43 (K1), Llorens_43 (K1), Lunahalos_43 (K1), Marcoliusprime_46 (K2), MeaningOfLife_44 (K1), Megsy_44 (K1), Milly_46 (K2), Mufasa_46 (K2), Murucutumbu_44 (K1), Mynx_44 (K1), Nergal_40 (AG), Padfoot_43 (K1), Padpat_44 (K1), Peel_43 (K1), Piatt_43 (K1), Pisa1_43 (K1), Pokerus_42 (K1), Prithvi_44 (K1), QuincyRose_42 (K1), Ramen_43 (K1), Rapunzel97_43 (K1), Rosmarinus_43 (K1), SamuelLPlaqson_44 (K1), ShiaSurprise_44 (K1), Slimphazie_43 (K1), Spock_43 (K1), Stinson_44 (K1), Strobilo_46 (K2), Sulley_43 (K1), Tachez_43 (K1), TaiwanKao_45 (K1), TingHuaYa_44 (K1), TiniBug_44 (K1), Topper_43 (K1), TreyKay_44 (K1), TribbleTrouble_43 (K3), TruffulaTree_43 (K1), Twitch_43 (K1), Urkel_44 (K1), Veliki_43 (K1), Yunkel11_46 (K1), Zavala_44 (K1), ZoeJ_45 (K2),

Start 62:

- Found in 7 of 273 (2.6%) of genes in pham
- Manual Annotations of this start: 3 of 240
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Lea83_46 (K3), MacnCheese_47 (K3), Pharb_43 (K3),

Start 63:

- Found in 19 of 273 (7.0%) of genes in pham
- Manual Annotations of this start: 16 of 240
- Called 84.2% of time when present
- Phage (with cluster) where this start called: Amohnition_45 (K6), Applecrisp_42 (K6), DarthP_45 (K6), Ekdilam_42 (K6), Ellie_41 (K6), Fefferhead_43 (K6), Hammy_45 (K6), Lavahound_42 (K6), November_43 (K6), PhelpsODU_45 (K6), Phrank_46 (K6), SirPhilip_45 (K6), Sunflower1121_49 (K6), Tierra_46 (K6), Unicorn_45 (K6), Yuna_49 (K6),

Start 64:

- Found in 15 of 273 (5.5%) of genes in pham
- Manual Annotations of this start: 12 of 240
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Chris_45 (K1), Guanica15_46 (K1), KiSi_47 (K1), LeMond_47 (K1), MarkPhew_46 (K1), Nibb_45 (K1), Oscar_47 (K1), Scarlett_47 (K1), Shadow1_48 (K6), Syra333_48 (K6), Tigress9_48 (K6), Ximenita_49 (K6),

Start 67:

- Found in 31 of 273 (11.4%) of genes in pham
- No Manual Annotations of this start.
- Called 3.2% of time when present
- Phage (with cluster) where this start called: FarmResident_38 (L4),

Start 68:

- Found in 150 of 273 (54.9%) of genes in pham
- Manual Annotations of this start: 4 of 240
- Called 4.0% of time when present
- Phage (with cluster) where this start called: Aminay_46 (K7), Bobquesha_49 (K4), JF1_47 (K4), Kraw_47 (K4), Patt_44 (K4), Qhanda_49 (K4),

Summary by clusters:

There are 12 clusters represented in this pham: AG, L1, L4, K3, K2, K1, L2, K6, K4, K7, K8, L3,

Info for manual annotations of cluster AG:

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

Info for manual annotations of cluster K1:

- Start number 59 was manually annotated 8 times for cluster K1.
- Start number 61 was manually annotated 83 times for cluster K1.
- Start number 64 was manually annotated 8 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 61 was manually annotated 9 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 45 was manually annotated 4 times for cluster K3.
- Start number 61 was manually annotated 1 time for cluster K3.
- Start number 62 was manually annotated 3 times for cluster K3.

Info for manual annotations of cluster K4:

- Start number 57 was manually annotated 14 times for cluster K4.
- Start number 60 was manually annotated 5 times for cluster K4.
- Start number 68 was manually annotated 3 times for cluster K4.

Info for manual annotations of cluster K6:

- Start number 22 was manually annotated 1 time for cluster K6.
- Start number 53 was manually annotated 2 times for cluster K6.
- Start number 54 was manually annotated 1 time for cluster K6.
- Start number 57 was manually annotated 1 time for cluster K6.
- Start number 58 was manually annotated 1 time for cluster K6.
- Start number 63 was manually annotated 16 times for cluster K6.
- Start number 64 was manually annotated 4 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 68 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 60 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster L1:

- Start number 44 was manually annotated 3 times for cluster L1.
- Start number 47 was manually annotated 16 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 56 was manually annotated 30 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 27 was manually annotated 1 time for cluster L3.
- Start number 44 was manually annotated 3 times for cluster L3.
- Start number 47 was manually annotated 3 times for cluster L3.
- Start number 60 was manually annotated 11 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 44 was manually annotated 2 times for cluster L4.
- Start number 60 was manually annotated 4 times for cluster L4.

Gene Information:

Gene: Acquire49_38 Start: 32935, Stop: 32525, Start Num: 47

Candidate Starts for Acquire49_38:

(Start: 44 @32941 has 8 MA's), (Start: 47 @32935 has 19 MA's), (55, 32917), (Start: 56 @32914 has 30 MA's), (Start: 60 @32905 has 21 MA's), (66, 32872), (79, 32806), (82, 32767), (87, 32743), (93, 32698), (95, 32683), (124, 32590),

Gene: ActinUp_43 Start: 34981, Stop: 34601, Start Num: 61

Candidate Starts for ActinUp_43:

(41, 35017), (Start: 61 @34981 has 94 MA's), (Start: 68 @34945 has 4 MA's), (79, 34885), (120, 34675), (132, 34627),

Gene: Adephagia_43 Start: 34978, Stop: 34598, Start Num: 61

Candidate Starts for Adephagia_43:

(41, 35014), (Start: 61 @34978 has 94 MA's), (Start: 68 @34942 has 4 MA's), (79, 34882), (120, 34672), (132, 34624),

Gene: Adonis_43 Start: 35277, Stop: 34897, Start Num: 61

Candidate Starts for Adonis_43:

(38, 35328), (Start: 61 @35277 has 94 MA's), (Start: 68 @35241 has 4 MA's), (78, 35187), (79, 35181), (113, 34986), (120, 34971), (132, 34923),

Gene: Ageofdapage_45 Start: 35950, Stop: 35573, Start Num: 61

Candidate Starts for Ageofdapage_45:

(38, 36001), (Start: 61 @35950 has 94 MA's), (Start: 68 @35914 has 4 MA's), (78, 35860), (79, 35854), (113, 35662), (120, 35647), (132, 35599),

Gene: AlishaPH_43 Start: 35250, Stop: 34873, Start Num: 61

Candidate Starts for AlishaPH_43:

(Start: 61 @35250 has 94 MA's), (Start: 68 @35217 has 4 MA's), (73, 35190), (78, 35163), (79, 35157), (120, 34947), (132, 34899),

Gene: Amelie_38 Start: 34527, Stop: 34129, Start Num: 59

Candidate Starts for Amelie_38:

(40, 34566), (Start: 59 @34527 has 8 MA's), (79, 34431), (120, 34206), (122, 34200),

Gene: Amgine_43 Start: 36096, Stop: 35581, Start Num: 22

Candidate Starts for Amgine_43:

(Start: 22 @36096 has 1 MA's), (24, 36090), (Start: 63 @35973 has 16 MA's), (Start: 68 @35943 has 4 MA's), (73, 35916), (79, 35883), (80, 35862), (81, 35856), (87, 35820), (90, 35802), (96, 35745), (117, 35673), (133, 35607), (137, 35586),

Gene: Aminay_46 Start: 36466, Stop: 36146, Start Num: 68

Candidate Starts for Aminay_46:

(Start: 60 @36508 has 21 MA's), (65, 36478), (Start: 68 @36466 has 4 MA's), (69, 36463), (79, 36406), (89, 36328), (93, 36298), (95, 36283), (113, 36214),

Gene: Amohnition_45 Start: 36010, Stop: 35639, Start Num: 63

Candidate Starts for Amohnition_45:

(Start: 63 @36010 has 16 MA's), (Start: 68 @35980 has 4 MA's), (79, 35920), (83, 35878), (87, 35857), (90, 35839), (93, 35812), (95, 35797), (96, 35782), (99, 35761), (104, 35740), (129, 35680), (133, 35665),

Gene: Anaya_45 Start: 35589, Stop: 35209, Start Num: 61

Candidate Starts for Anaya_45:

(38, 35640), (Start: 61 @35589 has 94 MA's), (Start: 68 @35553 has 4 MA's), (79, 35493), (113, 35298), (120, 35283), (132, 35235),

Gene: Angelica_43 Start: 35209, Stop: 34829, Start Num: 61

Candidate Starts for Angelica_43:

(38, 35260), (Start: 61 @35209 has 94 MA's), (Start: 68 @35173 has 4 MA's), (79, 35113), (113, 34918), (120, 34903), (132, 34855),

Gene: Anma_45 Start: 35877, Stop: 35500, Start Num: 61

Candidate Starts for Anma_45:

(38, 35928), (Start: 61 @35877 has 94 MA's), (Start: 68 @35841 has 4 MA's), (79, 35781), (120, 35574), (132, 35526),

Gene: Apocalypse_46 Start: 35992, Stop: 35615, Start Num: 61

Candidate Starts for Apocalypse_46:

(Start: 61 @35992 has 94 MA's), (73, 35932), (78, 35905), (79, 35899), (81, 35872), (120, 35689), (132, 35641),

Gene: Applecrisp_42 Start: 35470, Stop: 35078, Start Num: 63

Candidate Starts for Applecrisp_42:

(Start: 63 @35470 has 16 MA's), (Start: 68 @35440 has 4 MA's), (73, 35413), (79, 35380), (80, 35359), (81, 35353), (87, 35317), (90, 35299), (96, 35242), (117, 35170), (133, 35104), (137, 35083),

Gene: Appletree2_37 Start: 32877, Stop: 32467, Start Num: 47

Candidate Starts for Appletree2_37:

(Start: 44 @32883 has 8 MA's), (Start: 47 @32877 has 19 MA's), (Start: 56 @32856 has 30 MA's), (Start: 60 @32847 has 21 MA's), (66, 32814), (79, 32748), (82, 32709), (87, 32685), (93, 32640), (124, 32532),

Gene: Archie_40 Start: 34485, Stop: 34096, Start Num: 56

Candidate Starts for Archie_40:

(Start: 47 @34506 has 19 MA's), (Start: 56 @34485 has 30 MA's), (Start: 60 @34476 has 21 MA's), (Start: 68 @34440 has 4 MA's), (69, 34437), (74, 34407), (82, 34341), (87, 34317), (93, 34272), (112, 34185), (118, 34173), (121, 34161),

Gene: Asayake_43 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for Asayake_43:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: Atiba_43 Start: 34941, Stop: 34561, Start Num: 61

Candidate Starts for Atiba_43:

(41, 34977), (Start: 61 @34941 has 94 MA's), (Start: 68 @34905 has 4 MA's), (79, 34845), (120, 34635), (132, 34587),

Gene: AvadaKedavra_38 Start: 32944, Stop: 32534, Start Num: 47

Candidate Starts for AvadaKedavra_38:

(Start: 44 @32950 has 8 MA's), (Start: 47 @32944 has 19 MA's), (55, 32926), (Start: 56 @32923 has 30 MA's), (Start: 60 @32914 has 21 MA's), (66, 32881), (79, 32815), (82, 32776), (87, 32752), (93, 32707), (95, 32692), (124, 32599),

Gene: BEEST_43 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for BEEST_43:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: BGlluviae_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for BGlluviae_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: BaghaKamala_42 Start: 34415, Stop: 34038, Start Num: 61

Candidate Starts for BaghaKamala_42:

(Start: 61 @34415 has 94 MA's), (Start: 68 @34382 has 4 MA's), (73, 34355), (78, 34328), (79, 34322), (120, 34112), (132, 34064),

Gene: Baoshan_39 Start: 34142, Stop: 33753, Start Num: 56

Candidate Starts for Baoshan_39:

(Start: 56 @34142 has 30 MA's), (Start: 60 @34133 has 21 MA's), (69, 34094), (74, 34064), (82, 33998), (87, 33974), (93, 33929), (104, 33857), (112, 33842), (118, 33830), (121, 33818),

Gene: BarrelRoll_43 Start: 34964, Stop: 34584, Start Num: 61

Candidate Starts for BarrelRoll_43:

(41, 35000), (Start: 61 @34964 has 94 MA's), (Start: 68 @34928 has 4 MA's), (79, 34868), (120, 34658), (132, 34610),

Gene: Bazzle_40 Start: 34517, Stop: 34128, Start Num: 56

Candidate Starts for Bazzle_40:

(Start: 47 @34538 has 19 MA's), (Start: 56 @34517 has 30 MA's), (Start: 60 @34508 has 21 MA's), (Start: 68 @34472 has 4 MA's), (69, 34469), (74, 34439), (82, 34373), (87, 34349), (93, 34304), (112, 34217), (118, 34205), (121, 34193),

Gene: Beezoo_45 Start: 35940, Stop: 35563, Start Num: 61

Candidate Starts for Beezoo_45:

(38, 35991), (Start: 61 @35940 has 94 MA's), (Start: 68 @35904 has 4 MA's), (79, 35844), (120, 35637), (132, 35589),

Gene: Bella96_44 Start: 35832, Stop: 35455, Start Num: 61

Candidate Starts for Bella96_44:

(38, 35883), (Start: 61 @35832 has 94 MA's), (Start: 68 @35796 has 4 MA's), (79, 35736), (120, 35529), (132, 35481),

Gene: Belladonna_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Belladonna_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: Bellis_38 Start: 34518, Stop: 34135, Start Num: 60

Candidate Starts for Bellis_38:

(3, 34737), (5, 34731), (9, 34710), (10, 34689), (Start: 44 @34554 has 8 MA's), (Start: 47 @34548 has 19 MA's), (Start: 60 @34518 has 21 MA's), (67, 34482), (69, 34476), (73, 34452), (74, 34446), (79, 34419), (82, 34380), (85, 34368), (87, 34356), (91, 34323), (93, 34311), (101, 34254), (121, 34203), (137, 34140),

Gene: BigCheese_40 Start: 34280, Stop: 33891, Start Num: 56

Candidate Starts for BigCheese_40:

(Start: 56 @34280 has 30 MA's), (Start: 60 @34271 has 21 MA's), (69, 34232), (73, 34208), (74, 34202), (79, 34175), (82, 34136), (87, 34112), (93, 34067), (112, 33980), (121, 33956),

Gene: Biglebops_38 Start: 34527, Stop: 34129, Start Num: 59

Candidate Starts for Biglebops_38:

(40, 34566), (Start: 59 @34527 has 8 MA's), (79, 34431), (120, 34206), (122, 34200),

Gene: Blizzard_43 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for Blizzard_43:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: Bobquesha_49 Start: 35368, Stop: 35057, Start Num: 68

Candidate Starts for Bobquesha_49:

(33, 35482), (46, 35437), (Start: 57 @35413 has 15 MA's), (Start: 60 @35407 has 21 MA's), (Start: 68 @35368 has 4 MA's), (77, 35317), (90, 35227), (92, 35206), (94, 35188),

Gene: BobsGarage_40 Start: 34280, Stop: 33891, Start Num: 56

Candidate Starts for BobsGarage_40:

(Start: 56 @34280 has 30 MA's), (Start: 60 @34271 has 21 MA's), (69, 34232), (73, 34208), (74, 34202), (79, 34175), (82, 34136), (87, 34112), (93, 34067), (112, 33980), (121, 33956),

Gene: Boiiii_43 Start: 35295, Stop: 34915, Start Num: 61

Candidate Starts for Boiiii_43:

(41, 35331), (Start: 61 @35295 has 94 MA's), (Start: 68 @35259 has 4 MA's), (79, 35199), (99, 35040), (120, 34989), (132, 34941),

Gene: Boilgate_42 Start: 36179, Stop: 35817, Start Num: 60

Candidate Starts for Boilgate_42:

(18, 36305), (21, 36296), (30, 36266), (31, 36263), (33, 36254), (39, 36230), (43, 36215), (46, 36209), (52, 36197), (Start: 60 @36179 has 21 MA's), (Start: 68 @36140 has 4 MA's), (92, 35978),

Gene: BoostSeason_46 Start: 36618, Stop: 36250, Start Num: 61

Candidate Starts for BoostSeason_46:

(Start: 61 @36618 has 94 MA's), (Start: 68 @36582 has 4 MA's), (79, 36522), (86, 36462), (94, 36402), (97, 36372), (100, 36360), (111, 36330), (131, 36276),

Gene: BourbonZero_37 Start: 34497, Stop: 34114, Start Num: 60

Candidate Starts for BourbonZero_37:

(3, 34716), (5, 34710), (9, 34689), (10, 34668), (Start: 44 @34533 has 8 MA's), (Start: 47 @34527 has 19 MA's), (Start: 60 @34497 has 21 MA's), (67, 34461), (69, 34455), (74, 34425), (79, 34398), (82,

34359), (85, 34347), (87, 34335), (91, 34302), (93, 34290), (121, 34182), (137, 34119),

Gene: BrainDrainer_38 Start: 33181, Stop: 32801, Start Num: 60

Candidate Starts for BrainDrainer_38:

(Start: 44 @33217 has 8 MA's), (Start: 60 @33181 has 21 MA's), (67, 33148), (73, 33118), (74, 33112), (79, 33085), (82, 33046), (88, 33016), (93, 32977), (110, 32899), (121, 32872), (123, 32866),

Gene: Breezona_40 Start: 34280, Stop: 33891, Start Num: 56

Candidate Starts for Breezona_40:

(Start: 56 @34280 has 30 MA's), (Start: 60 @34271 has 21 MA's), (69, 34232), (73, 34208), (74, 34202), (79, 34175), (82, 34136), (87, 34112), (93, 34067), (112, 33980), (121, 33956),

Gene: Bromden_39 Start: 33770, Stop: 33351, Start Num: 44

Candidate Starts for Bromden_39:

(3, 33953), (5, 33947), (15, 33869), (Start: 44 @33770 has 8 MA's), (Start: 60 @33734 has 21 MA's), (69, 33698), (71, 33689), (74, 33668), (75, 33659), (79, 33641), (87, 33578), (88, 33572), (91, 33545), (93, 33533), (96, 33503), (112, 33449), (121, 33425), (123, 33419),

Gene: Bryler_46 Start: 34876, Stop: 34463, Start Num: 53

Candidate Starts for Bryler_46:

(38, 34921), (Start: 53 @34876 has 2 MA's), (Start: 63 @34855 has 16 MA's), (Start: 68 @34825 has 4 MA's), (87, 34702), (95, 34642), (96, 34627), (124, 34528), (126, 34519), (133, 34489),

Gene: CREW_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for CREW_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: Cain_46 Start: 34864, Stop: 34451, Start Num: 53

Candidate Starts for Cain_46:

(38, 34909), (Start: 53 @34864 has 2 MA's), (Start: 63 @34843 has 16 MA's), (Start: 68 @34813 has 4 MA's), (87, 34690), (95, 34630), (96, 34615), (124, 34516), (126, 34507), (133, 34477),

Gene: CallaLilly_43 Start: 35019, Stop: 34639, Start Num: 61

Candidate Starts for CallaLilly_43:

(41, 35055), (Start: 61 @35019 has 94 MA's), (Start: 68 @34983 has 4 MA's), (79, 34923), (99, 34764), (120, 34713), (132, 34665),

Gene: Calm_38 Start: 32950, Stop: 32540, Start Num: 47

Candidate Starts for Calm_38:

(Start: 44 @32956 has 8 MA's), (Start: 47 @32950 has 19 MA's), (55, 32932), (Start: 56 @32929 has 30 MA's), (Start: 60 @32920 has 21 MA's), (66, 32887), (79, 32821), (82, 32782), (87, 32758), (93, 32713), (95, 32698), (124, 32605),

Gene: Capricorn_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Capricorn_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: CaseJules_44 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for CaseJules_44:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: Chancellor_47 Start: 36038, Stop: 35679, Start Num: 57

Candidate Starts for Chancellor_47:

(33, 36107), (46, 36062), (Start: 57 @36038 has 15 MA's), (Start: 60 @36032 has 21 MA's), (Start: 68 @35993 has 4 MA's), (77, 35942), (86, 35873), (90, 35852), (92, 35831), (94, 35813), (125, 35711),

Gene: Chaser_37 Start: 32998, Stop: 32618, Start Num: 60

Candidate Starts for Chaser_37:

(Start: 44 @33034 has 8 MA's), (Start: 60 @32998 has 21 MA's), (67, 32965), (73, 32935), (74, 32929), (79, 32902), (82, 32863), (88, 32833), (93, 32794), (121, 32689), (123, 32683),

Gene: CheetoDust_42 Start: 34466, Stop: 34089, Start Num: 61

Candidate Starts for CheetoDust_42:

(49, 34490), (Start: 61 @34466 has 94 MA's), (Start: 68 @34430 has 4 MA's), (72, 34415), (79, 34370), (120, 34163), (132, 34115),

Gene: Cheetobro_47 Start: 36035, Stop: 35676, Start Num: 57

Candidate Starts for Cheetobro_47:

(33, 36104), (46, 36059), (Start: 57 @36035 has 15 MA's), (Start: 60 @36029 has 21 MA's), (Start: 68 @35990 has 4 MA's), (77, 35939), (86, 35870), (90, 35849), (92, 35828), (94, 35810), (125, 35708),

Gene: Chris_45 Start: 35677, Stop: 35300, Start Num: 64

Candidate Starts for Chris_45:

(25, 35785), (Start: 64 @35677 has 12 MA's), (Start: 68 @35647 has 4 MA's), (72, 35632), (79, 35587), (80, 35566), (87, 35524), (96, 35449), (121, 35374), (129, 35341), (133, 35326),

Gene: ChutneyChips_38 Start: 33214, Stop: 32798, Start Num: 44

Candidate Starts for ChutneyChips_38:

(Start: 44 @33214 has 8 MA's), (Start: 60 @33178 has 21 MA's), (67, 33145), (74, 33109), (79, 33082), (82, 33043), (88, 33013), (93, 32974), (121, 32869), (123, 32863),

Gene: CicholasNage_38 Start: 32971, Stop: 32561, Start Num: 47

Candidate Starts for CicholasNage_38:

(Start: 44 @32977 has 8 MA's), (Start: 47 @32971 has 19 MA's), (55, 32953), (Start: 56 @32950 has 30 MA's), (Start: 60 @32941 has 21 MA's), (66, 32908), (79, 32842), (82, 32803), (87, 32779), (93, 32734), (95, 32719), (124, 32626),

Gene: Claus_40 Start: 34300, Stop: 33911, Start Num: 56

Candidate Starts for Claus_40:

(Start: 56 @34300 has 30 MA's), (Start: 60 @34291 has 21 MA's), (69, 34252), (74, 34222), (82, 34156), (87, 34132), (93, 34087), (104, 34015), (112, 34000), (118, 33988), (121, 33976),

Gene: Clautastrophe_38 Start: 34516, Stop: 34133, Start Num: 60

Candidate Starts for Clautastrophe_38:

(3, 34735), (5, 34729), (9, 34708), (10, 34687), (Start: 44 @34552 has 8 MA's), (Start: 47 @34546 has 19 MA's), (Start: 60 @34516 has 21 MA's), (67, 34480), (69, 34474), (73, 34450), (74, 34444), (79, 34417), (82, 34378), (85, 34366), (87, 34354), (91, 34321), (93, 34309), (101, 34252), (121, 34201), (137, 34138),

Gene: Clipper_46 Start: 35611, Stop: 35234, Start Num: 61

Candidate Starts for Clipper_46:

(Start: 61 @35611 has 94 MA's), (Start: 68 @35578 has 4 MA's), (73, 35551), (78, 35524), (79, 35518), (120, 35308), (132, 35260),

Gene: CrimD_43 Start: 35221, Stop: 34844, Start Num: 61

Candidate Starts for CrimD_43:

(38, 35272), (Start: 61 @35221 has 94 MA's), (Start: 68 @35185 has 4 MA's), (72, 35170), (79, 35125), (120, 34918), (132, 34870),

Gene: Crossroads_40 Start: 34282, Stop: 33893, Start Num: 56

Candidate Starts for Crossroads_40:

(Start: 56 @34282 has 30 MA's), (Start: 60 @34273 has 21 MA's), (69, 34234), (73, 34210), (74, 34204), (82, 34138), (87, 34114), (93, 34069), (109, 33988), (112, 33982), (118, 33970), (121, 33958),

Gene: Curiosium_46 Start: 34128, Stop: 33742, Start Num: 61

Candidate Starts for Curiosium_46:

(16, 34254), (19, 34245), (29, 34209), (32, 34203), (35, 34188), (Start: 61 @34128 has 94 MA's), (79, 34035), (81, 34008), (120, 33837), (136, 33768),

Gene: DHan_41 Start: 34241, Stop: 33852, Start Num: 56

Candidate Starts for DHan_41:

(Start: 56 @34241 has 30 MA's), (Start: 60 @34232 has 21 MA's), (69, 34193), (74, 34163), (82, 34097), (87, 34073), (93, 34028), (104, 33956), (112, 33941), (118, 33929), (121, 33917),

Gene: Dalmuri_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Dalmuri_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: DanBing_40 Start: 34133, Stop: 33744, Start Num: 56

Candidate Starts for DanBing_40:

(Start: 56 @34133 has 30 MA's), (Start: 60 @34124 has 21 MA's), (69, 34085), (74, 34055), (82, 33989), (87, 33965), (93, 33920), (104, 33848), (112, 33833), (118, 33821), (121, 33809),

Gene: DartGoblin_45 Start: 35826, Stop: 35449, Start Num: 61

Candidate Starts for DartGoblin_45:

(38, 35877), (Start: 61 @35826 has 94 MA's), (Start: 68 @35790 has 4 MA's), (79, 35730), (120, 35523), (132, 35475),

Gene: DarthP_45 Start: 35904, Stop: 35545, Start Num: 63

Candidate Starts for DarthP_45:

(Start: 63 @35904 has 16 MA's), (Start: 68 @35874 has 4 MA's), (79, 35814), (83, 35772),

Gene: Dartin_45 Start: 35648, Stop: 35256, Start Num: 59

Candidate Starts for Dartin_45:

(Start: 59 @35648 has 8 MA's), (76, 35564), (79, 35549), (96, 35411), (100, 35387), (122, 35324), (128, 35300), (135, 35267),

Gene: Deby_43 Start: 35225, Stop: 34845, Start Num: 61

Candidate Starts for Deby_43:

(38, 35276), (Start: 61 @35225 has 94 MA's), (Start: 68 @35189 has 4 MA's), (79, 35129), (113, 34934), (120, 34919), (132, 34871),

Gene: Devera_47 Start: 35759, Stop: 35382, Start Num: 61

Candidate Starts for Devera_47:

(Start: 61 @35759 has 94 MA's), (Start: 68 @35723 has 4 MA's), (79, 35663), (99, 35504), (120, 35456), (132, 35408),

Gene: DirkDirk_37 Start: 32937, Stop: 32527, Start Num: 47

Candidate Starts for DirkDirk_37:

(Start: 44 @32943 has 8 MA's), (Start: 47 @32937 has 19 MA's), (Start: 56 @32916 has 30 MA's), (Start: 60 @32907 has 21 MA's), (66, 32874), (79, 32808), (82, 32769), (87, 32745), (93, 32700), (124, 32592),

Gene: DismalFunk_46 Start: 37051, Stop: 36680, Start Num: 61

Candidate Starts for DismalFunk_46:

(38, 37105), (Start: 61 @37051 has 94 MA's), (Start: 68 @37015 has 4 MA's), (72, 37000), (79, 36955), (86, 36895), (94, 36835), (97, 36805), (100, 36793), (111, 36763), (131, 36706),

Gene: DismalStressor_46 Start: 37051, Stop: 36680, Start Num: 61

Candidate Starts for DismalStressor_46:

(38, 37105), (Start: 61 @37051 has 94 MA's), (Start: 68 @37015 has 4 MA's), (72, 37000), (79, 36955), (86, 36895), (94, 36835), (97, 36805), (100, 36793), (111, 36763), (131, 36706),

Gene: Dole_46 Start: 35761, Stop: 35384, Start Num: 61

Candidate Starts for Dole_46:

(Start: 61 @35761 has 94 MA's), (Start: 68 @35725 has 4 MA's), (79, 35665), (99, 35506), (120, 35458), (132, 35410),

Gene: Douge_37 Start: 32936, Stop: 32556, Start Num: 60

Candidate Starts for Douge_37:

(Start: 44 @32972 has 8 MA's), (Start: 60 @32936 has 21 MA's), (67, 32903), (73, 32873), (74, 32867), (79, 32840), (82, 32801), (88, 32771), (93, 32732), (121, 32627), (123, 32621),

Gene: Douzhi_37 Start: 33042, Stop: 32662, Start Num: 60

Candidate Starts for Douzhi_37:

(Start: 44 @33078 has 8 MA's), (Start: 60 @33042 has 21 MA's), (67, 33009), (73, 32979), (74, 32973), (79, 32946), (82, 32907), (88, 32877), (93, 32838), (110, 32760), (121, 32733), (123, 32727),

Gene: DrHayes_44 Start: 35877, Stop: 35500, Start Num: 61

Candidate Starts for DrHayes_44:

(38, 35928), (Start: 61 @35877 has 94 MA's), (Start: 68 @35841 has 4 MA's), (79, 35781), (120, 35574), (132, 35526),

Gene: DrSeegs_40 Start: 34280, Stop: 33891, Start Num: 56

Candidate Starts for DrSeegs_40:

(Start: 56 @34280 has 30 MA's), (Start: 60 @34271 has 21 MA's), (69, 34232), (73, 34208), (74, 34202), (79, 34175), (82, 34136), (87, 34112), (93, 34067), (112, 33980), (121, 33956),

Gene: DuncansLeg_38 Start: 34570, Stop: 34151, Start Num: 44

Candidate Starts for DuncansLeg_38:

(3, 34753), (5, 34747), (9, 34726), (10, 34705), (Start: 44 @34570 has 8 MA's), (Start: 47 @34564 has 19 MA's), (Start: 60 @34534 has 21 MA's), (67, 34498), (69, 34492), (74, 34462), (79, 34435), (82, 34396), (85, 34384), (87, 34372), (91, 34339), (93, 34327), (101, 34270), (121, 34219), (137, 34156),

Gene: Durfee_43 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for Durfee_43:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: DyoEdafos_39 Start: 33270, Stop: 32890, Start Num: 60

Candidate Starts for DyoEdafos_39:

(Start: 44 @33306 has 8 MA's), (Start: 60 @33270 has 21 MA's), (67, 33237), (74, 33201), (79, 33174), (82, 33135), (87, 33111), (121, 32961), (123, 32955), (127, 32931),

Gene: Efra2_46 Start: 35018, Stop: 34629, Start Num: 61

Candidate Starts for Efra2_46:

(17, 35156), (18, 35150), (20, 35147), (23, 35138), (26, 35123), (Start: 61 @35018 has 94 MA's), (Start: 64 @35012 has 12 MA's), (79, 34922), (87, 34859), (92, 34820), (96, 34784), (115, 34724), (117, 34718), (138, 34634),

Gene: Ekdilam_42 Start: 35465, Stop: 35106, Start Num: 63

Candidate Starts for Ekdilam_42:

(29, 35549), (Start: 63 @35465 has 16 MA's), (Start: 68 @35435 has 4 MA's), (71, 35423), (79, 35375), (87, 35312), (129, 35147), (133, 35132),

Gene: Ellie_41 Start: 35161, Stop: 34769, Start Num: 63

Candidate Starts for Ellie_41:

(24, 35278), (Start: 63 @35161 has 16 MA's), (Start: 68 @35131 has 4 MA's), (79, 35071), (80, 35050), (81, 35044), (87, 35008), (90, 34990), (96, 34933), (117, 34861), (133, 34795), (137, 34774),

Gene: Ellson_38 Start: 34546, Stop: 34127, Start Num: 44

Candidate Starts for Ellson_38:

(3, 34729), (5, 34723), (9, 34702), (10, 34681), (Start: 44 @34546 has 8 MA's), (Start: 47 @34540 has 19 MA's), (Start: 60 @34510 has 21 MA's), (67, 34474), (69, 34468), (74, 34438), (79, 34411), (82, 34372), (85, 34360), (87, 34348), (91, 34315), (93, 34303), (121, 34195), (137, 34132),

Gene: Emerson_44 Start: 34972, Stop: 34592, Start Num: 61

Candidate Starts for Emerson_44:

(41, 35008), (Start: 61 @34972 has 94 MA's), (Start: 68 @34936 has 4 MA's), (79, 34876), (120, 34666), (132, 34618),

Gene: Enceladus_37 Start: 32920, Stop: 32510, Start Num: 47

Candidate Starts for Enceladus_37:

(Start: 44 @32926 has 8 MA's), (Start: 47 @32920 has 19 MA's), (Start: 56 @32899 has 30 MA's), (Start: 60 @32890 has 21 MA's), (66, 32857), (79, 32791), (82, 32752), (87, 32728), (93, 32683), (124, 32575),

Gene: Enkosi_41 Start: 37140, Stop: 36742, Start Num: 59

Candidate Starts for Enkosi_41:

(40, 37179), (Start: 59 @37140 has 8 MA's), (79, 37044), (120, 36819), (122, 36813),

Gene: Eponine_49 Start: 36791, Stop: 36432, Start Num: 57

Candidate Starts for Eponine_49:

(33, 36860), (46, 36815), (Start: 57 @36791 has 15 MA's), (Start: 60 @36785 has 21 MA's), (Start: 68 @36746 has 4 MA's), (77, 36695), (86, 36626), (90, 36605), (92, 36584), (94, 36566), (125, 36464),

Gene: Faith1_40 Start: 34280, Stop: 33891, Start Num: 56

Candidate Starts for Faith1_40:

(Start: 56 @34280 has 30 MA's), (Start: 60 @34271 has 21 MA's), (69, 34232), (73, 34208), (74, 34202), (79, 34175), (82, 34136), (87, 34112), (93, 34067), (112, 33980), (121, 33956),

Gene: FarmResident_38 Start: 32947, Stop: 32600, Start Num: 67

Candidate Starts for FarmResident_38:

(Start: 44 @33016 has 8 MA's), (Start: 60 @32980 has 21 MA's), (67, 32947), (73, 32917), (74, 32911), (79, 32884), (82, 32845), (88, 32815), (121, 32671), (123, 32665),

Gene: Fefferhead_43 Start: 35112, Stop: 34720, Start Num: 63

Candidate Starts for Fefferhead_43:

(24, 35229), (Start: 63 @35112 has 16 MA's), (Start: 68 @35082 has 4 MA's), (79, 35022), (80, 35001), (81, 34995), (87, 34959), (90, 34941), (96, 34884), (117, 34812), (133, 34746), (137, 34725),

Gene: Findley_46 Start: 37044, Stop: 36673, Start Num: 61

Candidate Starts for Findley_46:

(38, 37098), (Start: 61 @37044 has 94 MA's), (Start: 68 @37008 has 4 MA's), (72, 36993), (79, 36948), (86, 36888), (94, 36828), (97, 36798), (100, 36786), (111, 36756), (131, 36699),

Gene: Finemlucis_40 Start: 34556, Stop: 34167, Start Num: 56

Candidate Starts for Finemlucis_40:

(Start: 56 @34556 has 30 MA's), (Start: 60 @34547 has 21 MA's), (69, 34508), (73, 34484), (74, 34478), (79, 34451), (82, 34412), (87, 34388), (93, 34343), (112, 34256), (118, 34244), (121, 34232),

Gene: Finnry_38 Start: 34555, Stop: 34136, Start Num: 44

Candidate Starts for Finnry_38:

(3, 34738), (5, 34732), (9, 34711), (10, 34690), (Start: 44 @34555 has 8 MA's), (Start: 47 @34549 has 19 MA's), (Start: 60 @34519 has 21 MA's), (67, 34483), (69, 34477), (73, 34453), (74, 34447), (79, 34420), (82, 34381), (85, 34369), (87, 34357), (91, 34324), (93, 34312), (101, 34255), (121, 34204), (137, 34141),

Gene: Fionnbharth_47 Start: 36189, Stop: 35830, Start Num: 57

Candidate Starts for Fionnbharth_47:

(14, 36321), (33, 36258), (34, 36255), (46, 36213), (Start: 57 @36189 has 15 MA's), (Start: 60 @36183 has 21 MA's), (Start: 68 @36144 has 4 MA's), (77, 36093), (86, 36024), (90, 36003), (92, 35982), (94, 35964), (125, 35862),

Gene: Gabriela_40 Start: 34542, Stop: 34153, Start Num: 56

Candidate Starts for Gabriela_40:

(Start: 56 @34542 has 30 MA's), (Start: 60 @34533 has 21 MA's), (69, 34494), (73, 34470), (74, 34464), (79, 34437), (82, 34398), (87, 34374), (93, 34329), (112, 34242), (121, 34218),

Gene: Ganymede_44 Start: 35413, Stop: 35036, Start Num: 61

Candidate Starts for Ganymede_44:

(38, 35464), (Start: 61 @35413 has 94 MA's), (Start: 68 @35377 has 4 MA's), (79, 35317), (99, 35158), (120, 35110), (132, 35062),

Gene: Gardann_40 Start: 34281, Stop: 33892, Start Num: 56

Candidate Starts for Gardann_40:

(Start: 56 @34281 has 30 MA's), (Start: 60 @34272 has 21 MA's), (69, 34233), (73, 34209), (74, 34203), (79, 34176), (82, 34137), (87, 34113), (93, 34068), (112, 33981), (118, 33969), (121, 33957),

Gene: Geraldini_45 Start: 36027, Stop: 35650, Start Num: 61

Candidate Starts for Geraldini_45:

(Start: 61 @36027 has 94 MA's), (Start: 68 @35994 has 4 MA's), (73, 35967), (78, 35940), (79, 35934), (120, 35724), (132, 35676),

Gene: Guanica15_46 Start: 34969, Stop: 34586, Start Num: 64

Candidate Starts for Guanica15_46:

(17, 35113), (18, 35107), (20, 35104), (23, 35095), (26, 35080), (Start: 61 @34975 has 94 MA's), (Start: 64 @34969 has 12 MA's), (79, 34879), (87, 34816), (92, 34777), (96, 34741), (115, 34681), (117, 34675), (138, 34591),

Gene: GuuelaD_40 Start: 34319, Stop: 33930, Start Num: 56

Candidate Starts for GuuelaD_40:

(Start: 56 @34319 has 30 MA's), (Start: 60 @34310 has 21 MA's), (69, 34271), (73, 34247), (74, 34241), (82, 34175), (87, 34151), (93, 34106), (109, 34025), (112, 34019), (118, 34007), (121, 33995),

Gene: Hafay_40 Start: 34314, Stop: 33925, Start Num: 56

Candidate Starts for Hafay_40:

(Start: 56 @34314 has 30 MA's), (Start: 60 @34305 has 21 MA's), (69, 34266), (73, 34242), (74, 34236), (82, 34170), (87, 34146), (93, 34101), (109, 34020), (112, 34014), (118, 34002), (121, 33990),

Gene: Halena_37 Start: 32946, Stop: 32536, Start Num: 47

Candidate Starts for Halena_37:

(Start: 44 @32952 has 8 MA's), (Start: 47 @32946 has 19 MA's), (55, 32928), (Start: 56 @32925 has 30 MA's), (Start: 60 @32916 has 21 MA's), (66, 32883), (79, 32817), (82, 32778), (87, 32754), (93, 32709), (95, 32694), (124, 32601),

Gene: Hammy_45 Start: 35892, Stop: 35533, Start Num: 63

Candidate Starts for Hammy_45:

(Start: 63 @35892 has 16 MA's), (79, 35802), (83, 35760),

Gene: HedwigODU_43 Start: 34981, Stop: 34601, Start Num: 61

Candidate Starts for HedwigODU_43:

(41, 35017), (Start: 61 @34981 has 94 MA's), (Start: 68 @34945 has 4 MA's), (79, 34885), (120, 34675), (132, 34627),

Gene: Homura_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Homura_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: Hyperbowlee_43 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for Hyperbowlee_43:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: Illumine_46 Start: 35761, Stop: 35384, Start Num: 61

Candidate Starts for Illumine_46:

(Start: 61 @35761 has 94 MA's), (Start: 68 @35725 has 4 MA's), (79, 35665), (99, 35506), (120, 35458), (132, 35410),

Gene: Inky_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Inky_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: JAWS_43 Start: 34970, Stop: 34590, Start Num: 61

Candidate Starts for JAWS_43:

(41, 35006), (Start: 61 @34970 has 94 MA's), (Start: 68 @34934 has 4 MA's), (79, 34874), (99, 34715), (120, 34664), (132, 34616),

Gene: JF1_47 Start: 36061, Stop: 35747, Start Num: 68

Candidate Starts for JF1_47:

(Start: 68 @36061 has 4 MA's), (77, 36010), (86, 35941), (90, 35920), (92, 35899), (94, 35881), (125, 35779),

Gene: Jarvi_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Jarvi_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: Jayhawk_44 Start: 34979, Stop: 34599, Start Num: 61

Candidate Starts for Jayhawk_44:

(41, 35015), (Start: 61 @34979 has 94 MA's), (Start: 68 @34943 has 4 MA's), (79, 34883), (120, 34673), (132, 34625),

Gene: Jeckyll_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Jeckyll_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: Jobypre_38 Start: 34516, Stop: 34133, Start Num: 60

Candidate Starts for Jobypre_38:

(3, 34735), (5, 34729), (9, 34708), (10, 34687), (Start: 44 @34552 has 8 MA's), (Start: 47 @34546 has 19 MA's), (Start: 60 @34516 has 21 MA's), (67, 34480), (69, 34474), (73, 34450), (74, 34444), (79, 34417), (82, 34378), (85, 34366), (87, 34354), (91, 34321), (93, 34309), (101, 34252), (121, 34201), (137, 34138),

Gene: JoeDirt_37 Start: 32924, Stop: 32508, Start Num: 44

Candidate Starts for JoeDirt_37:

(Start: 44 @32924 has 8 MA's), (Start: 47 @32918 has 19 MA's), (Start: 56 @32897 has 30 MA's), (Start: 60 @32888 has 21 MA's), (66, 32855), (79, 32789), (82, 32750), (87, 32726), (93, 32681), (124, 32573),

Gene: Joy99_43 Start: 35025, Stop: 34645, Start Num: 61

Candidate Starts for Joy99_43:

(41, 35061), (Start: 61 @35025 has 94 MA's), (Start: 68 @34989 has 4 MA's), (79, 34929), (99, 34770), (120, 34719), (132, 34671),

Gene: Jubie_38 Start: 34517, Stop: 34134, Start Num: 60

Candidate Starts for Jubie_38:

(3, 34736), (5, 34730), (9, 34709), (10, 34688), (Start: 44 @34553 has 8 MA's), (Start: 47 @34547 has 19 MA's), (Start: 60 @34517 has 21 MA's), (67, 34481), (69, 34475), (73, 34451), (74, 34445), (79, 34418), (82, 34379), (85, 34367), (87, 34355), (91, 34322), (93, 34310), (101, 34253), (121, 34202), (137, 34139),

Gene: Juliette_49 Start: 36262, Stop: 35903, Start Num: 57

Candidate Starts for Juliette_49:

(33, 36331), (46, 36286), (Start: 57 @36262 has 15 MA's), (Start: 60 @36256 has 21 MA's), (Start: 68 @36217 has 4 MA's), (77, 36166), (86, 36097), (90, 36076), (92, 36055), (94, 36037), (125, 35935),

Gene: Kahlid_40 Start: 34286, Stop: 33897, Start Num: 56

Candidate Starts for Kahlid_40:

(Start: 56 @34286 has 30 MA's), (Start: 60 @34277 has 21 MA's), (69, 34238), (73, 34214), (74, 34208), (82, 34142), (87, 34118), (93, 34073), (109, 33992), (112, 33986), (118, 33974), (121, 33962),

Gene: Keshu_47 Start: 35704, Stop: 35282, Start Num: 45

Candidate Starts for Keshu_47:

(Start: 45 @35704 has 4 MA's), (Start: 62 @35671 has 3 MA's), (87, 35515), (94, 35458), (133, 35308),

Gene: KiSi_47 Start: 36100, Stop: 35729, Start Num: 64

Candidate Starts for KiSi_47:

(11, 36259), (12, 36256), (13, 36253), (50, 36133), (Start: 64 @36100 has 12 MA's), (Start: 68 @36070 has 4 MA's), (69, 36067), (79, 36010), (84, 35965), (87, 35947), (96, 35872), (121, 35800), (133, 35755),

Gene: Kingsolomon_38 Start: 34546, Stop: 34133, Start Num: 47

Candidate Starts for Kingsolomon_38:

(3, 34735), (5, 34729), (9, 34708), (10, 34687), (Start: 44 @34552 has 8 MA's), (Start: 47 @34546 has 19 MA's), (Start: 60 @34516 has 21 MA's), (67, 34480), (69, 34474), (73, 34450), (74, 34444), (79, 34417), (82, 34378), (85, 34366), (87, 34354), (91, 34321), (93, 34309), (101, 34252), (121, 34201), (137, 34138),

Gene: KirDoubleO7_36 Start: 34538, Stop: 34158, Start Num: 60

Candidate Starts for KirDoubleO7_36:

(Start: 44 @34574 has 8 MA's), (Start: 47 @34568 has 19 MA's), (Start: 60 @34538 has 21 MA's), (69, 34499), (73, 34475), (74, 34469), (79, 34442), (82, 34403), (85, 34391), (87, 34379), (91, 34346), (93, 34334), (101, 34277), (137, 34163),

Gene: Kraw_47 Start: 35905, Stop: 35591, Start Num: 68

Candidate Starts for Kraw_47:

(33, 36019), (46, 35974), (Start: 57 @35950 has 15 MA's), (Start: 60 @35944 has 21 MA's), (Start: 68 @35905 has 4 MA's), (77, 35854), (86, 35785), (90, 35764), (92, 35743), (94, 35725), (125, 35623),

Gene: Kropertea_38 Start: 33093, Stop: 32698, Start Num: 60

Candidate Starts for Kropertea_38:

(Start: 44 @33129 has 8 MA's), (Start: 60 @33093 has 21 MA's), (67, 33060), (74, 33009), (79, 32982), (82, 32943), (87, 32919), (121, 32769), (123, 32763), (127, 32739),

Gene: Krueger_49 Start: 35862, Stop: 35461, Start Num: 57

Candidate Starts for Krueger_49:

(Start: 57 @35862 has 15 MA's), (Start: 64 @35850 has 12 MA's), (Start: 68 @35820 has 4 MA's), (83, 35718), (87, 35697), (91, 35664), (96, 35622), (103, 35586), (130, 35493), (133, 35487),

Gene: Krypton555_38 Start: 34434, Stop: 34048, Start Num: 60

Candidate Starts for Krypton555_38:

(Start: 27 @34530 has 1 MA's), (36, 34500), (Start: 44 @34470 has 8 MA's), (Start: 47 @34464 has 19 MA's), (Start: 60 @34434 has 21 MA's), (69, 34395), (73, 34371), (74, 34365), (79, 34338), (82, 34299), (85, 34287), (87, 34275), (91, 34242), (121, 34116), (137, 34053),

Gene: LastHope_46 Start: 34433, Stop: 34047, Start Num: 61

Candidate Starts for LastHope_46:

(29, 34514), (32, 34508), (35, 34493), (Start: 61 @34433 has 94 MA's), (79, 34340), (81, 34313), (120, 34142), (136, 34073),

Gene: LaterM_44 Start: 35874, Stop: 35497, Start Num: 61

Candidate Starts for LaterM_44:

(38, 35925), (Start: 61 @35874 has 94 MA's), (Start: 68 @35838 has 4 MA's), (78, 35784), (79, 35778), (113, 35586), (120, 35571), (132, 35523),

Gene: Lavahound_42 Start: 36094, Stop: 35702, Start Num: 63

Candidate Starts for Lavahound_42:

(Start: 63 @36094 has 16 MA's), (Start: 68 @36064 has 4 MA's), (73, 36037), (79, 36004), (80, 35983), (81, 35977), (87, 35941), (90, 35923), (96, 35866), (117, 35794), (133, 35728), (137, 35707),

Gene: LeBron_38 Start: 32968, Stop: 32552, Start Num: 44

Candidate Starts for LeBron_38:

(Start: 44 @32968 has 8 MA's), (Start: 47 @32962 has 19 MA's), (Start: 56 @32941 has 30 MA's), (Start: 60 @32932 has 21 MA's), (66, 32899), (79, 32833), (82, 32794), (87, 32770), (93, 32725), (124, 32617),

Gene: LeMond_47 Start: 36084, Stop: 35710, Start Num: 64

Candidate Starts for LeMond_47:

(29, 36180), (51, 36117), (Start: 64 @36084 has 12 MA's), (Start: 68 @36054 has 4 MA's), (69, 36051), (79, 35994), (84, 35949), (87, 35931), (96, 35856), (121, 35781), (133, 35736),

Gene: Lea83_46 Start: 35646, Stop: 35257, Start Num: 62

Candidate Starts for Lea83_46:

(28, 35736), (36, 35709), (Start: 45 @35679 has 4 MA's), (Start: 62 @35646 has 3 MA's), (94, 35433), (96, 35415), (107, 35367), (133, 35283),

Gene: Lebo14_47 Start: 36210, Stop: 35857, Start Num: 60

Candidate Starts for Lebo14_47:

(33, 36285), (46, 36240), (Start: 57 @36216 has 15 MA's), (Start: 60 @36210 has 21 MA's), (Start: 68 @36171 has 4 MA's), (77, 36120), (86, 36051), (90, 36030), (92, 36009), (94, 35991), (125, 35889),

Gene: Lewan_40 Start: 34274, Stop: 33885, Start Num: 56

Candidate Starts for Lewan_40:

(Start: 56 @34274 has 30 MA's), (Start: 60 @34265 has 21 MA's), (69, 34226), (73, 34202), (74, 34196), (82, 34130), (87, 34106), (93, 34061), (109, 33980), (112, 33974), (118, 33962), (121, 33950),

Gene: LilDestine_40 Start: 34278, Stop: 33889, Start Num: 56

Candidate Starts for LilDestine_40:

(Start: 56 @34278 has 30 MA's), (Start: 60 @34269 has 21 MA's), (69, 34230), (73, 34206), (74, 34200), (79, 34173), (82, 34134), (87, 34110), (93, 34065), (112, 33978), (121, 33954),

Gene: LindNT_43 Start: 35164, Stop: 34787, Start Num: 61

Candidate Starts for LindNT_43:

(38, 35215), (Start: 61 @35164 has 94 MA's), (Start: 68 @35128 has 4 MA's), (72, 35113), (79, 35068), (120, 34861), (132, 34813),

Gene: LiyuLake_38 Start: 34530, Stop: 34117, Start Num: 47

Candidate Starts for LiyuLake_38:

(3, 34719), (5, 34713), (9, 34692), (10, 34671), (Start: 44 @34536 has 8 MA's), (Start: 47 @34530 has 19 MA's), (Start: 60 @34500 has 21 MA's), (67, 34464), (69, 34458), (74, 34428), (79, 34401), (82, 34362), (85, 34350), (87, 34338), (91, 34305), (93, 34293), (121, 34185), (137, 34122),

Gene: Llorens_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Llorens_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: Loadrie_40 Start: 34312, Stop: 33923, Start Num: 56

Candidate Starts for Loadrie_40:

(Start: 56 @34312 has 30 MA's), (Start: 60 @34303 has 21 MA's), (69, 34264), (73, 34240), (74, 34234), (82, 34168), (87, 34144), (93, 34099), (109, 34018), (112, 34012), (118, 34000), (121, 33988),

Gene: Lolly9_38 Start: 34324, Stop: 33941, Start Num: 60

Candidate Starts for Lolly9_38:

(3, 34543), (5, 34537), (9, 34516), (10, 34495), (Start: 44 @34360 has 8 MA's), (Start: 47 @34354 has 19 MA's), (Start: 60 @34324 has 21 MA's), (67, 34288), (69, 34282), (74, 34252), (79, 34225), (82, 34186), (85, 34174), (87, 34162), (91, 34129), (92, 34123), (93, 34117), (101, 34060), (121, 34009), (137, 33946),

Gene: Lumos_38 Start: 34543, Stop: 34130, Start Num: 47

Candidate Starts for Lumos_38:

(3, 34732), (5, 34726), (9, 34705), (10, 34684), (Start: 44 @34549 has 8 MA's), (Start: 47 @34543 has 19 MA's), (Start: 60 @34513 has 21 MA's), (67, 34477), (69, 34471), (73, 34447), (74, 34441), (79, 34414), (82, 34375), (85, 34363), (87, 34351), (91, 34318), (93, 34306), (101, 34249), (121, 34198), (137, 34135),

Gene: Lunahalos_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Lunahalos_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: Lynnae_40 Start: 34269, Stop: 33880, Start Num: 56

Candidate Starts for Lynnae_40:

(Start: 56 @34269 has 30 MA's), (Start: 60 @34260 has 21 MA's), (69, 34221), (73, 34197), (74, 34191), (82, 34125), (87, 34101), (93, 34056), (109, 33975), (112, 33969), (118, 33957), (121, 33945),

Gene: MAckerman_38 Start: 32940, Stop: 32530, Start Num: 47

Candidate Starts for MAckerman_38:

(Start: 44 @32946 has 8 MA's), (Start: 47 @32940 has 19 MA's), (55, 32922), (Start: 56 @32919 has 30 MA's), (Start: 60 @32910 has 21 MA's), (66, 32877), (79, 32811), (82, 32772), (87, 32748), (93, 32703), (95, 32688), (124, 32595),

Gene: MacnCheese_47 Start: 36557, Stop: 36177, Start Num: 62

Candidate Starts for MacnCheese_47:

(28, 36650), (Start: 45 @36590 has 4 MA's), (Start: 62 @36557 has 3 MA's), (78, 36473), (87, 36404), (96, 36329), (134, 36191),

Gene: Malthus_48 Start: 35950, Stop: 35591, Start Num: 57

Candidate Starts for Malthus_48:

(33, 36019), (46, 35974), (Start: 57 @35950 has 15 MA's), (Start: 60 @35944 has 21 MA's), (Start: 68 @35905 has 4 MA's), (77, 35854), (86, 35785), (90, 35764), (92, 35743), (94, 35725), (125, 35623),

Gene: Marcoliusprime_46 Start: 37051, Stop: 36680, Start Num: 61

Candidate Starts for Marcoliusprime_46:

(38, 37105), (Start: 61 @37051 has 94 MA's), (Start: 68 @37015 has 4 MA's), (72, 37000), (79, 36955), (86, 36895), (94, 36835), (97, 36805), (100, 36793), (111, 36763), (131, 36706),

Gene: MarkPhew_46 Start: 35518, Stop: 35147, Start Num: 64

Candidate Starts for MarkPhew_46:

(42, 35566), (Start: 47 @35554 has 19 MA's), (Start: 64 @35518 has 12 MA's), (79, 35428), (80, 35407), (87, 35365), (96, 35290), (99, 35269), (114, 35233), (122, 35212), (133, 35173),

Gene: Marshawn_46 Start: 35965, Stop: 35570, Start Num: 58

Candidate Starts for Marshawn_46:

(Start: 58 @35965 has 1 MA's), (71, 35914), (79, 35866), (84, 35821), (87, 35803), (96, 35728), (115, 35665), (133, 35599), (137, 35578),

Gene: McMater_45 Start: 35648, Stop: 35256, Start Num: 59

Candidate Starts for McMater_45:

(Start: 59 @35648 has 8 MA's), (76, 35564), (79, 35549), (96, 35411), (100, 35387), (122, 35324), (128, 35300), (135, 35267),

Gene: Mdavu_39 Start: 34516, Stop: 34118, Start Num: 59

Candidate Starts for Mdavu_39:

(40, 34555), (Start: 59 @34516 has 8 MA's), (79, 34420), (120, 34195), (122, 34189),

Gene: MeaningOfLife_44 Start: 35907, Stop: 35530, Start Num: 61

Candidate Starts for MeaningOfLife_44:

(38, 35958), (Start: 61 @35907 has 94 MA's), (Start: 68 @35871 has 4 MA's), (79, 35811), (99, 35652), (120, 35604), (132, 35556),

Gene: Megsy_44 Start: 35223, Stop: 34846, Start Num: 61

Candidate Starts for Megsy_44:

(38, 35274), (Start: 61 @35223 has 94 MA's), (Start: 68 @35187 has 4 MA's), (72, 35172), (79, 35127), (120, 34920), (132, 34872),

Gene: Miley16_40 Start: 34280, Stop: 33891, Start Num: 56

Candidate Starts for Miley16_40:

(Start: 56 @34280 has 30 MA's), (Start: 60 @34271 has 21 MA's), (69, 34232), (73, 34208), (74, 34202), (79, 34175), (82, 34136), (87, 34112), (93, 34067), (112, 33980), (121, 33956),

Gene: Milly_46 Start: 37024, Stop: 36653, Start Num: 61

Candidate Starts for Milly_46:

(38, 37078), (Start: 61 @37024 has 94 MA's), (Start: 68 @36988 has 4 MA's), (72, 36973), (79, 36928), (86, 36868), (94, 36808), (97, 36778), (100, 36766), (111, 36736), (131, 36679),

Gene: MiniLon_38 Start: 34355, Stop: 33942, Start Num: 47

Candidate Starts for MiniLon_38:

(3, 34544), (5, 34538), (9, 34517), (10, 34496), (Start: 44 @34361 has 8 MA's), (Start: 47 @34355 has 19 MA's), (Start: 60 @34325 has 21 MA's), (67, 34289), (69, 34283), (74, 34253), (79, 34226), (82, 34187), (85, 34175), (87, 34163), (91, 34130), (92, 34124), (93, 34118), (101, 34061), (121, 34010), (137, 33947),

Gene: MiniMac_38 Start: 34358, Stop: 33939, Start Num: 44

Candidate Starts for MiniMac_38:

(Start: 44 @34358 has 8 MA's), (Start: 47 @34352 has 19 MA's), (Start: 60 @34322 has 21 MA's), (67, 34286), (69, 34280), (74, 34250), (79, 34223), (82, 34184), (85, 34172), (87, 34160), (91, 34127), (92, 34121), (93, 34115), (101, 34058), (121, 34007), (137, 33944),

Gene: MissDaisy_45 Start: 35425, Stop: 35069, Start Num: 57

Candidate Starts for MissDaisy_45:

(39, 35470), (Start: 45 @35452 has 4 MA's), (46, 35449), (Start: 57 @35425 has 15 MA's), (Start: 60 @35419 has 21 MA's), (Start: 68 @35380 has 4 MA's), (77, 35329), (90, 35239), (92, 35218), (94, 35200),

Gene: Mitti_47 Start: 36126, Stop: 35767, Start Num: 57

Candidate Starts for Mitti_47:

(33, 36195), (46, 36150), (Start: 57 @36126 has 15 MA's), (Start: 60 @36120 has 21 MA's), (Start: 68 @36081 has 4 MA's), (77, 36030), (86, 35961), (90, 35940), (92, 35919), (94, 35901), (125, 35799),

Gene: MkaliMitinis3_40 Start: 34282, Stop: 33893, Start Num: 56

Candidate Starts for MkaliMitinis3_40:

(Start: 56 @34282 has 30 MA's), (Start: 60 @34273 has 21 MA's), (69, 34234), (73, 34210), (74, 34204), (82, 34138), (87, 34114), (93, 34069), (109, 33988), (112, 33982), (118, 33970), (121, 33958),

Gene: Moostard_38 Start: 34518, Stop: 34135, Start Num: 60

Candidate Starts for Moostard_38:

(3, 34737), (5, 34731), (9, 34710), (10, 34689), (Start: 44 @34554 has 8 MA's), (Start: 47 @34548 has 19 MA's), (Start: 60 @34518 has 21 MA's), (67, 34482), (69, 34476), (73, 34452), (74, 34446), (79, 34419), (82, 34380), (85, 34368), (87, 34356), (91, 34323), (93, 34311), (101, 34254), (121, 34203), (137, 34140),

Gene: MsGreen_38 Start: 34516, Stop: 34133, Start Num: 60

Candidate Starts for MsGreen_38:

(3, 34735), (5, 34729), (9, 34708), (10, 34687), (Start: 44 @34552 has 8 MA's), (Start: 47 @34546 has 19 MA's), (Start: 60 @34516 has 21 MA's), (67, 34480), (69, 34474), (73, 34450), (74, 34444), (79, 34417), (82, 34378), (85, 34366), (87, 34354), (91, 34321), (93, 34309), (101, 34252), (121, 34201), (137, 34138),

Gene: Mufasa_46 Start: 36609, Stop: 36241, Start Num: 61

Candidate Starts for Mufasa_46:

(Start: 61 @36609 has 94 MA's), (Start: 68 @36573 has 4 MA's), (79, 36513), (86, 36453), (94, 36393), (97, 36363), (100, 36351), (111, 36321), (131, 36267),

Gene: Murucutumbu_44 Start: 35967, Stop: 35590, Start Num: 61

Candidate Starts for Murucutumbu_44:

(38, 36018), (Start: 61 @35967 has 94 MA's), (Start: 68 @35931 has 4 MA's), (78, 35877), (79, 35871), (113, 35679), (120, 35664), (132, 35616),

Gene: Mynx_44 Start: 35298, Stop: 34921, Start Num: 61

Candidate Starts for Mynx_44:

(38, 35349), (Start: 61 @35298 has 94 MA's), (Start: 68 @35262 has 4 MA's), (72, 35247), (79, 35202), (120, 34995), (132, 34947),

Gene: Nergal_40 Start: 33595, Stop: 33221, Start Num: 61

Candidate Starts for Nergal_40:

(48, 33622), (Start: 61 @33595 has 94 MA's), (Start: 68 @33559 has 4 MA's), (73, 33532), (79, 33499), (87, 33436), (95, 33376), (99, 33340), (132, 33247), (137, 33226),

Gene: Netyap_40 Start: 34280, Stop: 33891, Start Num: 56

Candidate Starts for Netyap_40:

(Start: 56 @34280 has 30 MA's), (Start: 60 @34271 has 21 MA's), (69, 34232), (73, 34208), (74, 34202), (79, 34175), (82, 34136), (87, 34112), (93, 34067), (112, 33980), (121, 33956),

Gene: Nibb_45 Start: 35241, Stop: 34867, Start Num: 64

Candidate Starts for Nibb_45:

(52, 35265), (Start: 64 @35241 has 12 MA's), (Start: 68 @35211 has 4 MA's), (72, 35196), (79, 35151), (80, 35130), (87, 35088), (93, 35043), (96, 35013), (99, 34992), (116, 34950), (121, 34941), (129, 34908), (133, 34893),

Gene: Nicholas_38 Start: 34516, Stop: 34133, Start Num: 60

Candidate Starts for Nicholas_38:

(3, 34735), (5, 34729), (9, 34708), (10, 34687), (Start: 44 @34552 has 8 MA's), (Start: 47 @34546 has 19 MA's), (Start: 60 @34516 has 21 MA's), (67, 34480), (69, 34474), (73, 34450), (74, 34444), (79, 34417), (82, 34378), (85, 34366), (87, 34354), (91, 34321), (93, 34309), (101, 34252), (121, 34201), (137, 34138),

Gene: Nicholasp3_40 Start: 34281, Stop: 33892, Start Num: 56

Candidate Starts for Nicholasp3_40:

(Start: 56 @34281 has 30 MA's), (Start: 60 @34272 has 21 MA's), (69, 34233), (73, 34209), (74, 34203), (79, 34176), (82, 34137), (87, 34113), (93, 34068), (112, 33981), (118, 33969), (121, 33957),

Gene: Nikao_41 Start: 37140, Stop: 36742, Start Num: 59

Candidate Starts for Nikao_41:

(40, 37179), (Start: 59 @37140 has 8 MA's), (79, 37044), (120, 36819), (122, 36813),

Gene: November_43 Start: 35619, Stop: 35248, Start Num: 63

Candidate Starts for November_43:

(Start: 63 @35619 has 16 MA's), (Start: 68 @35589 has 4 MA's), (79, 35529), (87, 35466), (90, 35448), (93, 35421), (95, 35406), (96, 35391), (99, 35370), (104, 35349), (129, 35289), (133, 35274),

Gene: Nutello_38 Start: 34527, Stop: 34129, Start Num: 59

Candidate Starts for Nutello_38:

(40, 34566), (Start: 59 @34527 has 8 MA's), (79, 34431), (120, 34206), (122, 34200),

Gene: OhShagHennessy_37 Start: 32908, Stop: 32498, Start Num: 47

Candidate Starts for OhShagHennessy_37:

(Start: 44 @32914 has 8 MA's), (Start: 47 @32908 has 19 MA's), (Start: 56 @32887 has 30 MA's), (Start: 60 @32878 has 21 MA's), (66, 32845), (79, 32779), (82, 32740), (87, 32716), (93, 32671), (124, 32563),

Gene: OmniCritical_46 Start: 35929, Stop: 35576, Start Num: 60

Candidate Starts for OmniCritical_46:

(33, 36004), (46, 35959), (Start: 57 @35935 has 15 MA's), (Start: 60 @35929 has 21 MA's), (Start: 68 @35890 has 4 MA's), (77, 35839), (86, 35770), (90, 35749), (92, 35728), (94, 35710), (125, 35608),

Gene: Oscar_47 Start: 35987, Stop: 35613, Start Num: 64

Candidate Starts for Oscar_47:

(50, 36020), (Start: 64 @35987 has 12 MA's), (Start: 68 @35957 has 4 MA's), (69, 35954), (79, 35897), (84, 35852), (87, 35834), (96, 35759), (121, 35684), (133, 35639),

Gene: OverPar_41 Start: 34312, Stop: 33923, Start Num: 56

Candidate Starts for OverPar_41:

(Start: 56 @34312 has 30 MA's), (Start: 60 @34303 has 21 MA's), (69, 34264), (73, 34240), (74, 34234), (82, 34168), (87, 34144), (93, 34099), (109, 34018), (112, 34012), (118, 34000), (121, 33988),

Gene: PYPDinur_37 Start: 33042, Stop: 32662, Start Num: 60

Candidate Starts for PYPDinur_37:

(Start: 44 @33078 has 8 MA's), (Start: 60 @33042 has 21 MA's), (67, 33009), (73, 32979), (74, 32973), (79, 32946), (82, 32907), (88, 32877), (93, 32838), (110, 32760), (121, 32733), (123, 32727),

Gene: Padfoot_43 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for Padfoot_43:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: Padpat_44 Start: 34972, Stop: 34592, Start Num: 61

Candidate Starts for Padpat_44:

(41, 35008), (Start: 61 @34972 has 94 MA's), (Start: 68 @34936 has 4 MA's), (79, 34876), (120, 34666), (132, 34618),

Gene: Patt_44 Start: 35104, Stop: 34793, Start Num: 68

Candidate Starts for Patt_44:

(31, 35227), (33, 35218), (34, 35215), (36, 35209), (39, 35194), (Start: 45 @35176 has 4 MA's), (46, 35173), (Start: 57 @35149 has 15 MA's), (Start: 60 @35143 has 21 MA's), (Start: 68 @35104 has 4 MA's), (77, 35053), (90, 34963), (92, 34942), (94, 34924),

Gene: Peel_43 Start: 35098, Stop: 34718, Start Num: 61

Candidate Starts for Peel_43:

(41, 35134), (Start: 61 @35098 has 94 MA's), (Start: 68 @35062 has 4 MA's), (79, 35002), (99, 34843), (120, 34792), (132, 34744),

Gene: Pharb_43 Start: 34363, Stop: 33977, Start Num: 62

Candidate Starts for Pharb_43:

(Start: 62 @34363 has 3 MA's), (Start: 68 @34333 has 4 MA's), (87, 34210), (94, 34153), (96, 34135), (107, 34087), (110, 34081), (133, 34003),

Gene: PhelpsODU_45 Start: 34877, Stop: 34485, Start Num: 63

Candidate Starts for PhelpsODU_45:

(1, 35147), (2, 35111), (4, 35096), (7, 35087), (8, 35078), (Start: 63 @34877 has 16 MA's), (Start: 68 @34847 has 4 MA's), (87, 34724), (95, 34664), (96, 34649), (124, 34550), (133, 34511),

Gene: Phrank_46 Start: 34834, Stop: 34442, Start Num: 63

Candidate Starts for Phrank_46:

(6, 35047), (8, 35035), (Start: 63 @34834 has 16 MA's), (Start: 68 @34804 has 4 MA's), (87, 34681), (91, 34648), (95, 34621), (96, 34606), (103, 34570), (126, 34498), (133, 34468),

Gene: Piatt_43 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for Piatt_43:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: Pisa1_43 Start: 36268, Stop: 35891, Start Num: 61

Candidate Starts for Pisa1_43:

(38, 36319), (Start: 61 @36268 has 94 MA's), (Start: 68 @36232 has 4 MA's), (72, 36217), (79, 36172), (120, 35965), (132, 35917),

Gene: Pixie_45 Start: 35157, Stop: 34735, Start Num: 45

Candidate Starts for Pixie_45:

(Start: 45 @35157 has 4 MA's), (Start: 62 @35124 has 3 MA's), (87, 34968), (94, 34911), (96, 34893), (107, 34845), (133, 34761),

Gene: Pokerus_42 Start: 35018, Stop: 34638, Start Num: 61

Candidate Starts for Pokerus_42:

(Start: 61 @35018 has 94 MA's), (Start: 68 @34985 has 4 MA's), (73, 34958), (78, 34931), (79, 34925), (120, 34712), (132, 34664),

Gene: Poochiewood_37 Start: 32936, Stop: 32526, Start Num: 47

Candidate Starts for Poochiewood_37:

(Start: 44 @32942 has 8 MA's), (Start: 47 @32936 has 19 MA's), (Start: 56 @32915 has 30 MA's), (Start: 60 @32906 has 21 MA's), (66, 32873), (79, 32807), (82, 32768), (87, 32744), (93, 32699), (124, 32591),

Gene: Prithvi_44 Start: 35164, Stop: 34787, Start Num: 61

Candidate Starts for Prithvi_44:

(38, 35215), (Start: 61 @35164 has 94 MA's), (Start: 68 @35128 has 4 MA's), (72, 35113), (79, 35068), (120, 34861), (132, 34813),

Gene: Qhanda_49 Start: 36002, Stop: 35688, Start Num: 68

Candidate Starts for Qhanda_49:

(33, 36116), (46, 36071), (Start: 57 @36047 has 15 MA's), (Start: 60 @36041 has 21 MA's), (Start: 68 @36002 has 4 MA's), (77, 35951), (86, 35882), (90, 35861), (92, 35840), (94, 35822), (125, 35720),

Gene: Quby_38 Start: 32936, Stop: 32556, Start Num: 60

Candidate Starts for Quby_38:

(Start: 44 @32972 has 8 MA's), (Start: 60 @32936 has 21 MA's), (67, 32903), (73, 32873), (74, 32867), (79, 32840), (82, 32801), (88, 32771), (93, 32732), (102, 32672), (121, 32627), (123, 32621),

Gene: QuincyRose_42 Start: 35413, Stop: 35036, Start Num: 61

Candidate Starts for QuincyRose_42:

(38, 35464), (Start: 61 @35413 has 94 MA's), (Start: 68 @35377 has 4 MA's), (79, 35317), (99, 35158), (120, 35110), (132, 35062),

Gene: Ramen_43 Start: 34983, Stop: 34603, Start Num: 61

Candidate Starts for Ramen_43:

(41, 35019), (Start: 61 @34983 has 94 MA's), (Start: 68 @34947 has 4 MA's), (79, 34887), (120, 34677), (132, 34629),

Gene: Rapunzel97_43 Start: 34979, Stop: 34599, Start Num: 61

Candidate Starts for Rapunzel97_43:

(41, 35015), (Start: 61 @34979 has 94 MA's), (Start: 68 @34943 has 4 MA's), (79, 34883), (120, 34673), (132, 34625),

Gene: Red305_38 Start: 34516, Stop: 34133, Start Num: 60

Candidate Starts for Red305_38:

(3, 34735), (5, 34729), (9, 34708), (10, 34687), (Start: 44 @34552 has 8 MA's), (Start: 47 @34546 has 19 MA's), (Start: 60 @34516 has 21 MA's), (67, 34480), (69, 34474), (73, 34450), (74, 34444), (79, 34417), (82, 34378), (85, 34366), (87, 34354), (91, 34321), (93, 34309), (101, 34252), (121, 34201), (137, 34138),

Gene: Reptar3000_45 Start: 35140, Stop: 34784, Start Num: 57

Candidate Starts for Reptar3000_45:

(33, 35209), (46, 35164), (Start: 57 @35140 has 15 MA's), (Start: 60 @35134 has 21 MA's), (Start: 68 @35095 has 4 MA's), (77, 35044), (90, 34954), (92, 34933), (94, 34915),

Gene: Richo_45 Start: 35648, Stop: 35256, Start Num: 59

Candidate Starts for Richo_45:

(Start: 59 @35648 has 8 MA's), (76, 35564), (79, 35549), (96, 35411), (100, 35387), (122, 35324), (128, 35300), (135, 35267),

Gene: Rose5_37 Start: 32935, Stop: 32525, Start Num: 47

Candidate Starts for Rose5_37:

(Start: 44 @32941 has 8 MA's), (Start: 47 @32935 has 19 MA's), (55, 32917), (Start: 56 @32914 has 30 MA's), (Start: 60 @32905 has 21 MA's), (66, 32872), (79, 32806), (82, 32767), (87, 32743), (93, 32698), (95, 32683), (124, 32590),

Gene: Rosmarinus_43 Start: 35084, Stop: 34704, Start Num: 61

Candidate Starts for Rosmarinus_43:

(41, 35120), (Start: 61 @35084 has 94 MA's), (Start: 68 @35048 has 4 MA's), (79, 34988), (99, 34829), (120, 34778), (132, 34730),

Gene: Rossetti_40 Start: 34547, Stop: 34158, Start Num: 56

Candidate Starts for Rossetti_40:

(Start: 56 @34547 has 30 MA's), (Start: 60 @34538 has 21 MA's), (69, 34499), (73, 34475), (74, 34469), (79, 34442), (82, 34403), (87, 34379), (93, 34334), (112, 34247), (118, 34235), (121, 34223),

Gene: Rumpelstiltskin_40 Start: 34547, Stop: 34158, Start Num: 56

Candidate Starts for Rumpelstiltskin_40:

(Start: 56 @34547 has 30 MA's), (Start: 60 @34538 has 21 MA's), (69, 34499), (73, 34475), (74, 34469), (79, 34442), (82, 34403), (87, 34379), (93, 34334), (112, 34247), (121, 34223),

Gene: Ruthiejr_48 Start: 36000, Stop: 35641, Start Num: 57

Candidate Starts for Ruthiejr_48:

(33, 36069), (46, 36024), (Start: 57 @36000 has 15 MA's), (Start: 60 @35994 has 21 MA's), (Start: 68 @35955 has 4 MA's), (77, 35904), (86, 35835), (90, 35814), (92, 35793), (94, 35775), (125, 35673),

Gene: SamScheppers_46 Start: 36429, Stop: 36070, Start Num: 57

Candidate Starts for SamScheppers_46:

(33, 36498), (46, 36453), (Start: 57 @36429 has 15 MA's), (Start: 60 @36423 has 21 MA's), (Start: 68 @36384 has 4 MA's), (77, 36333), (86, 36264), (90, 36243), (92, 36222), (94, 36204), (125, 36102),

Gene: SamuelLPlaqson_44 Start: 35877, Stop: 35500, Start Num: 61

Candidate Starts for SamuelLPlaqson_44:

(38, 35928), (Start: 61 @35877 has 94 MA's), (Start: 68 @35841 has 4 MA's), (79, 35781), (120, 35574), (132, 35526),

Gene: Sarshaun_40 Start: 34314, Stop: 33925, Start Num: 56

Candidate Starts for Sarshaun_40:

(Start: 56 @34314 has 30 MA's), (Start: 60 @34305 has 21 MA's), (69, 34266), (73, 34242), (74, 34236), (82, 34170), (87, 34146), (93, 34101), (109, 34020), (112, 34014), (118, 34002), (121, 33990),

Gene: Scarlett_47 Start: 35979, Stop: 35605, Start Num: 64

Candidate Starts for Scarlett_47:

(50, 36012), (Start: 64 @35979 has 12 MA's), (Start: 68 @35949 has 4 MA's), (69, 35946), (79, 35889), (84, 35844), (87, 35826), (96, 35751), (121, 35676), (133, 35631),

Gene: SgtBeansprout_38 Start: 34527, Stop: 34063, Start Num: 59

Candidate Starts for SgtBeansprout_38:

(40, 34566), (Start: 59 @34527 has 8 MA's), (79, 34431), (120, 34206), (122, 34200),

Gene: Shadow1_48 Start: 35996, Stop: 35607, Start Num: 64

Candidate Starts for Shadow1_48:

(Start: 64 @35996 has 12 MA's), (Start: 68 @35966 has 4 MA's), (83, 35864), (87, 35843), (95, 35783), (96, 35768), (103, 35732), (117, 35696), (130, 35639), (133, 35633),

Gene: ShedlockHolmes_46 Start: 35683, Stop: 35261, Start Num: 45

Candidate Starts for ShedlockHolmes_46:

(28, 35740), (36, 35713), (Start: 45 @35683 has 4 MA's), (Start: 62 @35650 has 3 MA's), (94, 35437), (96, 35419), (107, 35371), (133, 35287),

Gene: Sheng711_38 Start: 33042, Stop: 32662, Start Num: 60

Candidate Starts for Sheng711_38:

(Start: 44 @33078 has 8 MA's), (Start: 60 @33042 has 21 MA's), (67, 33009), (73, 32979), (74, 32973), (79, 32946), (82, 32907), (88, 32877), (93, 32838), (110, 32760), (121, 32733), (123, 32727),

Gene: ShiaSurprise_44 Start: 35293, Stop: 34913, Start Num: 61

Candidate Starts for ShiaSurprise_44:

(41, 35329), (Start: 61 @35293 has 94 MA's), (Start: 68 @35257 has 4 MA's), (79, 35197), (99, 35038), (120, 34987), (132, 34939),

Gene: Silverleaf_37 Start: 32935, Stop: 32525, Start Num: 47

Candidate Starts for Silverleaf_37:

(Start: 44 @32941 has 8 MA's), (Start: 47 @32935 has 19 MA's), (55, 32917), (Start: 56 @32914 has 30 MA's), (Start: 60 @32905 has 21 MA's), (66, 32872), (79, 32806), (82, 32767), (87, 32743), (93, 32698), (95, 32683), (124, 32590),

Gene: SirPhilip_45 Start: 36219, Stop: 35824, Start Num: 63

Candidate Starts for SirPhilip_45:

(Start: 63 @36219 has 16 MA's), (Start: 68 @36189 has 4 MA's), (79, 36129), (81, 36102), (87, 36066), (98, 35973), (108, 35943), (139, 35850),

Gene: Slarp_47 Start: 36038, Stop: 35679, Start Num: 57

Candidate Starts for Slarp_47:

(33, 36107), (46, 36062), (Start: 57 @36038 has 15 MA's), (Start: 60 @36032 has 21 MA's), (Start: 68 @35993 has 4 MA's), (77, 35942), (86, 35873), (90, 35852), (92, 35831), (94, 35813), (125, 35711),

Gene: Slimphazie_43 Start: 34979, Stop: 34599, Start Num: 61

Candidate Starts for Slimphazie_43:

(41, 35015), (Start: 61 @34979 has 94 MA's), (Start: 68 @34943 has 4 MA's), (79, 34883), (120, 34673), (132, 34625),

Gene: Snenia_38 Start: 34517, Stop: 34134, Start Num: 60

Candidate Starts for Snenia_38:

(3, 34736), (5, 34730), (9, 34709), (10, 34688), (Start: 44 @34553 has 8 MA's), (Start: 47 @34547 has 19 MA's), (Start: 60 @34517 has 21 MA's), (67, 34481), (69, 34475), (73, 34451), (74, 34445), (79, 34418), (82, 34379), (85, 34367), (87, 34355), (91, 34322), (93, 34310), (101, 34253), (121, 34202), (137, 34139),

Gene: SoJulia_41 Start: 34540, Stop: 34151, Start Num: 56

Candidate Starts for SoJulia_41:

(Start: 56 @34540 has 30 MA's), (Start: 60 @34531 has 21 MA's), (69, 34492), (73, 34468), (74, 34462), (79, 34435), (82, 34396), (87, 34372), (93, 34327), (112, 34240), (121, 34216),

Gene: Soap141_40 Start: 34314, Stop: 33925, Start Num: 56

Candidate Starts for Soap141_40:

(Start: 56 @34314 has 30 MA's), (Start: 60 @34305 has 21 MA's), (69, 34266), (73, 34242), (74, 34236), (82, 34170), (87, 34146), (93, 34101), (109, 34020), (112, 34014), (118, 34002), (121, 33990),

Gene: Spock_43 Start: 35097, Stop: 34717, Start Num: 61

Candidate Starts for Spock_43:

(41, 35133), (Start: 61 @35097 has 94 MA's), (Start: 68 @35061 has 4 MA's), (79, 35001), (99, 34842), (120, 34791), (132, 34743),

Gene: Stinson_44 Start: 35487, Stop: 35110, Start Num: 61

Candidate Starts for Stinson_44:

(38, 35538), (Start: 61 @35487 has 94 MA's), (Start: 68 @35451 has 4 MA's), (78, 35397), (79, 35391), (113, 35199), (120, 35184), (132, 35136),

Gene: Strobilo_46 Start: 37026, Stop: 36655, Start Num: 61

Candidate Starts for Strobilo_46:

(38, 37080), (Start: 61 @37026 has 94 MA's), (Start: 68 @36990 has 4 MA's), (72, 36975), (79, 36930), (86, 36870), (94, 36810), (97, 36780), (100, 36768), (111, 36738), (131, 36681),

Gene: Sulley_43 Start: 35224, Stop: 34844, Start Num: 61

Candidate Starts for Sulley_43:

(38, 35275), (Start: 61 @35224 has 94 MA's), (Start: 68 @35188 has 4 MA's), (79, 35128), (113, 34933), (120, 34918), (132, 34870),

Gene: Sunflower1121_49 Start: 36097, Stop: 35708, Start Num: 63

Candidate Starts for Sunflower1121_49:

(Start: 63 @36097 has 16 MA's), (Start: 68 @36067 has 4 MA's), (83, 35965), (87, 35944), (95, 35884), (96, 35869), (103, 35833), (130, 35740),

Gene: Syra333_48 Start: 35764, Stop: 35375, Start Num: 64

Candidate Starts for Syra333_48:

(Start: 64 @35764 has 12 MA's), (Start: 68 @35734 has 4 MA's), (83, 35632), (87, 35611), (95, 35551), (96, 35536), (103, 35500), (117, 35464), (130, 35407), (133, 35401),

Gene: TBond007_45 Start: 35156, Stop: 34734, Start Num: 45

Candidate Starts for TBond007_45:

(Start: 45 @35156 has 4 MA's), (Start: 62 @35123 has 3 MA's), (87, 34967), (94, 34910), (96, 34892), (107, 34844), (133, 34760),

Gene: TClif_47 Start: 36099, Stop: 35698, Start Num: 54

Candidate Starts for TClif_47:

(Start: 54 @36099 has 1 MA's), (70, 36051), (75, 36015), (78, 36003), (79, 35997), (96, 35859), (106, 35814), (115, 35796), (120, 35775), (124, 35763), (134, 35715), (138, 35703),

Gene: Tachez_43 Start: 34941, Stop: 34561, Start Num: 61

Candidate Starts for Tachez_43:

(41, 34977), (Start: 61 @34941 has 94 MA's), (Start: 68 @34905 has 4 MA's), (79, 34845), (120, 34635), (132, 34587),

Gene: TaiwanKao_45 Start: 35220, Stop: 34843, Start Num: 61

Candidate Starts for TaiwanKao_45:

(38, 35271), (Start: 61 @35220 has 94 MA's), (Start: 68 @35184 has 4 MA's), (72, 35169), (79, 35124), (120, 34917), (132, 34869),

Gene: Taquito_47 Start: 36279, Stop: 35926, Start Num: 60

Candidate Starts for Taquito_47:

(33, 36354), (46, 36309), (Start: 57 @36285 has 15 MA's), (Start: 60 @36279 has 21 MA's), (Start: 68 @36240 has 4 MA's), (77, 36189), (86, 36120), (90, 36099), (92, 36078), (94, 36060), (125, 35958),

Gene: Teejan_41 Start: 37140, Stop: 36742, Start Num: 59

Candidate Starts for Teejan_41:

(40, 37179), (Start: 59 @37140 has 8 MA's), (79, 37044), (120, 36819), (122, 36813),

Gene: Tierra_46 Start: 35645, Stop: 35253, Start Num: 63

Candidate Starts for Tierra_46:

(7, 35855), (8, 35846), (Start: 63 @35645 has 16 MA's), (Start: 68 @35615 has 4 MA's), (87, 35492), (91, 35459), (95, 35432), (96, 35417), (103, 35381), (120, 35330), (126, 35309), (133, 35279),

Gene: Tigress9_48 Start: 35850, Stop: 35461, Start Num: 64

Candidate Starts for Tigress9_48:

(Start: 57 @35862 has 15 MA's), (Start: 64 @35850 has 12 MA's), (Start: 68 @35820 has 4 MA's), (83, 35718), (87, 35697), (91, 35664), (96, 35622), (103, 35586), (130, 35493), (133, 35487),

Gene: TingHuaYa_44 Start: 34216, Stop: 33830, Start Num: 61

Candidate Starts for TingHuaYa_44:

(29, 34297), (32, 34291), (35, 34276), (Start: 61 @34216 has 94 MA's), (79, 34123), (81, 34096), (120, 33925), (136, 33856),

Gene: TiniBug_44 Start: 35873, Stop: 35496, Start Num: 61

Candidate Starts for TiniBug_44:

(38, 35924), (Start: 61 @35873 has 94 MA's), (Start: 68 @35837 has 4 MA's), (79, 35777), (120, 35570), (132, 35522),

Gene: Topper_43 Start: 35096, Stop: 34716, Start Num: 61

Candidate Starts for Topper_43:

(41, 35132), (Start: 61 @35096 has 94 MA's), (Start: 68 @35060 has 4 MA's), (79, 35000), (99, 34841), (120, 34790), (132, 34742),

Gene: Torres_41 Start: 37141, Stop: 36743, Start Num: 59

Candidate Starts for Torres_41:

(40, 37180), (Start: 59 @37141 has 8 MA's), (79, 37045), (120, 36820), (122, 36814),

Gene: Tourach_40 Start: 34296, Stop: 33907, Start Num: 56

Candidate Starts for Tourach_40:

(Start: 56 @34296 has 30 MA's), (Start: 60 @34287 has 21 MA's), (69, 34248), (74, 34218), (79, 34191), (82, 34152), (87, 34128), (93, 34083), (112, 33996), (118, 33984), (121, 33972),

Gene: TreyKay_44 Start: 35164, Stop: 34787, Start Num: 61

Candidate Starts for TreyKay_44:

(38, 35215), (Start: 61 @35164 has 94 MA's), (Start: 68 @35128 has 4 MA's), (72, 35113), (79, 35068), (120, 34861), (132, 34813),

Gene: TriFive_38 Start: 34516, Stop: 34133, Start Num: 60

Candidate Starts for TriFive_38:

(3, 34735), (5, 34729), (9, 34708), (10, 34687), (Start: 44 @34552 has 8 MA's), (Start: 47 @34546 has 19 MA's), (Start: 60 @34516 has 21 MA's), (67, 34480), (69, 34474), (73, 34450), (74, 34444), (79, 34417), (82, 34378), (85, 34366), (87, 34354), (91, 34321), (93, 34309), (101, 34252), (121, 34201), (137, 34138),

Gene: TribbleTrouble_43 Start: 35018, Stop: 34626, Start Num: 61

Candidate Starts for TribbleTrouble_43:

(37, 35075), (Start: 61 @35018 has 94 MA's), (Start: 68 @34982 has 4 MA's), (96, 34784), (107, 34736), (133, 34652), (134, 34640), (137, 34631),

Gene: Trice_39 Start: 34528, Stop: 34130, Start Num: 59

Candidate Starts for Trice_39:

(40, 34567), (Start: 59 @34528 has 8 MA's), (79, 34432), (120, 34207), (122, 34201),

Gene: TruffulaTree_43 Start: 34975, Stop: 34595, Start Num: 61

Candidate Starts for TruffulaTree_43:

(41, 35011), (Start: 61 @34975 has 94 MA's), (Start: 68 @34939 has 4 MA's), (79, 34879), (120, 34669), (132, 34621),

Gene: Twitch_43 Start: 35098, Stop: 34718, Start Num: 61

Candidate Starts for Twitch_43:

(41, 35134), (Start: 61 @35098 has 94 MA's), (Start: 68 @35062 has 4 MA's), (79, 35002), (99, 34843), (120, 34792), (132, 34744),

Gene: Tyson_37 Start: 32936, Stop: 32526, Start Num: 47

Candidate Starts for Tyson_37:

(Start: 44 @32942 has 8 MA's), (Start: 47 @32936 has 19 MA's), (55, 32918), (Start: 56 @32915 has 30 MA's), (Start: 60 @32906 has 21 MA's), (66, 32873), (79, 32807), (82, 32768), (87, 32744), (93, 32699), (95, 32684), (124, 32591),

Gene: UPIE_38 Start: 32940, Stop: 32524, Start Num: 44

Candidate Starts for UPIE_38:

(Start: 44 @32940 has 8 MA's), (Start: 47 @32934 has 19 MA's), (Start: 56 @32913 has 30 MA's), (Start: 60 @32904 has 21 MA's), (66, 32871), (79, 32805), (82, 32766), (87, 32742), (93, 32697), (124, 32589),

Gene: Underpass_40 Start: 34281, Stop: 33892, Start Num: 56

Candidate Starts for Underpass_40:

(Start: 56 @34281 has 30 MA's), (Start: 60 @34272 has 21 MA's), (69, 34233), (73, 34209), (74, 34203), (79, 34176), (82, 34137), (87, 34113), (93, 34068), (112, 33981), (118, 33969), (121, 33957),

Gene: Unicorn_45 Start: 34877, Stop: 34485, Start Num: 63

Candidate Starts for Unicorn_45:

(1, 35147), (2, 35111), (4, 35096), (7, 35087), (8, 35078), (Start: 63 @34877 has 16 MA's), (Start: 68 @34847 has 4 MA's), (87, 34724), (95, 34664), (96, 34649), (124, 34550), (133, 34511),

Gene: Urkel_44 Start: 35877, Stop: 35500, Start Num: 61

Candidate Starts for Urkel_44:

(38, 35928), (Start: 61 @35877 has 94 MA's), (Start: 68 @35841 has 4 MA's), (79, 35781), (120, 35574), (132, 35526),

Gene: Veliki_43 Start: 35015, Stop: 34635, Start Num: 61

Candidate Starts for Veliki_43:

(41, 35051), (Start: 61 @35015 has 94 MA's), (Start: 68 @34979 has 4 MA's), (79, 34919), (120, 34709), (132, 34661),

Gene: Vetrrix_40 Start: 34287, Stop: 33898, Start Num: 56

Candidate Starts for Vetrrix_40:

(Start: 56 @34287 has 30 MA's), (Start: 60 @34278 has 21 MA's), (69, 34239), (73, 34215), (74, 34209), (79, 34182), (82, 34143), (87, 34119), (93, 34074), (112, 33987), (121, 33963),

Gene: Wamburgrxpress_38 Start: 32949, Stop: 32539, Start Num: 47

Candidate Starts for Wamburgrxpress_38:

(Start: 44 @32955 has 8 MA's), (Start: 47 @32949 has 19 MA's), (Start: 56 @32928 has 30 MA's), (Start: 60 @32919 has 21 MA's), (66, 32886), (79, 32820), (82, 32781), (87, 32757), (93, 32712), (124, 32604),

Gene: Whirlwind_39 Start: 34372, Stop: 33890, Start Num: 27

Candidate Starts for Whirlwind_39:

(Start: 27 @34372 has 1 MA's), (36, 34342), (Start: 44 @34312 has 8 MA's), (Start: 47 @34306 has 19 MA's), (Start: 60 @34276 has 21 MA's), (69, 34237), (73, 34213), (74, 34207), (79, 34180), (82, 34141), (85, 34129), (87, 34117), (91, 34084), (121, 33958), (137, 33895),

Gene: Wigglewigggle_40 Start: 34313, Stop: 33924, Start Num: 56

Candidate Starts for Wigglewigggle_40:

(Start: 56 @34313 has 30 MA's), (Start: 60 @34304 has 21 MA's), (69, 34265), (73, 34241), (74, 34235), (82, 34169), (87, 34145), (93, 34100), (109, 34019), (112, 34013), (118, 34001), (121, 33989),

Gene: Wilder_40 Start: 34286, Stop: 33897, Start Num: 56

Candidate Starts for Wilder_40:

(Start: 56 @34286 has 30 MA's), (Start: 60 @34277 has 21 MA's), (69, 34238), (73, 34214), (74, 34208), (82, 34142), (87, 34118), (93, 34073), (109, 33992), (112, 33986), (118, 33974), (121, 33962),

Gene: Winky_40 Start: 34280, Stop: 33891, Start Num: 56

Candidate Starts for Winky_40:

(Start: 56 @34280 has 30 MA's), (Start: 60 @34271 has 21 MA's), (69, 34232), (73, 34208), (74, 34202), (79, 34175), (82, 34136), (87, 34112), (93, 34067), (112, 33980), (121, 33956),

Gene: Wintermute_47 Start: 36187, Stop: 35828, Start Num: 57

Candidate Starts for Wintermute_47:

(33, 36256), (46, 36211), (Start: 57 @36187 has 15 MA's), (Start: 60 @36181 has 21 MA's), (Start: 68 @36142 has 4 MA's), (77, 36091), (86, 36022), (90, 36001), (92, 35980), (94, 35962), (125, 35860),

Gene: Wyatt2_38 Start: 32935, Stop: 32525, Start Num: 47

Candidate Starts for Wyatt2_38:

(Start: 44 @32941 has 8 MA's), (Start: 47 @32935 has 19 MA's), (55, 32917), (Start: 56 @32914 has 30 MA's), (Start: 60 @32905 has 21 MA's), (66, 32872), (79, 32806), (82, 32767), (87, 32743), (93, 32698), (95, 32683), (124, 32590),

Gene: Ximenita_49 Start: 35950, Stop: 35561, Start Num: 64

Candidate Starts for Ximenita_49:

(25, 36055), (38, 36016), (Start: 64 @35950 has 12 MA's), (Start: 68 @35920 has 4 MA's), (83, 35818), (87, 35797), (88, 35791), (91, 35764), (95, 35737), (96, 35722), (103, 35686), (119, 35641), (130, 35593), (133, 35587), (134, 35575),

Gene: Y10_46 Start: 36100, Stop: 35747, Start Num: 60

Candidate Starts for Y10_46:

(33, 36175), (46, 36130), (Start: 57 @36106 has 15 MA's), (Start: 60 @36100 has 21 MA's), (Start: 68 @36061 has 4 MA's), (77, 36010), (86, 35941), (90, 35920), (92, 35899), (94, 35881), (125, 35779),

Gene: Y2_46 Start: 36100, Stop: 35747, Start Num: 60

Candidate Starts for Y2_46:

(33, 36175), (46, 36130), (Start: 57 @36106 has 15 MA's), (Start: 60 @36100 has 21 MA's), (Start: 68 @36061 has 4 MA's), (77, 36010), (86, 35941), (90, 35920), (92, 35899), (94, 35881), (125, 35779),

Gene: YasnayaPolyana_47 Start: 36037, Stop: 35678, Start Num: 57

Candidate Starts for YasnayaPolyana_47:

(33, 36106), (46, 36061), (Start: 57 @36037 has 15 MA's), (Start: 60 @36031 has 21 MA's), (Start: 68 @35992 has 4 MA's), (77, 35941), (86, 35872), (90, 35851), (92, 35830), (94, 35812), (125, 35710),

Gene: Yuna_49 Start: 36719, Stop: 36363, Start Num: 63

Candidate Starts for Yuna_49:

(Start: 63 @36719 has 16 MA's), (Start: 68 @36689 has 4 MA's), (78, 36635), (79, 36629), (80, 36608), (87, 36566), (95, 36506), (96, 36491), (129, 36404), (133, 36389),

Gene: Yunkel11_46 Start: 34974, Stop: 34585, Start Num: 61

Candidate Starts for Yunkel11_46:

(17, 35112), (18, 35106), (20, 35103), (23, 35094), (26, 35079), (Start: 61 @34974 has 94 MA's), (Start: 64 @34968 has 12 MA's), (79, 34878), (87, 34815), (92, 34776), (96, 34740), (115, 34680), (117, 34674), (138, 34590),

Gene: Zakai_40 Start: 34538, Stop: 34149, Start Num: 56

Candidate Starts for Zakai_40:

(Start: 56 @34538 has 30 MA's), (Start: 60 @34529 has 21 MA's), (69, 34490), (73, 34466), (74, 34460), (82, 34394), (87, 34370), (93, 34325), (109, 34244), (112, 34238), (118, 34226), (121, 34214),

Gene: Zaria_38 Start: 32950, Stop: 32540, Start Num: 47

Candidate Starts for Zaria_38:

(Start: 44 @32956 has 8 MA's), (Start: 47 @32950 has 19 MA's), (55, 32932), (Start: 56 @32929 has 30 MA's), (Start: 60 @32920 has 21 MA's), (66, 32887), (79, 32821), (82, 32782), (87, 32758), (93, 32713), (95, 32698), (124, 32605),

Gene: Zavala_44 Start: 35258, Stop: 34881, Start Num: 61

Candidate Starts for Zavala_44:

(38, 35309), (Start: 61 @35258 has 94 MA's), (Start: 68 @35222 has 4 MA's), (72, 35207), (79, 35162), (120, 34955), (132, 34907),

Gene: ZhongYanYuan_39 Start: 34142, Stop: 33753, Start Num: 56

Candidate Starts for ZhongYanYuan_39:

(Start: 56 @34142 has 30 MA's), (Start: 60 @34133 has 21 MA's), (69, 34094), (74, 34064), (82, 33998), (87, 33974), (93, 33929), (104, 33857), (112, 33842), (118, 33830), (121, 33818),

Gene: ZoeJ_45 Start: 36489, Stop: 36121, Start Num: 61

Candidate Starts for ZoeJ_45:

(38, 36546), (Start: 61 @36489 has 94 MA's), (Start: 68 @36453 has 4 MA's), (71, 36441), (79, 36393), (87, 36330), (94, 36273), (105, 36213), (111, 36201), (131, 36147),