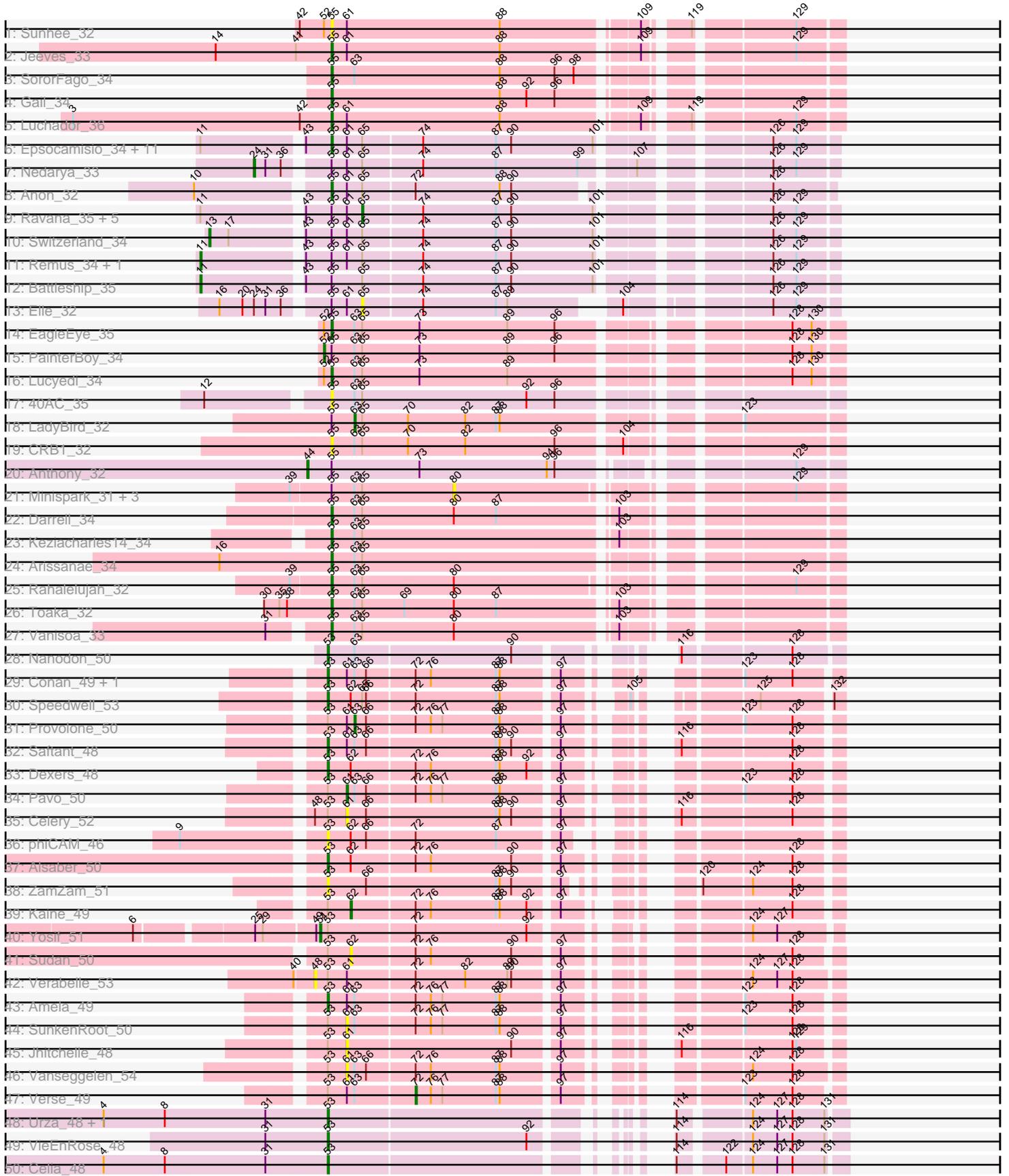
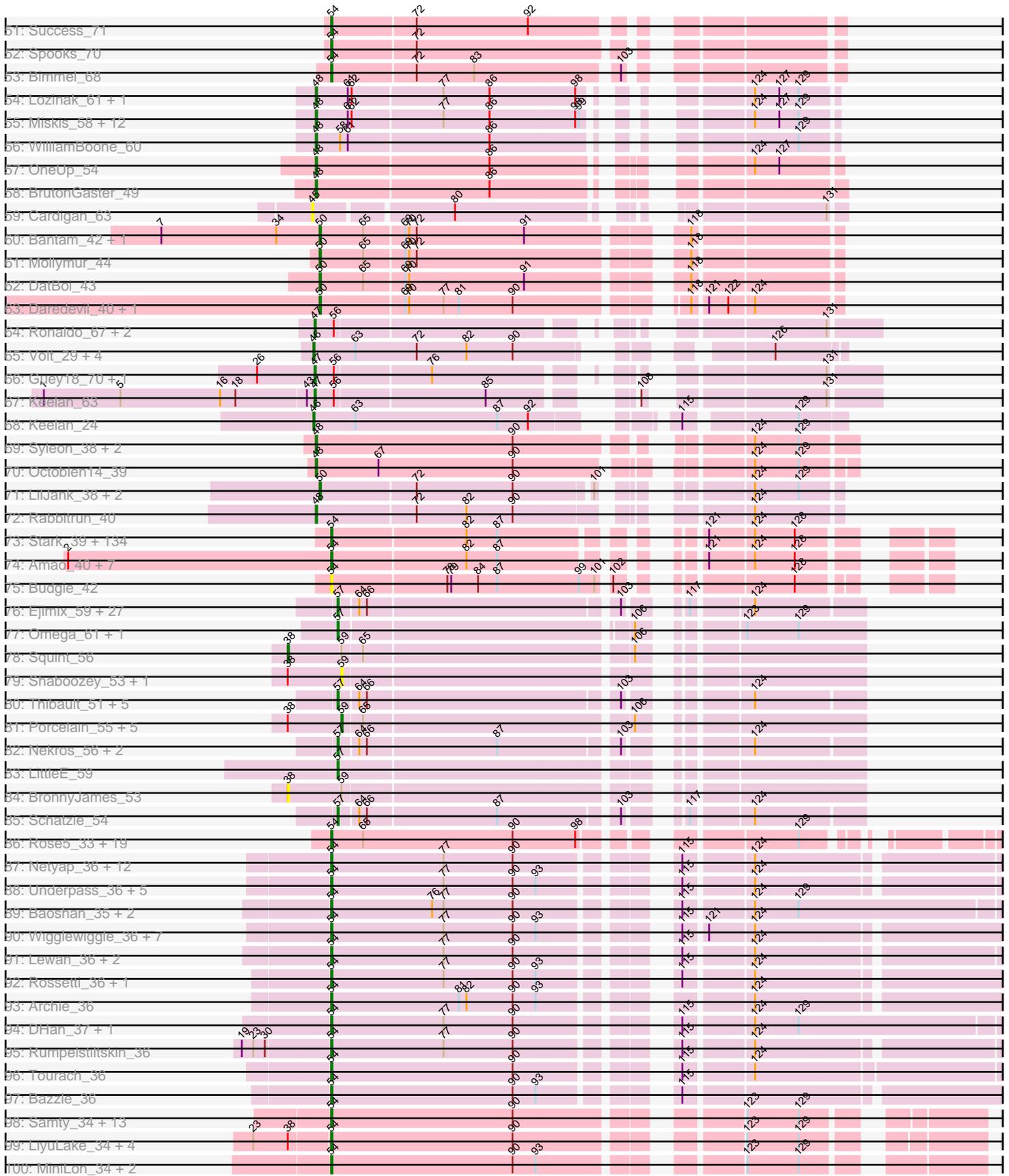


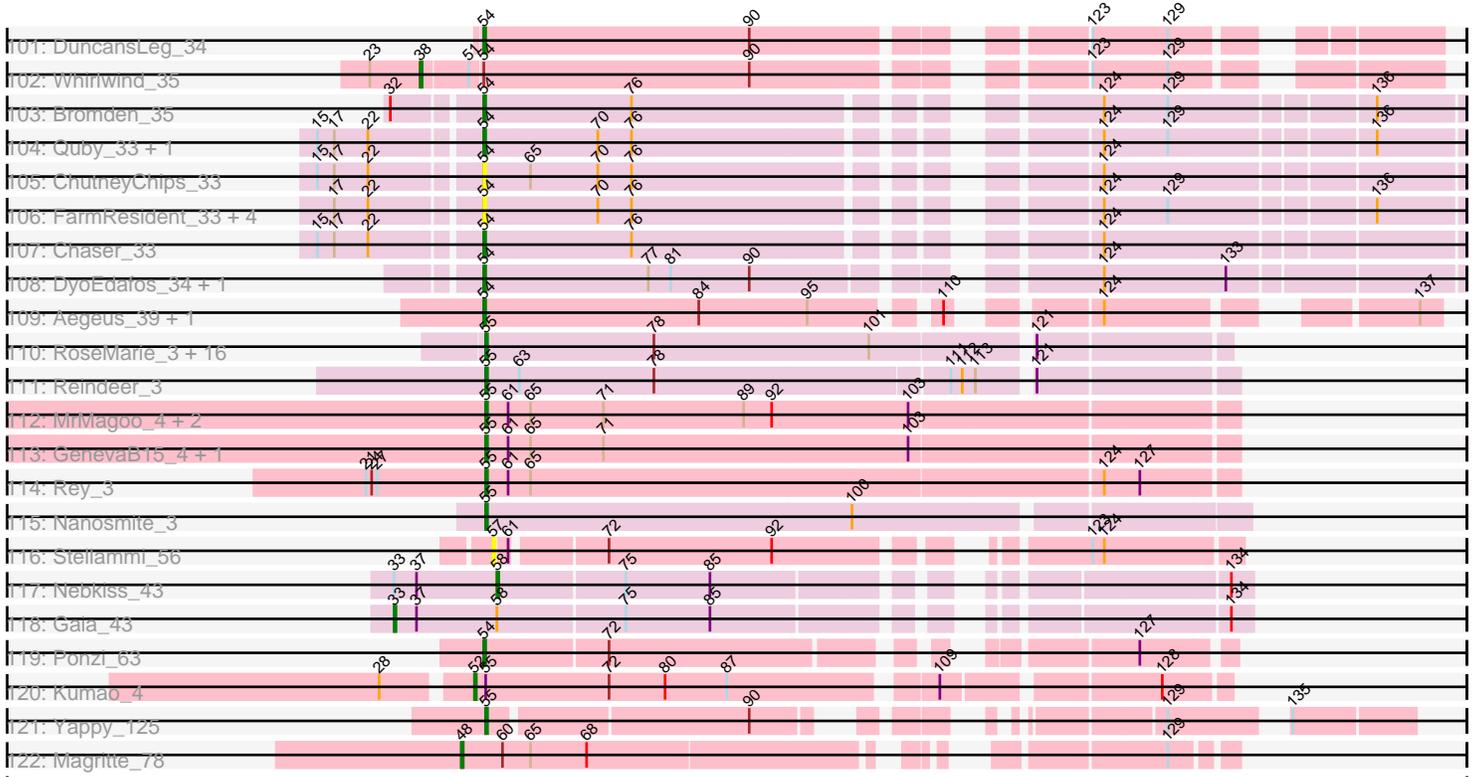
Pham 288961



Pham 288961



Pham 288961



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 288961 Report

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

Pham number 288961 has 446 members, 75 are drafts.

Phages represented in each track:

- Track 1 : Sunhee_32
- Track 2 : Jeeves_33
- Track 3 : SororFago_34
- Track 4 : Gail_34
- Track 5 : Luchador_36
- Track 6 : Epsocamisio_34, Anaysia_34, Boohoo_34, Strosahl_34, MinecraftSteve_35, LastResort_34, Rosalind_34, ShayRa_35, Soups_34, KatherineG_34, Looper_35, ReMo_34
- Track 7 : Nedarya_33
- Track 8 : Anon_32
- Track 9 : Ravana_35, JSwag_34, Warrior24_34, Waits_34, DekHockey33_34, Oofda_34
- Track 10 : Switzerland_34
- Track 11 : Remus_34, Nebulosus_34
- Track 12 : Battleship_35
- Track 13 : Elle_32
- Track 14 : EagleEye_35
- Track 15 : PainterBoy_34
- Track 16 : Lucyedi_34
- Track 17 : 40AC_35
- Track 18 : LadyBird_32
- Track 19 : CRB1_32
- Track 20 : Anthony_32
- Track 21 : Minispark_31, WorldCup_31, Bellris_31, CogOmlette_31
- Track 22 : Darrell_34
- Track 23 : Keziacharles14_34
- Track 24 : Arissanae_34
- Track 25 : Rahalelujah_32
- Track 26 : Toaka_32
- Track 27 : Vanisoa_33
- Track 28 : Nanodon_50
- Track 29 : Conan_49, ElGato_49
- Track 30 : Speedwell_53
- Track 31 : Provolone_50
- Track 32 : Saftant_48
- Track 33 : Dexers_48
- Track 34 : Pavo_50

- Track 35 : Celery_52
- Track 36 : phiCAM_46
- Track 37 : Alsaber_50
- Track 38 : ZamZam_51
- Track 39 : Kaine_49
- Track 40 : Yosif_51
- Track 41 : Sudan_50
- Track 42 : Verabelle_53
- Track 43 : Amela_49
- Track 44 : SunkenRoot_50
- Track 45 : Jhitchelle_48
- Track 46 : Vanseggelen_54
- Track 47 : Verse_49
- Track 48 : Urza_48, Itza_48
- Track 49 : VieEnRose_48
- Track 50 : Celia_48
- Track 51 : Success_71
- Track 52 : Spooks_70
- Track 53 : Bimmel_68
- Track 54 : Lozinak_61, Smoothie_62
- Track 55 : Miskis_58, PhinkBoden_60, Cucurbita_62, Geeche_59, ClubL_61, Toniann_61, Engineer_62, Dusty_60, Aphelion_60, Culver_62, Bachita_62, Norvs_61, Abscondus_60
- Track 56 : WilliamBoone_60
- Track 57 : OneUp_54
- Track 58 : BrutonGaster_49
- Track 59 : Cardigan_63
- Track 60 : Bantam_42, SpeedDemon_440
- Track 61 : Mollymur_44
- Track 62 : DatBoi_43
- Track 63 : Daredevil_40, Towmatter_39
- Track 64 : Ronaldo_67, Ziko_67, Volt_67
- Track 65 : Volt_29, Ziko_30, Ronaldo_30, Fryberger_27, Guey18_31
- Track 66 : Guey18_70, Fryberger_64
- Track 67 : Keelan_63
- Track 68 : Keelan_24
- Track 69 : Syleon_38, Kudefre_37, Sephiroth_38
- Track 70 : Octobien14_39
- Track 71 : LilJank_38, Trax_38, Neville_38
- Track 72 : Rabbitrun_40
- Track 73 : Stark_39, Elph10_39, Harella_39, Maxxinista_39, Emmina_39, StormChicken_38, HufflyPuff_37, OrionPax_40, FireRed_38, ShereKhan_40, Saints25_40, MollyToe_38, StellaBean_38, JeTaime_41, Tomaszewski_38, AmericanBeauty_40, Bogg_39, Rimmer_37, Kostya_39, FoghornLeghorn_38, Glexan_37, TeardropMSU_37, Highbury_40, Moldemort_39, Sassay_37, Hoonter_40, Paperbeatsrock_40, Argent26_40, PaddyBaddy_40, Simpliphy_40, GooberAzure_40, DrDrey_41, Lilpickle_37, Phaja_38, StolenFromERC_40, Gage_40, Nimrod_38, Manda_39, Rakim_39, Lilac_40, MadamMonkfish_39, HanKaySha_40, BilboSwaggins_39, Bench_41, Ukulele_39, Dumbo_39, Kimchi_40, TeamEdward_38, Becksu_38, YassJohnny_39, 244_42, SophKB_38, Myrale_40, Hopey_41, Cactus_39, Easy2Say_40, Porky_38, Youngblood_38, IHOP_38, Kanye_40, Gator_37, Balomoji_38, Dusk_39, Miniwave_38, PhatBacter_38, FairyPath_38, BugsBunny_36, Icee_37, MPhalcon_37, BaboJay_38, BadStone_39, Xandras_40,

Asriel_37, Bask21_38, Stank_41, Qualification_39, Contagion_39,
NonchalantPear_39, Cjw1_39, Palpatine_38, GoldenSpark_40, Tuco_41,
Traaww1_36, Tarkin_40, Flypotenuse_36, Mosby_38, Barbarian_37, Misfit_38,
Phaux_37, Eureka_39, Ptowny_40, NelitzaMV_38, RiverMonster_38, Terminus_38,
Goldilocks_39, Murphy_39, Brewer_38, Command613_39, Phrux_39, Teaspoon_40,
Elite2014_37, Wiggin_41, Goku_39, ChosenOne_38, Bruin_39, ABCat_38,
Willez_37, Adnama_41, Gemini_41, Policronamos_38, Thimble_39, Nala_38,
Daikon_39, Marshmallow_39, Cookies_39, Petra64142_40, CrystalP_40,
Pharsalus_39, Lilizi_40, Buck_37, Thresher_40, Filch_41, NoSleep_39, xkcd_39,
ShamWow_40, Pumpkin_42, Czystczon1_40, Greep_39, Toto_39, Henry_40,
MISSy_37, Murica_37, Sotrice96_38, TBrady12_40, Inca_37
• Track 74 : Amao_40, SirDuracell_38, Mindy_40, ChotaBhai_39, Pat3_39,
BigBubba_39, DoctorDiddles_39, Holt_40
• Track 75 : Budgie_42
• Track 76 : Ejimix_59, Halley_59, JuicyJay_58, Bombitas_56, EricMillard_59,
Hidrated_57, Beem_59, Klein_59, Hughesyang_57, NihilNomen_58, Minerva_65,
HokkenD_52, KashFlow_52, Constella_49, Bagrid_58, ThreeRngTarjay_57,
Redno2_56, BAKA_63, Duke13_62, Optimus_64, Wanda_65, Marleymoo_58,
Dove_54, Hannaconda_55, Dallas_58, Odette_57, Zelink_57, Phoebus_58
• Track 77 : Omega_61, Gonephishing_59
• Track 78 : Squint_56
• Track 79 : Shaboozey_53, Nibley_51
• Track 80 : Thibault_51, Xiaokay_52, Rearden_53, Pound_59, Bobby_58, Kalah2_55
• Track 81 : Porcelain_55, Superphikiman_57, Ariel_56, MiaZeal_56, Courthouse_56,
Lucky2013_57
• Track 82 : Nekros_56, DmpstrDiver_58, Yeet_57
• Track 83 : LittleE_59
• Track 84 : BronnyJames_53
• Track 85 : Schatzie_54
• Track 86 : Rose5_33, Acquire49_33, Enceladus_33, DirkDirk_33,
OhShagHennessy_33, Calm_33, CicholasNage_33, Poochiewood_33, Zaria_33,
Wamburgrxpress_33, JoeDirt_33, LeBron_33, Halena_33, Wyatt2_33,
Appletree2_33, Tyson_33, MAckerman_33, UPIE_33, Silverleaf_33,
AvadaKedavra_33
• Track 87 : Netyap_36, Winky_36, Vetrix_36, Miley16_36, BobsGarage_36,
Faith1_36, Gabriela_36, DrSeegs_36, Finemlucis_36, Itos_36, SoJulia_37,
Breezona_36, BigCheese_36
• Track 88 : Underpass_36, Gardann_36, OverPar_37, Loadrie_36, Nicholasp3_36,
LilDestine_36
• Track 89 : Baoshan_35, ZhongYanYuan_35, DanBing_36
• Track 90 : Wigglewiggle_36, Wilder_36, Soap141_36, Kahlid_36, MkaliMitinis3_36,
Hafay_36, Lynnae_36, Sarshaun_36
• Track 91 : Lewan_36, Crossroads_36, GuuelaD_36
• Track 92 : Rossetti_36, Zakai_36
• Track 93 : Archie_36
• Track 94 : DHan_37, Claus_36
• Track 95 : Rumpelstiltskin_36
• Track 96 : Tourach_36
• Track 97 : Bazzle_36
• Track 98 : Samty_34, Clautastrophe_34, MsGreen_34, Kingsolomon_34,
TriFive_34, Jobypre_34, Nicholas_34, Lumos_34, Moostard_34, Snenia_34,
Finnry_34, Red305_34, Jubie_34, Bellis_34

- Track 99 : LiyuLake_34, Ellson_34, KirDoubleO7_32, BourbonZero_33, Krypton555_34
- Track 100 : MiniLon_34, MiniMac_34, Lolly9_34
- Track 101 : DuncansLeg_34
- Track 102 : Whirlwind_35
- Track 103 : Bromden_35
- Track 104 : Quby_33, Douge_33
- Track 105 : ChutneyChips_33
- Track 106 : FarmResident_33, PYPDinur_33, BrainDrainer_34, Sheng711_33, Douzhi_33
- Track 107 : Chaser_33
- Track 108 : DyoEdafos_34, Kropertea_33
- Track 109 : Aegeus_39, Baudelaire_39
- Track 110 : RoseMarie_3, TpudiCK_3, TyDawg_3, SlimJimmy_3, Diminimus_4, PegLeg_3, Dulcita_4, LilhomieP_3, Auspice_3, KleverKiS_3, FreakyGoo_4, Skinny_4, Izel_4, IPhane7_3, Bricole_3, Bongo_3, Glaske16_4
- Track 111 : Reindeer_3
- Track 112 : MrMagoo_4, Estes_4, GardenSalsa_4
- Track 113 : GenevaB15_4, Aziz_4
- Track 114 : Rey_3
- Track 115 : Nanosmite_3
- Track 116 : Stellammi_56
- Track 117 : Nebkiss_43
- Track 118 : Gaia_43
- Track 119 : Ponzi_63
- Track 120 : Kumao_4
- Track 121 : Yappy_125
- Track 122 : Magritte_78

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

The start number called the most often in the published annotations is 54, it was called in 206 of the 371 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_42, ABCat_38, Acquire49_33, Adnama_41, Aegeus_39, Amao_40, AmericanBeauty_40, Appletree2_33, Archie_36, Argent26_40, Asriel_37, AvadaKedavra_33, BaboJay_38, BadStone_39, Balomoji_38, Baoshan_35, Barbarian_37, Bask21_38, Baudelaire_39, Bazzle_36, Becksu_38, Bellis_34, Bench_41, BigBubba_39, BigCheese_36, BilboSwaggins_39, Bimmel_68, BobsGarage_36, Bogg_39, BourbonZero_33, BrainDrainer_34, Breezona_36, Brewer_38, Bromden_35, Bruin_39, Buck_37, Budgie_42, BugsBunny_36, Cactus_39, Calm_33, Chaser_33, ChosenOne_38, ChotaBhai_39, ChutneyChips_33, CicholasNage_33, Cjw1_39, Claus_36, Clautastrophe_34, Command613_39, Contagion_39, Cookies_39, Crossroads_36, CrystalP_40, Czyszczonek_40, DHan_37, Daikon_39, DanBing_36, DirkDirk_33, DoctorDiddles_39, Douge_33, Douzhi_33, DrDrey_41, DrSeegs_36, Dumbo_39, DuncansLeg_34, Dusk_39, DyoEdafos_34, Easy2Say_40, Elite2014_37, Ellson_34, Elph10_39, Emmina_39, Enceladus_33, Eureka_39, FairyPath_38, Faith1_36, FarmResident_33, Filch_41, Finemlucis_36, Finnry_34, FireRed_38, Flypotenuse_36, FoghornLeghorn_38,

Gabriela_36, Gage_40, Gardann_36, Gator_37, Gemini_41, Glexan_37, Goku_39, GoldenSpark_40, Goldilocks_39, GooberAzure_40, Greep_39, GuuelaD_36, Hafay_36, Halena_33, HanKaySha_40, Harella_39, Henry_40, Highbury_40, Holt_40, Hoonter_40, Hopey_41, HufflyPuff_37, IHOP_38, Icee_37, Inca_37, Itos_36, JeTaime_41, Jobypre_34, JoeDirt_33, Jubie_34, Kahlid_36, Kanye_40, Kimchi_40, Kingsolomon_34, KirDoubleO7_32, Kostya_39, Kropertea_33, Krypton555_34, LeBron_33, Lewan_36, LilDestine_36, Lilac_40, Lilizi_40, Lilpickle_37, LiyuLake_34, Loadrie_36, Lolly9_34, Lumos_34, Lynnae_36, MAckerman_33, MISSy_37, MPhalcon_37, MadamMonkfish_39, Manda_39, Marshmallow_39, Maxxinista_39, Miley16_36, Mindy_40, MiniLon_34, MiniMac_34, Miniwave_38, Misfit_38, MkaliMitinis3_36, Moldemort_39, MollyToe_38, Moostard_34, Mosby_38, MsGreen_34, Murica_37, Murphy_39, Myrale_40, Nala_38, NelitzaMV_38, Netyap_36, Nicholas_34, Nicholasp3_36, Nimrod_38, NoSleep_39, NonchalantPear_39, OhShagHennessy_33, OrionPax_40, OverPar_37, PYPDinur_33, PaddyBaddy_40, Palpatine_38, Paperbeatsrock_40, Pat3_39, Petra64142_40, Phaja_38, Pharsalus_39, PhatBacter_38, Phaux_37, Phrux_39, Policronamos_38, Ponzi_63, Poochiewood_33, Porky_38, Ptowny_40, Pumpkin_42, Quallification_39, Quby_33, Rakim_39, Red305_34, Rimmer_37, RiverMonster_38, Rose5_33, Rossetti_36, Rumpelstiltskin_36, Saints25_40, Samty_34, Sarshaun_36, Sassay_37, ShamWow_40, Sheng711_33, ShereKhan_40, Silverleaf_33, Simpliphy_40, SirDuracell_38, Snenia_34, SoJulia_37, Soap141_36, SophKB_38, Sotrice96_38, Spooks_70, Stank_41, Stark_39, StellaBean_38, StolenFromERC_40, StormChicken_38, Success_71, TBrady12_40, Tarkin_40, TeamEdward_38, TeardropMSU_37, Teaspoon_40, Terminus_38, Thimble_39, Thresher_40, Tomaszewski_38, Toto_39, Tourach_36, Traaww1_36, TriFive_34, Tuco_41, Tyson_33, UPIE_33, Ukulele_39, Underpass_36, Vetrix_36, Wamburggrxpress_33, Wiggig_41, Wigglewiggle_36, Wilder_36, Willez_37, Winky_36, Wyatt2_33, Xandras_40, YassJohnny_39, Youngblood_38, Zakai_36, Zaria_33, ZhongYanYuan_35, xkcd_39,

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

- Whirlwind_35,

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

- 40AC_35, Abscondus_60, Alsaber_50, Amela_49, Anaysia_34, Anon_32, Anthony_32, Aphelion_60, Ariel_56, Arissanae_34, Auspice_3, Aziz_4, BAKA_63, Bachita_62, Bagrid_58, Bantam_42, Battleship_35, Beem_59, Bellris_31, Bobby_58, Bombitas_56, Bongo_3, Boohoo_34, Bricole_3, BronnyJames_53, BrutonGaster_49, CRB1_32, Cardigan_63, Celery_52, Celia_48, ClubL_61, CogOmlette_31, Conan_49, Constella_49, Courthouse_56, Cucurbita_62, Culver_62, Dallas_58, Daredevil_40, Darrell_34, DatBoi_43, DekHockey33_34, Dexers_48, Diminimus_4, DmpstrDiver_58, Dove_54, Duke13_62, Dulcita_4, Dusty_60, EagleEye_35, Ejimix_59, ElGato_49, Elle_32, Engineer_62, Epsocamisio_34, EricMillard_59, Estes_4, FreakyGoo_4, Fryberger_27, Fryberger_64, Gaia_43, Gail_34, GardenSalsa_4, Geeche_59, GenevaB15_4, Glaske16_4, Gonephishing_59, Guey18_31, Guey18_70, Halley_59, Hannaconda_55, Hidrated_57, HokkenD_52, Hughesyang_57, IPhane7_3, Itza_48, Izel_4, JSwag_34, Jeeves_33, Jhitchelle_48, JuicyJay_58, Kaine_49, Kalah2_55, KashFlow_52, KatherineG_34, Keelan_24, Keelan_63, Keziacharles14_34, Klein_59, KleverKiS_3, Kudrefre_37, Kumao_4, LadyBird_32, LastResort_34, LilJank_38, LilhomieP_3, LittleE_59, Looper_35, Lozinak_61, Luchador_36, Lucky2013_57, Lucyedi_34, Magritte_78, Marleymoo_58, MiaZeal_56, MinecraftSteve_35, Minerva_65, Minispark_31, Miskis_58, Mollymur_44, MrMagoo_4, Nanodon_50, Nanosmite_3, Nebkiss_43, Nebulosus_34, Nedarya_33,

Nekros_56, Neville_38, Nibley_51, NihilNomen_58, Norvs_61, Octobien14_39, Odette_57, Omega_61, OneUp_54, Oofda_34, Optimus_64, PainterBoy_34, Pavo_50, PegLeg_3, PhinkBoden_60, Phoebus_58, Porcelain_55, Pound_59, Provolone_50, Rabbitrun_40, Rahalelujah_32, Ravana_35, ReMo_34, Rearden_53, Redno2_56, Reindeer_3, Remus_34, Rey_3, Ronaldo_30, Ronaldo_67, Rosalind_34, RoseMarie_3, Saftant_48, Schatzie_54, Sephiroth_38, Shaboozey_53, ShayRa_35, Skinny_4, SlimJimmy_3, Smoothie_62, SororFago_34, Soups_34, SpeedDemon_440, Speedwell_53, Squint_56, Stellammi_56, Strosahl_34, Sudan_50, Sunhee_32, SunkenRoot_50, Superphikiman_57, Switzerland_34, Syleon_38, Thibault_51, ThreeRngTarjay_57, Toaka_32, Toniann_61, Towmatter_39, TpudiCK_3, Trax_38, TyDawg_3, Urza_48, Vanisoa_33, Vanseggelen_54, Verabelle_53, Verse_49, VieEnRose_48, Volt_29, Volt_67, Waits_34, Wanda_65, Warrior24_34, WilliamBoone_60, WorldCup_31, Xiaokay_52, Yappy_125, Yeet_57, Yosif_51, ZamZam_51, Zelink_57, Ziko_30, Ziko_67, phiCAM_46,

Summary by start number:

Start 11:

- Found in 21 of 446 (4.7%) of genes in pham
- Manual Annotations of this start: 3 of 371
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Battleship_35 (A15), Nebulosus_34 (A15), Remus_34 (A15),

Start 13:

- Found in 1 of 446 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Switzerland_34 (A15),

Start 24:

- Found in 3 of 446 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Nedarya_33 (A15),

Start 33:

- Found in 2 of 446 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gaia_43 (X),

Start 38:

- Found in 17 of 446 (3.8%) of genes in pham
- Manual Annotations of this start: 2 of 371
- Called 17.6% of time when present
- Phage (with cluster) where this start called: BronnyJames_53 (J), Squint_56 (J), Whirlwind_35 (L3),

Start 44:

- Found in 1 of 446 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Anthony_32 (A20),

Start 45:

- Found in 1 of 446 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_63 (DD),

Start 46:

- Found in 6 of 446 (1.3%) of genes in pham
- Manual Annotations of this start: 6 of 371
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger_27 (DP), Guey18_31 (DP), Keelan_24 (DP), Ronaldo_30 (DP), Volt_29 (DP), Ziko_30 (DP),

Start 47:

- Found in 6 of 446 (1.3%) of genes in pham
- Manual Annotations of this start: 6 of 371
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger_64 (DP), Guey18_70 (DP), Keelan_63 (DP), Ronaldo_67 (DP), Volt_67 (DP), Ziko_67 (DP),

Start 48:

- Found in 26 of 446 (5.8%) of genes in pham
- Manual Annotations of this start: 23 of 371
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Abscondus_60 (CQ1), Aphelion_60 (CQ1), Bachita_62 (CQ1), BrutonGaster_49 (CQ2), ClubL_61 (CQ1), Cucurbita_62 (CQ1), Culver_62 (CQ1), Dusty_60 (CQ1), Engineer_62 (CQ1), Geeche_59 (CQ1), Kudrefre_37 (DU1), Lozinak_61 (CQ1), Magritte_78 (singleton), Miskis_58 (CQ1), Norvs_61 (CQ1), Octobien14_39 (DU1), OneUp_54 (CQ2), PhinkBoden_60 (CQ1), Rabbitrun_40 (DU2), Sephiroth_38 (DU1), Smoothie_62 (CQ1), Syleon_38 (DU1), Toniann_61 (CQ1), Verabelle_53 (BD3), WilliamBoone_60 (CQ1),

Start 50:

- Found in 9 of 446 (2.0%) of genes in pham
- Manual Annotations of this start: 8 of 371
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_42 (DL), Daredevil_40 (DL), DatBoi_43 (DL), LilJank_38 (DU2), Mollymur_44 (DL), Neville_38 (DU2), SpeedDemon_440 (DL), Towmatter_39 (DL), Trax_38 (DU2),

Start 51:

- Found in 2 of 446 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Yosif_51 (BD3),

Start 52:

- Found in 5 of 446 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 371
- Called 40.0% of time when present

- Phage (with cluster) where this start called: Kumao_4 (singleton), PainterBoy_34 (A16),

Start 53:

- Found in 25 of 446 (5.6%) of genes in pham
- Manual Annotations of this start: 12 of 371
- Called 56.0% of time when present
- Phage (with cluster) where this start called: Alsaber_50 (BD3), Amela_49 (BD3), Celia_48 (BD6), Conan_49 (BD3), Dexers_48 (BD3), ElGato_49 (BD3), Itza_48 (BD6), Nanodon_50 (BD1), Saftant_48 (BD3), Speedwell_53 (BD3), Urza_48 (BD6), VieEnRose_48 (BD6), ZamZam_51 (BD3), phiCAM_46 (BD3),

Start 54:

- Found in 247 of 446 (55.4%) of genes in pham
- Manual Annotations of this start: 206 of 371
- Called 99.6% of time when present
- Phage (with cluster) where this start called: 244_42 (E), ABCat_38 (E), Acquire49_33 (L1), Adnama_41 (E), Aegeus_39 (L5), Amao_40 (E), AmericanBeauty_40 (E), Appletree2_33 (L1), Archie_36 (L2), Argent26_40 (E), Asriel_37 (E), AvadaKedavra_33 (L1), BaboJay_38 (E), BadStone_39 (E), Balomoji_38 (E), Baoshan_35 (L2), Barbarian_37 (E), Bask21_38 (E), Baudelaire_39 (L5), Bazzle_36 (L2), Becksu_38 (E), Bellis_34 (L3), Bench_41 (E), BigBubba_39 (E), BigCheese_36 (L2), BilboSwaggins_39 (E), Bimmel_68 (BT), BobsGarage_36 (L2), Bogg_39 (E), BourbonZero_33 (L3), BrainDrainer_34 (L4), Breezona_36 (L2), Brewer_38 (E), Bromden_35 (L4), Bruin_39 (E), Buck_37 (E), Budgie_42 (E), BugsBunny_36 (E), Cactus_39 (E), Calm_33 (L1), Chaser_33 (L4), ChosenOne_38 (E), ChotaBhai_39 (E), ChutneyChips_33 (L4), CicholasNage_33 (L1), Cjw1_39 (E), Claus_36 (L2), Clautastrophe_34 (L3), Command613_39 (E), Contagion_39 (E), Cookies_39 (E), Crossroads_36 (L2), CrystalP_40 (E), Czystoczon1_40 (E), DHan_37 (L2), Daikon_39 (E), DanBing_36 (L2), DirkDirk_33 (L1), DoctorDiddles_39 (E), Douge_33 (L4), Douzhi_33 (L4), DrDrey_41 (E), DrSeegs_36 (L2), Dumbo_39 (E), DuncansLeg_34 (L3), Dusk_39 (E), DyoEdafos_34 (L4), Easy2Say_40 (E), Elite2014_37 (E), Ellson_34 (L3), Elph10_39 (E), Emmina_39 (E), Enceladus_33 (L1), Eureka_39 (E), FairyPath_38 (E), Faith1_36 (L2), FarmResident_33 (L4), Filch_41 (E), Finemlucis_36 (L2), Finnry_34 (L3), FireRed_38 (E), Flypotenuse_36 (E), FoghornLeghorn_38 (E), Gabriela_36 (L2), Gage_40 (E), Gardann_36 (L2), Gator_37 (E), Gemini_41 (E), Glexan_37 (E), Goku_39 (E), GoldenSpark_40 (E), Goldilocks_39 (E), GooberAzure_40 (E), Greep_39 (E), GuuelaD_36 (L2), Hafay_36 (L2), Halena_33 (L1), HankaySha_40 (E), Harella_39 (E), Henry_40 (E), Highbury_40 (E), Holt_40 (E), Hoonter_40 (E), Hopey_41 (E), HuffyPuff_37 (E), IHOP_38 (E), Icee_37 (E), Inca_37 (E), Itos_36 (L2), JeTaime_41 (E), Jobypre_34 (L3), JoeDirt_33 (L1), Jubie_34 (L3), Kahlid_36 (L2), Kanye_40 (E), Kimchi_40 (E), Kingsolomon_34 (L3), KirDoubleO7_32 (L3), Kostya_39 (E), Kropertea_33 (L4), Krypton555_34 (L3), LeBron_33 (L1), Lewan_36 (L2), LilDestine_36 (L2), Lilac_40 (E), Lilizi_40 (E), Lipickle_37 (E), LiyuLake_34 (L3), Loadrie_36 (L2), Lolly9_34 (L3), Lumos_34 (L3), Lynnae_36 (L2), MAckerman_33 (L1), MISSy_37 (E), MPhalcon_37 (E), MadamMonkfish_39 (E), Manda_39 (E), Marshmallow_39 (E), Maxxinista_39 (E), Miley16_36 (L2), Mindy_40 (E), MiniLon_34 (L3), MiniMac_34 (L3), Miniwave_38 (E), Misfit_38 (E), MkaliMitinis3_36 (L2), Moldemort_39 (E), MollyToe_38 (E), Moostard_34 (L3), Mosby_38 (E), MsGreen_34 (L3), Murica_37 (E), Murphy_39 (E), Myrale_40 (E), Nala_38 (E), NelitzaMV_38 (E), Netyap_36 (L2), Nicholas_34 (L3), Nicholasp3_36 (L2), Nimrod_38 (E), NoSleep_39 (E), NonchalantPear_39 (E), OhShagHennessy_33 (L1), OrionPax_40 (E), OverPar_37 (L2), PYPDinur_33 (L4),

PaddyBaddy_40 (E), Palpatine_38 (E), Paperbeatsrock_40 (E), Pat3_39 (E), Petra64142_40 (E), Phaja_38 (E), Pharsalus_39 (E), PhatBacter_38 (E), Phaux_37 (E), Phrux_39 (E), Policronamos_38 (E), Ponzi_63 (singleton), Poochiewood_33 (L1), Porky_38 (E), Ptowny_40 (E), Pumpkin_42 (E), Qualification_39 (E), Quby_33 (L4), Rakim_39 (E), Red305_34 (L3), Rimmer_37 (E), RiverMonster_38 (E), Rose5_33 (L1), Rossetti_36 (L2), Rumpelstiltskin_36 (L2), Saints25_40 (E), Samty_34 (L3), Sarshaun_36 (L2), Sassay_37 (E), ShamWow_40 (E), Sheng711_33 (L4), ShereKhan_40 (E), Silverleaf_33 (L1), Simpliphy_40 (E), SirDuracell_38 (E), Snenia_34 (L3), SoJulia_37 (L2), Soap141_36 (L2), SophKB_38 (E), Sotrice96_38 (E), Spooks_70 (BT), Stank_41 (E), Stark_39 (E), StellaBean_38 (E), StolenFromERC_40 (E), StormChicken_38 (E), Success_71 (BT), TBrady12_40 (E), Tarkin_40 (E), TeamEdward_38 (E), TeardropMSU_37 (E), Teaspoon_40 (E), Terminus_38 (E), Thimble_39 (E), Thresher_40 (E), Tomaszewski_38 (E), Toto_39 (E), Tourach_36 (L2), Traaww1_36 (E), TriFive_34 (L3), Tuco_41 (E), Tyson_33 (L1), UPIE_33 (L1), Ukulele_39 (E), Underpass_36 (L2), Vetrrix_36 (L2), Wamburgrxpress_33 (L1), Wiggin_41 (E), Wigglewobble_36 (L2), Wilder_36 (L2), Willez_37 (E), Winky_36 (L2), Wyatt2_33 (L1), Xandras_40 (E), YassJohnny_39 (E), Youngblood_38 (E), Zakai_36 (L2), Zaria_33 (L1), ZhongYanYuan_35 (L2), xkcd_39 (E),

Start 55:

- Found in 74 of 446 (16.6%) of genes in pham
- Manual Annotations of this start: 48 of 371
- Called 73.0% of time when present
- Phage (with cluster) where this start called: 40AC_35 (A17), Anaysia_34 (A15), Anon_32 (A15), Arissanae_34 (A9), Auspice_3 (M1), Aziz_4 (M2), Bongo_3 (M1), Boohoo_34 (A15), Bricole_3 (M1), CRB1_32 (A2), Darrell_34 (A9), Diminimus_4 (M1), Dulcita_4 (M1), EagleEye_35 (A16), Epsocamisio_34 (A15), Estes_4 (M2), FreakyGoo_4 (M1), Gail_34 (A14), GardenSalsa_4 (M2), GenevaB15_4 (M2), Glaske16_4 (M1), IPhane7_3 (M1), Izel_4 (M1), Jeeves_33 (A14), KatherineG_34 (A15), Keziacharles14_34 (A9), KleverKiS_3 (M1), LastResort_34 (A15), LilhomieP_3 (M1), Looper_35 (A15), Luchador_36 (A14), Lucyedi_34 (A16), MinecraftSteve_35 (A15), MrMagoo_4 (M2), Nanosmite_3 (M3), PegLeg_3 (M1), Rahalelujah_32 (A9), ReMo_34 (A15), Reindeer_3 (M1), Rey_3 (M2), Rosalind_34 (A15), RoseMarie_3 (M1), ShayRa_35 (A15), Skinny_4 (M1), SlimJimmy_3 (M1), SororFago_34 (A14), Soups_34 (A15), Strosahl_34 (A15), Sunhee_32 (A14), Toaka_32 (A9), TpudiCK_3 (M1), TyDawg_3 (M1), Vanisoa_33 (A9), Yappy_125 (singleton),

Start 57:

- Found in 42 of 446 (9.4%) of genes in pham
- Manual Annotations of this start: 33 of 371
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_63 (J), Bagrid_58 (J), Beem_59 (J), Bobby_58 (J), Bombitas_56 (J), Constella_49 (J), Dallas_58 (J), DmpstrDiver_58 (J), Dove_54 (J), Duke13_62 (J), Ejimix_59 (J), EricMillard_59 (J), Gonephishing_59 (J), Halley_59 (J), Hannaconda_55 (J), Hidrated_57 (J), HokkenD_52 (J), Hughesyang_57 (J), JuicyJay_58 (J), Kalah2_55 (J), KashFlow_52 (J), Klein_59 (J), LittleE_59 (J), Marleymoo_58 (J), Minerva_65 (J), Nekros_56 (J), NihilNomen_58 (J), Odette_57 (J), Omega_61 (J), Optimus_64 (J), Phoebus_58 (J), Pound_59 (J), Rearden_53 (J), Redno2_56 (J), Schatzie_54 (J), Stellammi_56 (UNK), Thibault_51 (J), ThreeRngTarjay_57 (J), Wanda_65 (J), Xiaokay_52 (J), Yeet_57 (J), Zelink_57 (J),

Start 58:

- Found in 3 of 446 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Nebkiss_43 (X),

Start 59:

- Found in 10 of 446 (2.2%) of genes in pham
- Manual Annotations of this start: 6 of 371
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Ariel_56 (J), Courthouse_56 (J), Lucky2013_57 (J), MiaZeal_56 (J), Nibley_51 (J), Porcelain_55 (J), Shaboozey_53 (J), Superphikiman_57 (J),

Start 61:

- Found in 62 of 446 (13.9%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 8.1% of time when present
- Phage (with cluster) where this start called: Celery_52 (BD3), Jhitchelle_48 (BD3), Pavo_50 (BD3), SunkenRoot_50 (BD3), Vanseggelen_54 (BD3),

Start 62:

- Found in 21 of 446 (4.7%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 9.5% of time when present
- Phage (with cluster) where this start called: Kaine_49 (BD3), Sudan_50 (BD3),

Start 63:

- Found in 34 of 446 (7.6%) of genes in pham
- Manual Annotations of this start: 2 of 371
- Called 5.9% of time when present
- Phage (with cluster) where this start called: LadyBird_32 (A2), Provolone_50 (BD3),

Start 65:

- Found in 81 of 446 (18.2%) of genes in pham
- Manual Annotations of this start: 5 of 371
- Called 8.6% of time when present
- Phage (with cluster) where this start called: DekHockey33_34 (A15), Elle_32 (A15), JSwag_34 (A15), Oofda_34 (A15), Ravana_35 (A15), Waits_34 (A15), Warrior24_34 (A15),

Start 72:

- Found in 35 of 446 (7.8%) of genes in pham
- Manual Annotations of this start: 1 of 371
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Verse_49 (BD3),

Start 80:

- Found in 10 of 446 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Bellris_31 (A9), CogOmlette_31 (A9), Minispark_31 (A9), WorldCup_31 (A9),

Summary by clusters:

There are 31 clusters represented in this pham: singleton, DD, L1, DL, BT, M1, M3, M2, DP, A15, A14, A17, A16, BD6, BD1, BD3, A9, CQ2, CQ1, A2, E, J, L4, L5, L2, L3, DU1, X, UNK, DU2, A20,

Info for manual annotations of cluster A14:

- Start number 55 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 11 was manually annotated 3 times for cluster A15.
- Start number 13 was manually annotated 1 time for cluster A15.
- Start number 24 was manually annotated 1 time for cluster A15.
- Start number 55 was manually annotated 13 times for cluster A15.
- Start number 65 was manually annotated 5 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 52 was manually annotated 1 time for cluster A16.
- Start number 55 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 63 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 44 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A9:

- Start number 55 was manually annotated 6 times for cluster A9.

Info for manual annotations of cluster BD1:

- Start number 53 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD3:

- Start number 51 was manually annotated 1 time for cluster BD3.
- Start number 53 was manually annotated 7 times for cluster BD3.
- Start number 61 was manually annotated 1 time for cluster BD3.
- Start number 62 was manually annotated 1 time for cluster BD3.
- Start number 63 was manually annotated 1 time for cluster BD3.
- Start number 72 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD6:

- Start number 53 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BT:

- Start number 54 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster CQ1:

- Start number 48 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 48 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DL:

- Start number 50 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DP:

- Start number 46 was manually annotated 6 times for cluster DP.
- Start number 47 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster DU1:

- Start number 48 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 48 was manually annotated 1 time for cluster DU2.
- Start number 50 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster E:

- Start number 54 was manually annotated 128 times for cluster E.

Info for manual annotations of cluster J:

- Start number 38 was manually annotated 1 time for cluster J.
- Start number 57 was manually annotated 33 times for cluster J.
- Start number 59 was manually annotated 6 times for cluster J.

Info for manual annotations of cluster L1:

- Start number 54 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 54 was manually annotated 31 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 38 was manually annotated 1 time for cluster L3.
- Start number 54 was manually annotated 18 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 54 was manually annotated 4 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 54 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M1:

- Start number 55 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:

- Start number 55 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 55 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster X:

- Start number 33 was manually annotated 1 time for cluster X.
- Start number 58 was manually annotated 1 time for cluster X.

Gene Information:

Gene: 244_42 Start: 34465, Stop: 34079, Start Num: 54

Candidate Starts for 244_42:

(Start: 54 @34465 has 206 MA's), (82, 34363), (87, 34339), (121, 34228), (124, 34195), (128, 34165),

Gene: 40AC_35 Start: 26822, Stop: 27181, Start Num: 55

Candidate Starts for 40AC_35:

(12, 26735), (Start: 55 @26822 has 48 MA's), (Start: 63 @26840 has 2 MA's), (Start: 65 @26846 has 5 MA's), (92, 26975), (96, 26996),

Gene: ABCat_38 Start: 34630, Stop: 34244, Start Num: 54

Candidate Starts for ABCat_38:

(Start: 54 @34630 has 206 MA's), (82, 34528), (87, 34504), (121, 34393), (124, 34360), (128, 34330),

Gene: Abscondus_60 Start: 40984, Stop: 40649, Start Num: 48

Candidate Starts for Abscondus_60:

(Start: 48 @40984 has 23 MA's), (Start: 61 @40960 has 1 MA's), (Start: 62 @40957 has 1 MA's), (77, 40888), (86, 40852), (98, 40786), (99, 40783), (124, 40708), (127, 40690), (129, 40675),

Gene: Acquire49_33 Start: 29496, Stop: 29068, Start Num: 54

Candidate Starts for Acquire49_33:

(Start: 54 @29496 has 206 MA's), (Start: 65 @29472 has 5 MA's), (90, 29355), (98, 29307), (129, 29178),

Gene: Adnama_41 Start: 34470, Stop: 34084, Start Num: 54

Candidate Starts for Adnama_41:

(Start: 54 @34470 has 206 MA's), (82, 34368), (87, 34344), (121, 34233), (124, 34200), (128, 34170),

Gene: Aegeus_39 Start: 33436, Stop: 33011, Start Num: 54

Candidate Starts for Aegeus_39:

(Start: 54 @33436 has 206 MA's), (84, 33322), (95, 33265), (110, 33211), (124, 33154), (137, 33022),

Gene: Alsaber_50 Start: 35678, Stop: 36004, Start Num: 53

Candidate Starts for Alsaber_50:

(Start: 53 @35678 has 12 MA's), (Start: 62 @35696 has 1 MA's), (Start: 72 @35744 has 1 MA's), (76, 35756), (90, 35819), (97, 35849), (128, 35972),

Gene: Amao_40 Start: 33851, Stop: 33465, Start Num: 54

Candidate Starts for Amao_40:

(2, 34055), (Start: 54 @33851 has 206 MA's), (82, 33749), (87, 33725), (121, 33614), (124, 33581), (128, 33551),

Gene: Amela_49 Start: 36527, Stop: 36853, Start Num: 53

Candidate Starts for Amela_49:

(Start: 53 @36527 has 12 MA's), (Start: 61 @36542 has 1 MA's), (Start: 63 @36548 has 2 MA's), (Start: 72 @36593 has 1 MA's), (76, 36605), (77, 36614), (87, 36656), (88, 36659), (97, 36698), (123, 36785), (128, 36821),

Gene: AmericanBeauty_40 Start: 33950, Stop: 33564, Start Num: 54

Candidate Starts for AmericanBeauty_40:

(Start: 54 @33950 has 206 MA's), (82, 33848), (87, 33824), (121, 33713), (124, 33680), (128, 33650),

Gene: Anaysia_34 Start: 23538, Stop: 23894, Start Num: 55

Candidate Starts for Anaysia_34:

(Start: 11 @23448 has 3 MA's), (43, 23520), (Start: 55 @23538 has 48 MA's), (Start: 61 @23550 has 1 MA's), (Start: 65 @23562 has 5 MA's), (74, 23607), (87, 23664), (90, 23676), (101, 23739), (126, 23847), (129, 23865),

Gene: Anon_32 Start: 23487, Stop: 23831, Start Num: 55

Candidate Starts for Anon_32:

(10, 23394), (Start: 55 @23487 has 48 MA's), (Start: 61 @23499 has 1 MA's), (Start: 65 @23511 has 5 MA's), (Start: 72 @23550 has 1 MA's), (88, 23616), (90, 23625), (126, 23787),

Gene: Anthony_32 Start: 23232, Stop: 23600, Start Num: 44

Candidate Starts for Anthony_32:

(Start: 44 @23232 has 1 MA's), (Start: 55 @23250 has 48 MA's), (73, 23319), (94, 23418), (96, 23424), (129, 23568),

Gene: Aphelion_60 Start: 41253, Stop: 40918, Start Num: 48

Candidate Starts for Aphelion_60:

(Start: 48 @41253 has 23 MA's), (Start: 61 @41229 has 1 MA's), (Start: 62 @41226 has 1 MA's), (77, 41157), (86, 41121), (98, 41055), (99, 41052), (124, 40977), (127, 40959), (129, 40944),

Gene: Appletree2_33 Start: 29439, Stop: 29011, Start Num: 54

Candidate Starts for Appletree2_33:

(Start: 54 @29439 has 206 MA's), (Start: 65 @29415 has 5 MA's), (90, 29298), (98, 29250), (129, 29121),

Gene: Archie_36 Start: 31163, Stop: 30699, Start Num: 54

Candidate Starts for Archie_36:

(Start: 54 @31163 has 206 MA's), (81, 31064), (82, 31058), (90, 31022), (93, 31004), (124, 30878),

Gene: Argent26_40 Start: 33953, Stop: 33567, Start Num: 54

Candidate Starts for Argent26_40:

(Start: 54 @33953 has 206 MA's), (82, 33851), (87, 33827), (121, 33716), (124, 33683), (128, 33653),

Gene: Ariel_56 Start: 42419, Stop: 42060, Start Num: 59

Candidate Starts for Ariel_56:

(Start: 38 @42458 has 2 MA's), (Start: 59 @42419 has 6 MA's), (Start: 65 @42404 has 5 MA's), (106, 42206),

Gene: Arissanae_34 Start: 26502, Stop: 26858, Start Num: 55

Candidate Starts for Arissanae_34:

(16, 26415), (Start: 55 @26502 has 48 MA's), (Start: 63 @26520 has 2 MA's), (Start: 65 @26526 has 5 MA's),

Gene: Asriel_37 Start: 32807, Stop: 32421, Start Num: 54

Candidate Starts for Asriel_37:

(Start: 54 @32807 has 206 MA's), (82, 32705), (87, 32681), (121, 32570), (124, 32537), (128, 32507),

Gene: Auspice_3 Start: 1873, Stop: 1496, Start Num: 55

Candidate Starts for Auspice_3:

(Start: 55 @1873 has 48 MA's), (78, 1783), (101, 1669), (121, 1591),

Gene: AvadaKedavra_33 Start: 29506, Stop: 29078, Start Num: 54

Candidate Starts for AvadaKedavra_33:

(Start: 54 @29506 has 206 MA's), (Start: 65 @29482 has 5 MA's), (90, 29365), (98, 29317), (129, 29188),

Gene: Aziz_4 Start: 1899, Stop: 1510, Start Num: 55

Candidate Starts for Aziz_4:

(Start: 55 @1899 has 48 MA's), (Start: 61 @1887 has 1 MA's), (Start: 65 @1875 has 5 MA's), (71, 1836), (103, 1674),

Gene: BAKA_63 Start: 46516, Stop: 46166, Start Num: 57

Candidate Starts for BAKA_63:

(Start: 57 @46516 has 33 MA's), (64, 46504), (66, 46498), (103, 46315), (117, 46288), (124, 46246),

Gene: BaboJay_38 Start: 34028, Stop: 33642, Start Num: 54

Candidate Starts for BaboJay_38:

(Start: 54 @34028 has 206 MA's), (82, 33926), (87, 33902), (121, 33791), (124, 33758), (128, 33728),

Gene: Bachita_62 Start: 41686, Stop: 41351, Start Num: 48

Candidate Starts for Bachita_62:

(Start: 48 @41686 has 23 MA's), (Start: 61 @41662 has 1 MA's), (Start: 62 @41659 has 1 MA's), (77, 41590), (86, 41554), (98, 41488), (99, 41485), (124, 41410), (127, 41392), (129, 41377),

Gene: BadStone_39 Start: 34768, Stop: 34382, Start Num: 54

Candidate Starts for BadStone_39:

(Start: 54 @34768 has 206 MA's), (82, 34666), (87, 34642), (121, 34531), (124, 34498), (128, 34468),

Gene: Bagrid_58 Start: 45849, Stop: 45499, Start Num: 57

Candidate Starts for Bagrid_58:

(Start: 57 @45849 has 33 MA's), (64, 45837), (66, 45831), (103, 45648), (117, 45621), (124, 45579),

Gene: Balomoji_38 Start: 34364, Stop: 33978, Start Num: 54

Candidate Starts for Balomoji_38:

(Start: 54 @34364 has 206 MA's), (82, 34262), (87, 34238), (121, 34127), (124, 34094), (128, 34064),

Gene: Bantam_42 Start: 39895, Stop: 39533, Start Num: 50

Candidate Starts for Bantam_42:

(7, 40018), (34, 39928), (Start: 50 @39895 has 8 MA's), (Start: 65 @39862 has 5 MA's), (69, 39832), (70, 39829), (Start: 72 @39823 has 1 MA's), (91, 39739), (118, 39637),

Gene: Baoshan_35 Start: 30506, Stop: 30036, Start Num: 54

Candidate Starts for Baoshan_35:

(Start: 54 @30506 has 206 MA's), (76, 30428), (77, 30419), (90, 30365), (115, 30269), (124, 30221), (129, 30188),

Gene: Barbarian_37 Start: 32807, Stop: 32421, Start Num: 54

Candidate Starts for Barbarian_37:

(Start: 54 @32807 has 206 MA's), (82, 32705), (87, 32681), (121, 32570), (124, 32537), (128, 32507),

Gene: Bask21_38 Start: 33141, Stop: 32755, Start Num: 54

Candidate Starts for Bask21_38:

(Start: 54 @33141 has 206 MA's), (82, 33039), (87, 33015), (121, 32904), (124, 32871), (128, 32841),

Gene: Battleship_35 Start: 23560, Stop: 24006, Start Num: 11

Candidate Starts for Battleship_35:

(Start: 11 @23560 has 3 MA's), (43, 23632), (Start: 55 @23650 has 48 MA's), (Start: 65 @23674 has 5 MA's), (74, 23719), (87, 23776), (90, 23788), (101, 23851), (126, 23959), (129, 23977),

Gene: Baudelaire_39 Start: 33436, Stop: 33011, Start Num: 54

Candidate Starts for Baudelaire_39:

(Start: 54 @33436 has 206 MA's), (84, 33322), (95, 33265), (110, 33211), (124, 33154), (137, 33022),

Gene: Bazzle_36 Start: 30912, Stop: 30448, Start Num: 54

Candidate Starts for Bazzle_36:

(Start: 54 @30912 has 206 MA's), (90, 30771), (93, 30753), (115, 30675),

Gene: Becksu_38 Start: 34129, Stop: 33743, Start Num: 54

Candidate Starts for Becksu_38:

(Start: 54 @34129 has 206 MA's), (82, 34027), (87, 34003), (121, 33892), (124, 33859), (128, 33829),

Gene: Beem_59 Start: 46415, Stop: 46065, Start Num: 57

Candidate Starts for Beem_59:

(Start: 57 @46415 has 33 MA's), (64, 46403), (66, 46397), (103, 46214), (117, 46187), (124, 46145),

Gene: Bellis_34 Start: 30922, Stop: 30485, Start Num: 54

Candidate Starts for Bellis_34:

(Start: 54 @30922 has 206 MA's), (90, 30781), (123, 30637), (129, 30598),

Gene: Bellris_31 Start: 24788, Stop: 25045, Start Num: 80

Candidate Starts for Bellris_31:

(39, 24662), (Start: 55 @24692 has 48 MA's), (Start: 63 @24710 has 2 MA's), (Start: 65 @24716 has 5 MA's), (80, 24788), (129, 25013),

Gene: Bench_41 Start: 34046, Stop: 33660, Start Num: 54

Candidate Starts for Bench_41:

(Start: 54 @34046 has 206 MA's), (82, 33944), (87, 33920), (121, 33809), (124, 33776), (128, 33746),

Gene: BigBubba_39 Start: 33709, Stop: 33323, Start Num: 54

Candidate Starts for BigBubba_39:

(2, 33913), (Start: 54 @33709 has 206 MA's), (82, 33607), (87, 33583), (121, 33472), (124, 33439), (128, 33409),

Gene: BigCheese_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for BigCheese_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: BilboSwaggins_39 Start: 34638, Stop: 34252, Start Num: 54

Candidate Starts for BilboSwaggins_39:

(Start: 54 @34638 has 206 MA's), (82, 34536), (87, 34512), (121, 34401), (124, 34368), (128, 34338),

Gene: Bimmel_68 Start: 45702, Stop: 45361, Start Num: 54

Candidate Starts for Bimmel_68:

(Start: 54 @45702 has 206 MA's), (Start: 72 @45639 has 1 MA's), (83, 45594), (103, 45492),

Gene: Bobby_58 Start: 45361, Stop: 45011, Start Num: 57

Candidate Starts for Bobby_58:

(Start: 57 @45361 has 33 MA's), (64, 45349), (66, 45343), (103, 45160), (124, 45091),

Gene: BobsGarage_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for BobsGarage_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: Bogg_39 Start: 33378, Stop: 32992, Start Num: 54

Candidate Starts for Bogg_39:

(Start: 54 @33378 has 206 MA's), (82, 33276), (87, 33252), (121, 33141), (124, 33108), (128, 33078),

Gene: Bombitas_56 Start: 46010, Stop: 45660, Start Num: 57

Candidate Starts for Bombitas_56:

(Start: 57 @46010 has 33 MA's), (64, 45998), (66, 45992), (103, 45809), (117, 45782), (124, 45740),

Gene: Bongo_3 Start: 1873, Stop: 1496, Start Num: 55

Candidate Starts for Bongo_3:

(Start: 55 @1873 has 48 MA's), (78, 1783), (101, 1669), (121, 1591),

Gene: Boohoo_34 Start: 23538, Stop: 23894, Start Num: 55

Candidate Starts for Boohoo_34:

(Start: 11 @23448 has 3 MA's), (43, 23520), (Start: 55 @23538 has 48 MA's), (Start: 61 @23550 has 1 MA's), (Start: 65 @23562 has 5 MA's), (74, 23607), (87, 23664), (90, 23676), (101, 23739), (126, 23847), (129, 23865),

Gene: BourbonZero_33 Start: 30875, Stop: 30438, Start Num: 54

Candidate Starts for BourbonZero_33:

(23, 30932), (Start: 38 @30905 has 2 MA's), (Start: 54 @30875 has 206 MA's), (90, 30734), (123, 30590), (129, 30551),

Gene: BrainDrainer_34 Start: 29766, Stop: 29308, Start Num: 54

Candidate Starts for BrainDrainer_34:

(17, 29835), (22, 29817), (Start: 54 @29766 has 206 MA's), (70, 29706), (76, 29688), (124, 29484), (129, 29451), (136, 29352),

Gene: Breezona_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for Breezona_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: Brewer_38 Start: 34211, Stop: 33825, Start Num: 54

Candidate Starts for Brewer_38:

(Start: 54 @34211 has 206 MA's), (82, 34109), (87, 34085), (121, 33974), (124, 33941), (128, 33911),

Gene: Bricole_3 Start: 1872, Stop: 1495, Start Num: 55

Candidate Starts for Bricole_3:

(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: Bromden_35 Start: 30186, Stop: 29725, Start Num: 54

Candidate Starts for Bromden_35:

(32, 30225), (Start: 54 @30186 has 206 MA's), (76, 30108), (124, 29901), (129, 29868), (136, 29769),

Gene: BronnyJames_53 Start: 41173, Stop: 40775, Start Num: 38

Candidate Starts for BronnyJames_53:
(Start: 38 @41173 has 2 MA's), (Start: 59 @41134 has 6 MA's),

Gene: Bruin_39 Start: 34205, Stop: 33819, Start Num: 54
Candidate Starts for Bruin_39:
(Start: 54 @34205 has 206 MA's), (82, 34103), (87, 34079), (121, 33968), (124, 33935), (128, 33905),

Gene: BrutonGaster_49 Start: 39010, Stop: 38663, Start Num: 48
Candidate Starts for BrutonGaster_49:
(Start: 48 @39010 has 23 MA's), (86, 38878),

Gene: Buck_37 Start: 33902, Stop: 33516, Start Num: 54
Candidate Starts for Buck_37:
(Start: 54 @33902 has 206 MA's), (82, 33800), (87, 33776), (121, 33665), (124, 33632), (128, 33602),

Gene: Budgie_42 Start: 33608, Stop: 33219, Start Num: 54
Candidate Starts for Budgie_42:
(Start: 54 @33608 has 206 MA's), (78, 33521), (79, 33518), (84, 33497), (87, 33482), (99, 33419),
(101, 33407), (102, 33401), (128, 33302),

Gene: BugsBunny_36 Start: 33535, Stop: 33149, Start Num: 54
Candidate Starts for BugsBunny_36:
(Start: 54 @33535 has 206 MA's), (82, 33433), (87, 33409), (121, 33298), (124, 33265), (128, 33235),

Gene: CRB1_32 Start: 25014, Stop: 25373, Start Num: 55
Candidate Starts for CRB1_32:
(Start: 55 @25014 has 48 MA's), (Start: 63 @25032 has 2 MA's), (Start: 65 @25038 has 5 MA's), (70, 25074), (82, 25119), (96, 25188), (104, 25233),

Gene: Cactus_39 Start: 33174, Stop: 32788, Start Num: 54
Candidate Starts for Cactus_39:
(Start: 54 @33174 has 206 MA's), (82, 33072), (87, 33048), (121, 32937), (124, 32904), (128, 32874),

Gene: Calm_33 Start: 29511, Stop: 29083, Start Num: 54
Candidate Starts for Calm_33:
(Start: 54 @29511 has 206 MA's), (Start: 65 @29487 has 5 MA's), (90, 29370), (98, 29322), (129, 29193),

Gene: Cardigan_63 Start: 45029, Stop: 44694, Start Num: 45
Candidate Starts for Cardigan_63:
(45, 45029), (80, 44930), (131, 44705),

Gene: Celery_52 Start: 35658, Stop: 35966, Start Num: 61
Candidate Starts for Celery_52:
(Start: 48 @35634 has 23 MA's), (Start: 53 @35643 has 12 MA's), (Start: 61 @35658 has 1 MA's), (66, 35673), (87, 35772), (88, 35775), (90, 35784), (97, 35814), (116, 35856), (128, 35934),

Gene: Celia_48 Start: 32359, Stop: 32676, Start Num: 53
Candidate Starts for Celia_48:
(4, 32185), (8, 32233), (31, 32311), (Start: 53 @32359 has 12 MA's), (114, 32560), (122, 32590), (124, 32608), (127, 32626), (128, 32638), (131, 32662),

Gene: Chaser_33 Start: 29584, Stop: 29126, Start Num: 54

Candidate Starts for Chaser_33:
(15, 29662), (17, 29653), (22, 29635), (Start: 54 @29584 has 206 MA's), (76, 29506), (124, 29302),

Gene: ChosenOne_38 Start: 33171, Stop: 32785, Start Num: 54
Candidate Starts for ChosenOne_38:
(Start: 54 @33171 has 206 MA's), (82, 33069), (87, 33045), (121, 32934), (124, 32901), (128, 32871),

Gene: ChotaBhai_39 Start: 33303, Stop: 32917, Start Num: 54
Candidate Starts for ChotaBhai_39:
(2, 33507), (Start: 54 @33303 has 206 MA's), (82, 33201), (87, 33177), (121, 33066), (124, 33033),
(128, 33003),

Gene: ChutneyChips_33 Start: 29763, Stop: 29305, Start Num: 54
Candidate Starts for ChutneyChips_33:
(15, 29841), (17, 29832), (22, 29814), (Start: 54 @29763 has 206 MA's), (Start: 65 @29739 has 5 MA's), (70, 29703), (76, 29685), (124, 29481),

Gene: CicholasNage_33 Start: 29498, Stop: 29070, Start Num: 54
Candidate Starts for CicholasNage_33:
(Start: 54 @29498 has 206 MA's), (Start: 65 @29474 has 5 MA's), (90, 29357), (98, 29309), (129, 29180),

Gene: Cjw1_39 Start: 34945, Stop: 34559, Start Num: 54
Candidate Starts for Cjw1_39:
(Start: 54 @34945 has 206 MA's), (82, 34843), (87, 34819), (121, 34708), (124, 34675), (128, 34645),

Gene: Claus_36 Start: 30661, Stop: 30191, Start Num: 54
Candidate Starts for Claus_36:
(Start: 54 @30661 has 206 MA's), (77, 30574), (90, 30520), (115, 30424), (124, 30376), (129, 30343),

Gene: Clautastrophe_34 Start: 30921, Stop: 30484, Start Num: 54
Candidate Starts for Clautastrophe_34:
(Start: 54 @30921 has 206 MA's), (90, 30780), (123, 30636), (129, 30597),

Gene: ClubL_61 Start: 41176, Stop: 40841, Start Num: 48
Candidate Starts for ClubL_61:
(Start: 48 @41176 has 23 MA's), (Start: 61 @41152 has 1 MA's), (Start: 62 @41149 has 1 MA's), (77, 41080), (86, 41044), (98, 40978), (99, 40975), (124, 40900), (127, 40882), (129, 40867),

Gene: CogOmlette_31 Start: 24788, Stop: 25045, Start Num: 80
Candidate Starts for CogOmlette_31:
(39, 24662), (Start: 55 @24692 has 48 MA's), (Start: 63 @24710 has 2 MA's), (Start: 65 @24716 has 5 MA's), (80, 24788), (129, 25013),

Gene: Command613_39 Start: 34213, Stop: 33827, Start Num: 54
Candidate Starts for Command613_39:
(Start: 54 @34213 has 206 MA's), (82, 34111), (87, 34087), (121, 33976), (124, 33943), (128, 33913),

Gene: Conan_49 Start: 35348, Stop: 35674, Start Num: 53
Candidate Starts for Conan_49:
(Start: 53 @35348 has 12 MA's), (Start: 61 @35363 has 1 MA's), (Start: 63 @35369 has 2 MA's), (66, 35378), (Start: 72 @35414 has 1 MA's), (76, 35426), (87, 35477), (88, 35480), (97, 35519), (123, 35606), (128, 35642),

Gene: Constella_49 Start: 42452, Stop: 42102, Start Num: 57

Candidate Starts for Constella_49:

(Start: 57 @42452 has 33 MA's), (64, 42440), (66, 42434), (103, 42251), (117, 42224), (124, 42182),

Gene: Contagion_39 Start: 33689, Stop: 33303, Start Num: 54

Candidate Starts for Contagion_39:

(Start: 54 @33689 has 206 MA's), (82, 33587), (87, 33563), (121, 33452), (124, 33419), (128, 33389),

Gene: Cookies_39 Start: 34054, Stop: 33668, Start Num: 54

Candidate Starts for Cookies_39:

(Start: 54 @34054 has 206 MA's), (82, 33952), (87, 33928), (121, 33817), (124, 33784), (128, 33754),

Gene: Courthouse_56 Start: 42823, Stop: 42464, Start Num: 59

Candidate Starts for Courthouse_56:

(Start: 38 @42862 has 2 MA's), (Start: 59 @42823 has 6 MA's), (Start: 65 @42808 has 5 MA's), (106, 42610),

Gene: Crossroads_36 Start: 30676, Stop: 30215, Start Num: 54

Candidate Starts for Crossroads_36:

(Start: 54 @30676 has 206 MA's), (77, 30589), (90, 30535), (115, 30439), (124, 30391),

Gene: CrystalP_40 Start: 34638, Stop: 34252, Start Num: 54

Candidate Starts for CrystalP_40:

(Start: 54 @34638 has 206 MA's), (82, 34536), (87, 34512), (121, 34401), (124, 34368), (128, 34338),

Gene: Cucurbita_62 Start: 42545, Stop: 42210, Start Num: 48

Candidate Starts for Cucurbita_62:

(Start: 48 @42545 has 23 MA's), (Start: 61 @42521 has 1 MA's), (Start: 62 @42518 has 1 MA's), (77, 42449), (86, 42413), (98, 42347), (99, 42344), (124, 42269), (127, 42251), (129, 42236),

Gene: Culver_62 Start: 40856, Stop: 40521, Start Num: 48

Candidate Starts for Culver_62:

(Start: 48 @40856 has 23 MA's), (Start: 61 @40832 has 1 MA's), (Start: 62 @40829 has 1 MA's), (77, 40760), (86, 40724), (98, 40658), (99, 40655), (124, 40580), (127, 40562), (129, 40547),

Gene: Czyszczone1_40 Start: 33930, Stop: 33544, Start Num: 54

Candidate Starts for Czyszczone1_40:

(Start: 54 @33930 has 206 MA's), (82, 33828), (87, 33804), (121, 33693), (124, 33660), (128, 33630),

Gene: DHan_37 Start: 30598, Stop: 30128, Start Num: 54

Candidate Starts for DHan_37:

(Start: 54 @30598 has 206 MA's), (77, 30511), (90, 30457), (115, 30361), (124, 30313), (129, 30280),

Gene: Daikon_39 Start: 34385, Stop: 33999, Start Num: 54

Candidate Starts for Daikon_39:

(Start: 54 @34385 has 206 MA's), (82, 34283), (87, 34259), (121, 34148), (124, 34115), (128, 34085),

Gene: Dallas_58 Start: 45336, Stop: 44986, Start Num: 57

Candidate Starts for Dallas_58:

(Start: 57 @45336 has 33 MA's), (64, 45324), (66, 45318), (103, 45135), (117, 45108), (124, 45066),

Gene: DanBing_36 Start: 30502, Stop: 30032, Start Num: 54

Candidate Starts for DanBing_36:

(Start: 54 @30502 has 206 MA's), (76, 30424), (77, 30415), (90, 30361), (115, 30265), (124, 30217), (129, 30184),

Gene: Daredevil_40 Start: 36674, Stop: 36315, Start Num: 50

Candidate Starts for Daredevil_40:

(Start: 50 @36674 has 8 MA's), (69, 36611), (70, 36608), (77, 36581), (81, 36569), (90, 36527), (118, 36419), (121, 36410), (122, 36395), (124, 36377),

Gene: Darrell_34 Start: 26216, Stop: 26572, Start Num: 55

Candidate Starts for Darrell_34:

(Start: 55 @26216 has 48 MA's), (Start: 63 @26234 has 2 MA's), (Start: 65 @26240 has 5 MA's), (80, 26312), (87, 26345), (103, 26429),

Gene: DatBoi_43 Start: 39944, Stop: 39582, Start Num: 50

Candidate Starts for DatBoi_43:

(Start: 50 @39944 has 8 MA's), (Start: 65 @39911 has 5 MA's), (69, 39881), (70, 39878), (91, 39788), (118, 39686),

Gene: DekHockey33_34 Start: 23681, Stop: 24013, Start Num: 65

Candidate Starts for DekHockey33_34:

(Start: 11 @23567 has 3 MA's), (43, 23639), (Start: 55 @23657 has 48 MA's), (Start: 61 @23669 has 1 MA's), (Start: 65 @23681 has 5 MA's), (74, 23726), (87, 23783), (90, 23795), (101, 23858), (126, 23966), (129, 23984),

Gene: Dexers_48 Start: 35583, Stop: 35906, Start Num: 53

Candidate Starts for Dexers_48:

(Start: 53 @35583 has 12 MA's), (Start: 62 @35601 has 1 MA's), (Start: 72 @35649 has 1 MA's), (76, 35661), (87, 35712), (88, 35715), (92, 35736), (97, 35754), (128, 35874),

Gene: Diminimus_4 Start: 1872, Stop: 1495, Start Num: 55

Candidate Starts for Diminimus_4:

(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: DirkDirk_33 Start: 29496, Stop: 29068, Start Num: 54

Candidate Starts for DirkDirk_33:

(Start: 54 @29496 has 206 MA's), (Start: 65 @29472 has 5 MA's), (90, 29355), (98, 29307), (129, 29178),

Gene: DmpstrDiver_58 Start: 45763, Stop: 45413, Start Num: 57

Candidate Starts for DmpstrDiver_58:

(Start: 57 @45763 has 33 MA's), (64, 45751), (66, 45745), (87, 45646), (103, 45562), (124, 45493),

Gene: DoctorDiddles_39 Start: 33219, Stop: 32833, Start Num: 54

Candidate Starts for DoctorDiddles_39:

(2, 33423), (Start: 54 @33219 has 206 MA's), (82, 33117), (87, 33093), (121, 32982), (124, 32949), (128, 32919),

Gene: Douge_33 Start: 29522, Stop: 29064, Start Num: 54

Candidate Starts for Douge_33:

(15, 29600), (17, 29591), (22, 29573), (Start: 54 @29522 has 206 MA's), (70, 29462), (76, 29444), (124, 29240), (129, 29207), (136, 29108),

Gene: Douzhi_33 Start: 29627, Stop: 29169, Start Num: 54
Candidate Starts for Douzhi_33:
(17, 29696), (22, 29678), (Start: 54 @29627 has 206 MA's), (70, 29567), (76, 29549), (124, 29345),
(129, 29312), (136, 29213),

Gene: Dove_54 Start: 45376, Stop: 45026, Start Num: 57
Candidate Starts for Dove_54:
(Start: 57 @45376 has 33 MA's), (64, 45364), (66, 45358), (103, 45175), (117, 45148), (124, 45106),

Gene: DrDrey_41 Start: 35267, Stop: 34881, Start Num: 54
Candidate Starts for DrDrey_41:
(Start: 54 @35267 has 206 MA's), (82, 35165), (87, 35141), (121, 35030), (124, 34997), (128, 34967),

Gene: DrSeegs_36 Start: 30674, Stop: 30213, Start Num: 54
Candidate Starts for DrSeegs_36:
(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: Duke13_62 Start: 46283, Stop: 45933, Start Num: 57
Candidate Starts for Duke13_62:
(Start: 57 @46283 has 33 MA's), (64, 46271), (66, 46265), (103, 46082), (117, 46055), (124, 46013),

Gene: Dulcita_4 Start: 1872, Stop: 1495, Start Num: 55
Candidate Starts for Dulcita_4:
(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: Dumbo_39 Start: 33652, Stop: 33266, Start Num: 54
Candidate Starts for Dumbo_39:
(Start: 54 @33652 has 206 MA's), (82, 33550), (87, 33526), (121, 33415), (124, 33382), (128, 33352),

Gene: DuncansLeg_34 Start: 30910, Stop: 30473, Start Num: 54
Candidate Starts for DuncansLeg_34:
(Start: 54 @30910 has 206 MA's), (90, 30769), (123, 30625), (129, 30586),

Gene: Dusk_39 Start: 34428, Stop: 34042, Start Num: 54
Candidate Starts for Dusk_39:
(Start: 54 @34428 has 206 MA's), (82, 34326), (87, 34302), (121, 34191), (124, 34158), (128, 34128),

Gene: Dusty_60 Start: 40991, Stop: 40656, Start Num: 48
Candidate Starts for Dusty_60:
(Start: 48 @40991 has 23 MA's), (Start: 61 @40967 has 1 MA's), (Start: 62 @40964 has 1 MA's), (77, 40895), (86, 40859), (98, 40793), (99, 40790), (124, 40715), (127, 40697), (129, 40682),

Gene: DyoEdafos_34 Start: 29729, Stop: 29259, Start Num: 54
Candidate Starts for DyoEdafos_34:
(Start: 54 @29729 has 206 MA's), (77, 29642), (81, 29630), (90, 29588), (124, 29438), (133, 29375),

Gene: EagleEye_35 Start: 25247, Stop: 25606, Start Num: 55
Candidate Starts for EagleEye_35:
(Start: 52 @25241 has 2 MA's), (Start: 55 @25247 has 48 MA's), (Start: 63 @25265 has 2 MA's),
(Start: 65 @25271 has 5 MA's), (73, 25316), (89, 25385), (96, 25421), (128, 25571), (130, 25586),

Gene: Easy2Say_40 Start: 35196, Stop: 34810, Start Num: 54
Candidate Starts for Easy2Say_40:

(Start: 54 @35196 has 206 MA's), (82, 35094), (87, 35070), (121, 34959), (124, 34926), (128, 34896),

Gene: Ejimix_59 Start: 47200, Stop: 46850, Start Num: 57

Candidate Starts for Ejimix_59:

(Start: 57 @47200 has 33 MA's), (64, 47188), (66, 47182), (103, 46999), (117, 46972), (124, 46930),

Gene: ElGato_49 Start: 35012, Stop: 35338, Start Num: 53

Candidate Starts for ElGato_49:

(Start: 53 @35012 has 12 MA's), (Start: 61 @35027 has 1 MA's), (Start: 63 @35033 has 2 MA's), (66, 35042), (Start: 72 @35078 has 1 MA's), (76, 35090), (87, 35141), (88, 35144), (97, 35183), (123, 35270), (128, 35306),

Gene: Elite2014_37 Start: 33170, Stop: 32784, Start Num: 54

Candidate Starts for Elite2014_37:

(Start: 54 @33170 has 206 MA's), (82, 33068), (87, 33044), (121, 32933), (124, 32900), (128, 32870),

Gene: Elle_32 Start: 22846, Stop: 23160, Start Num: 65

Candidate Starts for Elle_32:

(16, 22747), (20, 22765), (Start: 24 @22774 has 1 MA's), (31, 22783), (36, 22795), (Start: 55 @22822 has 48 MA's), (Start: 61 @22834 has 1 MA's), (Start: 65 @22846 has 5 MA's), (74, 22891), (87, 22948), (89, 22957), (104, 23023), (126, 23113), (129, 23131),

Gene: Ellson_34 Start: 30887, Stop: 30450, Start Num: 54

Candidate Starts for Ellson_34:

(23, 30944), (Start: 38 @30917 has 2 MA's), (Start: 54 @30887 has 206 MA's), (90, 30746), (123, 30602), (129, 30563),

Gene: Elph10_39 Start: 33416, Stop: 33030, Start Num: 54

Candidate Starts for Elph10_39:

(Start: 54 @33416 has 206 MA's), (82, 33314), (87, 33290), (121, 33179), (124, 33146), (128, 33116),

Gene: Emmina_39 Start: 33873, Stop: 33487, Start Num: 54

Candidate Starts for Emmina_39:

(Start: 54 @33873 has 206 MA's), (82, 33771), (87, 33747), (121, 33636), (124, 33603), (128, 33573),

Gene: Enceladus_33 Start: 29480, Stop: 29052, Start Num: 54

Candidate Starts for Enceladus_33:

(Start: 54 @29480 has 206 MA's), (Start: 65 @29456 has 5 MA's), (90, 29339), (98, 29291), (129, 29162),

Gene: Engineer_62 Start: 41659, Stop: 41324, Start Num: 48

Candidate Starts for Engineer_62:

(Start: 48 @41659 has 23 MA's), (Start: 61 @41635 has 1 MA's), (Start: 62 @41632 has 1 MA's), (77, 41563), (86, 41527), (98, 41461), (99, 41458), (124, 41383), (127, 41365), (129, 41350),

Gene: Epsocamisio_34 Start: 23535, Stop: 23891, Start Num: 55

Candidate Starts for Epsocamisio_34:

(Start: 11 @23445 has 3 MA's), (43, 23517), (Start: 55 @23535 has 48 MA's), (Start: 61 @23547 has 1 MA's), (Start: 65 @23559 has 5 MA's), (74, 23604), (87, 23661), (90, 23673), (101, 23736), (126, 23844), (129, 23862),

Gene: EricMillard_59 Start: 46701, Stop: 46351, Start Num: 57

Candidate Starts for EricMillard_59:

(Start: 57 @46701 has 33 MA's), (64, 46689), (66, 46683), (103, 46500), (117, 46473), (124, 46431),

Gene: Estes_4 Start: 1910, Stop: 1521, Start Num: 55

Candidate Starts for Estes_4:

(Start: 55 @1910 has 48 MA's), (Start: 61 @1898 has 1 MA's), (Start: 65 @1886 has 5 MA's), (71, 1847), (89, 1772), (92, 1757), (103, 1685),

Gene: Eureka_39 Start: 34461, Stop: 34075, Start Num: 54

Candidate Starts for Eureka_39:

(Start: 54 @34461 has 206 MA's), (82, 34359), (87, 34335), (121, 34224), (124, 34191), (128, 34161),

Gene: FairyPath_38 Start: 34158, Stop: 33772, Start Num: 54

Candidate Starts for FairyPath_38:

(Start: 54 @34158 has 206 MA's), (82, 34056), (87, 34032), (121, 33921), (124, 33888), (128, 33858),

Gene: Faith1_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for Faith1_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: FarmResident_33 Start: 29566, Stop: 29108, Start Num: 54

Candidate Starts for FarmResident_33:

(17, 29635), (22, 29617), (Start: 54 @29566 has 206 MA's), (70, 29506), (76, 29488), (124, 29284), (129, 29251), (136, 29152),

Gene: Filch_41 Start: 33944, Stop: 33558, Start Num: 54

Candidate Starts for Filch_41:

(Start: 54 @33944 has 206 MA's), (82, 33842), (87, 33818), (121, 33707), (124, 33674), (128, 33644),

Gene: Finemlucis_36 Start: 30950, Stop: 30489, Start Num: 54

Candidate Starts for Finemlucis_36:

(Start: 54 @30950 has 206 MA's), (77, 30863), (90, 30809), (115, 30713), (124, 30665),

Gene: Finnry_34 Start: 30924, Stop: 30487, Start Num: 54

Candidate Starts for Finnry_34:

(Start: 54 @30924 has 206 MA's), (90, 30783), (123, 30639), (129, 30600),

Gene: FireRed_38 Start: 33974, Stop: 33588, Start Num: 54

Candidate Starts for FireRed_38:

(Start: 54 @33974 has 206 MA's), (82, 33872), (87, 33848), (121, 33737), (124, 33704), (128, 33674),

Gene: Flypotenuse_36 Start: 33542, Stop: 33156, Start Num: 54

Candidate Starts for Flypotenuse_36:

(Start: 54 @33542 has 206 MA's), (82, 33440), (87, 33416), (121, 33305), (124, 33272), (128, 33242),

Gene: FoghornLeghorn_38 Start: 33689, Stop: 33303, Start Num: 54

Candidate Starts for FoghornLeghorn_38:

(Start: 54 @33689 has 206 MA's), (82, 33587), (87, 33563), (121, 33452), (124, 33419), (128, 33389),

Gene: FreakyGoo_4 Start: 1873, Stop: 1496, Start Num: 55

Candidate Starts for FreakyGoo_4:

(Start: 55 @1873 has 48 MA's), (78, 1783), (101, 1669), (121, 1591),

Gene: Fryberger_27 Start: 7779, Stop: 7438, Start Num: 46

Candidate Starts for Fryberger_27:

(Start: 46 @7779 has 6 MA's), (Start: 63 @7746 has 2 MA's), (Start: 72 @7698 has 1 MA's), (82, 7659), (90, 7623), (126, 7488),

Gene: Fryberger_64 Start: 36269, Stop: 35913, Start Num: 47

Candidate Starts for Fryberger_64:

(26, 36314), (Start: 47 @36269 has 6 MA's), (56, 36254), (76, 36182), (131, 35951),

Gene: Gabriela_36 Start: 30936, Stop: 30475, Start Num: 54

Candidate Starts for Gabriela_36:

(Start: 54 @30936 has 206 MA's), (77, 30849), (90, 30795), (115, 30699), (124, 30651),

Gene: Gage_40 Start: 33953, Stop: 33567, Start Num: 54

Candidate Starts for Gage_40:

(Start: 54 @33953 has 206 MA's), (82, 33851), (87, 33827), (121, 33716), (124, 33683), (128, 33653),

Gene: Gaia_43 Start: 33889, Stop: 33491, Start Num: 33

Candidate Starts for Gaia_43:

(Start: 33 @33889 has 1 MA's), (37, 33877), (Start: 58 @33835 has 1 MA's), (75, 33769), (85, 33724), (134, 33502),

Gene: Gail_34 Start: 25909, Stop: 26265, Start Num: 55

Candidate Starts for Gail_34:

(Start: 55 @25909 has 48 MA's), (88, 26041), (92, 26062), (96, 26083),

Gene: Gardann_36 Start: 30676, Stop: 30215, Start Num: 54

Candidate Starts for Gardann_36:

(Start: 54 @30676 has 206 MA's), (77, 30589), (90, 30535), (93, 30517), (115, 30439), (124, 30391),

Gene: GardenSalsa_4 Start: 1910, Stop: 1521, Start Num: 55

Candidate Starts for GardenSalsa_4:

(Start: 55 @1910 has 48 MA's), (Start: 61 @1898 has 1 MA's), (Start: 65 @1886 has 5 MA's), (71, 1847), (89, 1772), (92, 1757), (103, 1685),

Gene: Gator_37 Start: 34255, Stop: 33869, Start Num: 54

Candidate Starts for Gator_37:

(Start: 54 @34255 has 206 MA's), (82, 34153), (87, 34129), (121, 34018), (124, 33985), (128, 33955),

Gene: Geeche_59 Start: 41075, Stop: 40740, Start Num: 48

Candidate Starts for Geeche_59:

(Start: 48 @41075 has 23 MA's), (Start: 61 @41051 has 1 MA's), (Start: 62 @41048 has 1 MA's), (77, 40979), (86, 40943), (98, 40877), (99, 40874), (124, 40799), (127, 40781), (129, 40766),

Gene: Gemini_41 Start: 34470, Stop: 34084, Start Num: 54

Candidate Starts for Gemini_41:

(Start: 54 @34470 has 206 MA's), (82, 34368), (87, 34344), (121, 34233), (124, 34200), (128, 34170),

Gene: GenevaB15_4 Start: 1899, Stop: 1510, Start Num: 55

Candidate Starts for GenevaB15_4:

(Start: 55 @1899 has 48 MA's), (Start: 61 @1887 has 1 MA's), (Start: 65 @1875 has 5 MA's), (71, 1836), (103, 1674),

Gene: Glaske16_4 Start: 1872, Stop: 1495, Start Num: 55

Candidate Starts for Glaske16_4:
(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: Glexan_37 Start: 34243, Stop: 33857, Start Num: 54
Candidate Starts for Glexan_37:
(Start: 54 @34243 has 206 MA's), (82, 34141), (87, 34117), (121, 34006), (124, 33973), (128, 33943),

Gene: Goku_39 Start: 34190, Stop: 33804, Start Num: 54
Candidate Starts for Goku_39:
(Start: 54 @34190 has 206 MA's), (82, 34088), (87, 34064), (121, 33953), (124, 33920), (128, 33890),

Gene: GoldenSpark_40 Start: 33953, Stop: 33567, Start Num: 54
Candidate Starts for GoldenSpark_40:
(Start: 54 @33953 has 206 MA's), (82, 33851), (87, 33827), (121, 33716), (124, 33683), (128, 33653),

Gene: Goldilocks_39 Start: 33455, Stop: 33069, Start Num: 54
Candidate Starts for Goldilocks_39:
(Start: 54 @33455 has 206 MA's), (82, 33353), (87, 33329), (121, 33218), (124, 33185), (128, 33155),

Gene: Gonephishing_59 Start: 44098, Stop: 43742, Start Num: 57
Candidate Starts for Gonephishing_59:
(Start: 57 @44098 has 33 MA's), (106, 43888), (123, 43831), (129, 43792),

Gene: GooberAzure_40 Start: 33953, Stop: 33567, Start Num: 54
Candidate Starts for GooberAzure_40:
(Start: 54 @33953 has 206 MA's), (82, 33851), (87, 33827), (121, 33716), (124, 33683), (128, 33653),

Gene: Greep_39 Start: 34266, Stop: 33880, Start Num: 54
Candidate Starts for Greep_39:
(Start: 54 @34266 has 206 MA's), (82, 34164), (87, 34140), (121, 34029), (124, 33996), (128, 33966),

Gene: Guey18_70 Start: 37789, Stop: 37433, Start Num: 47
Candidate Starts for Guey18_70:
(26, 37834), (Start: 47 @37789 has 6 MA's), (56, 37774), (76, 37702), (131, 37471),

Gene: Guey18_31 Start: 8640, Stop: 8299, Start Num: 46
Candidate Starts for Guey18_31:
(Start: 46 @8640 has 6 MA's), (Start: 63 @8607 has 2 MA's), (Start: 72 @8559 has 1 MA's), (82, 8520), (90, 8484), (126, 8349),

Gene: GuuelaD_36 Start: 30713, Stop: 30252, Start Num: 54
Candidate Starts for GuuelaD_36:
(Start: 54 @30713 has 206 MA's), (77, 30626), (90, 30572), (115, 30476), (124, 30428),

Gene: Hafay_36 Start: 30708, Stop: 30244, Start Num: 54
Candidate Starts for Hafay_36:
(Start: 54 @30708 has 206 MA's), (77, 30621), (90, 30567), (93, 30549), (115, 30471), (121, 30456), (124, 30423),

Gene: Halena_33 Start: 29507, Stop: 29079, Start Num: 54
Candidate Starts for Halena_33:
(Start: 54 @29507 has 206 MA's), (Start: 65 @29483 has 5 MA's), (90, 29366), (98, 29318), (129, 29189),

Gene: Halley_59 Start: 46414, Stop: 46064, Start Num: 57

Candidate Starts for Halley_59:

(Start: 57 @46414 has 33 MA's), (64, 46402), (66, 46396), (103, 46213), (117, 46186), (124, 46144),

Gene: HanKaySha_40 Start: 33927, Stop: 33541, Start Num: 54

Candidate Starts for HanKaySha_40:

(Start: 54 @33927 has 206 MA's), (82, 33825), (87, 33801), (121, 33690), (124, 33657), (128, 33627),

Gene: Hannaconda_55 Start: 40903, Stop: 40553, Start Num: 57

Candidate Starts for Hannaconda_55:

(Start: 57 @40903 has 33 MA's), (64, 40891), (66, 40885), (103, 40702), (117, 40675), (124, 40633),

Gene: Harella_39 Start: 34759, Stop: 34373, Start Num: 54

Candidate Starts for Harella_39:

(Start: 54 @34759 has 206 MA's), (82, 34657), (87, 34633), (121, 34522), (124, 34489), (128, 34459),

Gene: Henry_40 Start: 34647, Stop: 34261, Start Num: 54

Candidate Starts for Henry_40:

(Start: 54 @34647 has 206 MA's), (82, 34545), (87, 34521), (121, 34410), (124, 34377), (128, 34347),

Gene: Hidrated_57 Start: 46099, Stop: 45749, Start Num: 57

Candidate Starts for Hidrated_57:

(Start: 57 @46099 has 33 MA's), (64, 46087), (66, 46081), (103, 45898), (117, 45871), (124, 45829),

Gene: Highbury_40 Start: 33715, Stop: 33329, Start Num: 54

Candidate Starts for Highbury_40:

(Start: 54 @33715 has 206 MA's), (82, 33613), (87, 33589), (121, 33478), (124, 33445), (128, 33415),

Gene: HokkenD_52 Start: 44683, Stop: 44333, Start Num: 57

Candidate Starts for HokkenD_52:

(Start: 57 @44683 has 33 MA's), (64, 44671), (66, 44665), (103, 44482), (117, 44455), (124, 44413),

Gene: Holt_40 Start: 33334, Stop: 32948, Start Num: 54

Candidate Starts for Holt_40:

(2, 33538), (Start: 54 @33334 has 206 MA's), (82, 33232), (87, 33208), (121, 33097), (124, 33064),
(128, 33034),

Gene: Hoonter_40 Start: 33953, Stop: 33567, Start Num: 54

Candidate Starts for Hoonter_40:

(Start: 54 @33953 has 206 MA's), (82, 33851), (87, 33827), (121, 33716), (124, 33683), (128, 33653),

Gene: Hopey_41 Start: 34462, Stop: 34076, Start Num: 54

Candidate Starts for Hopey_41:

(Start: 54 @34462 has 206 MA's), (82, 34360), (87, 34336), (121, 34225), (124, 34192), (128, 34162),

Gene: HufflyPuff_37 Start: 33930, Stop: 33544, Start Num: 54

Candidate Starts for HufflyPuff_37:

(Start: 54 @33930 has 206 MA's), (82, 33828), (87, 33804), (121, 33693), (124, 33660), (128, 33630),

Gene: Hughesyang_57 Start: 46343, Stop: 45993, Start Num: 57

Candidate Starts for Hughesyang_57:

(Start: 57 @46343 has 33 MA's), (64, 46331), (66, 46325), (103, 46142), (117, 46115), (124, 46073),

Gene: IHOP_38 Start: 34202, Stop: 33816, Start Num: 54

Candidate Starts for IHOP_38:

(Start: 54 @34202 has 206 MA's), (82, 34100), (87, 34076), (121, 33965), (124, 33932), (128, 33902),

Gene: IPhane7_3 Start: 1873, Stop: 1496, Start Num: 55

Candidate Starts for IPhane7_3:

(Start: 55 @1873 has 48 MA's), (78, 1783), (101, 1669), (121, 1591),

Gene: Icee_37 Start: 33621, Stop: 33235, Start Num: 54

Candidate Starts for Icee_37:

(Start: 54 @33621 has 206 MA's), (82, 33519), (87, 33495), (121, 33384), (124, 33351), (128, 33321),

Gene: Inca_37 Start: 32727, Stop: 32341, Start Num: 54

Candidate Starts for Inca_37:

(Start: 54 @32727 has 206 MA's), (82, 32625), (87, 32601), (121, 32490), (124, 32457), (128, 32427),

Gene: Itos_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for Itos_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: Itza_48 Start: 32273, Stop: 32590, Start Num: 53

Candidate Starts for Itza_48:

(4, 32099), (8, 32147), (31, 32225), (Start: 53 @32273 has 12 MA's), (114, 32474), (124, 32522), (127, 32540), (128, 32552), (131, 32576),

Gene: Izel_4 Start: 1872, Stop: 1495, Start Num: 55

Candidate Starts for Izel_4:

(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: JSwag_34 Start: 23545, Stop: 23877, Start Num: 65

Candidate Starts for JSwag_34:

(Start: 11 @23431 has 3 MA's), (43, 23503), (Start: 55 @23521 has 48 MA's), (Start: 61 @23533 has 1 MA's), (Start: 65 @23545 has 5 MA's), (74, 23590), (87, 23647), (90, 23659), (101, 23722), (126, 23830), (129, 23848),

Gene: JeTaime_41 Start: 34986, Stop: 34600, Start Num: 54

Candidate Starts for JeTaime_41:

(Start: 54 @34986 has 206 MA's), (82, 34884), (87, 34860), (121, 34749), (124, 34716), (128, 34686),

Gene: Jeeves_33 Start: 24601, Stop: 24957, Start Num: 55

Candidate Starts for Jeeves_33:

(14, 24511), (41, 24574), (Start: 55 @24601 has 48 MA's), (Start: 61 @24613 has 1 MA's), (88, 24733), (109, 24829), (129, 24925),

Gene: Jhitchelle_48 Start: 34899, Stop: 35210, Start Num: 61

Candidate Starts for Jhitchelle_48:

(Start: 53 @34884 has 12 MA's), (Start: 61 @34899 has 1 MA's), (90, 35025), (97, 35055), (116, 35100), (128, 35178), (129, 35181),

Gene: Jobypre_34 Start: 30921, Stop: 30484, Start Num: 54

Candidate Starts for Jobypre_34:

(Start: 54 @30921 has 206 MA's), (90, 30780), (123, 30636), (129, 30597),

Gene: JoeDirt_33 Start: 29478, Stop: 29050, Start Num: 54

Candidate Starts for JoeDirt_33:

(Start: 54 @29478 has 206 MA's), (Start: 65 @29454 has 5 MA's), (90, 29337), (98, 29289), (129, 29160),

Gene: Jubie_34 Start: 30922, Stop: 30485, Start Num: 54

Candidate Starts for Jubie_34:

(Start: 54 @30922 has 206 MA's), (90, 30781), (123, 30637), (129, 30598),

Gene: JuicyJay_58 Start: 47549, Stop: 47199, Start Num: 57

Candidate Starts for JuicyJay_58:

(Start: 57 @47549 has 33 MA's), (64, 47537), (66, 47531), (103, 47348), (117, 47321), (124, 47279),

Gene: Kahlid_36 Start: 30680, Stop: 30216, Start Num: 54

Candidate Starts for Kahlid_36:

(Start: 54 @30680 has 206 MA's), (77, 30593), (90, 30539), (93, 30521), (115, 30443), (121, 30428), (124, 30395),

Gene: Kaine_49 Start: 35407, Stop: 35712, Start Num: 62

Candidate Starts for Kaine_49:

(Start: 53 @35389 has 12 MA's), (Start: 62 @35407 has 1 MA's), (Start: 72 @35455 has 1 MA's), (76, 35467), (87, 35518), (88, 35521), (92, 35542), (97, 35560), (128, 35680),

Gene: Kalah2_55 Start: 45958, Stop: 45608, Start Num: 57

Candidate Starts for Kalah2_55:

(Start: 57 @45958 has 33 MA's), (64, 45946), (66, 45940), (103, 45757), (124, 45688),

Gene: Kanye_40 Start: 34949, Stop: 34563, Start Num: 54

Candidate Starts for Kanye_40:

(Start: 54 @34949 has 206 MA's), (82, 34847), (87, 34823), (121, 34712), (124, 34679), (128, 34649),

Gene: KashFlow_52 Start: 40524, Stop: 40174, Start Num: 57

Candidate Starts for KashFlow_52:

(Start: 57 @40524 has 33 MA's), (64, 40512), (66, 40506), (103, 40323), (117, 40296), (124, 40254),

Gene: KatherineG_34 Start: 23657, Stop: 24013, Start Num: 55

Candidate Starts for KatherineG_34:

(Start: 11 @23567 has 3 MA's), (43, 23639), (Start: 55 @23657 has 48 MA's), (Start: 61 @23669 has 1 MA's), (Start: 65 @23681 has 5 MA's), (74, 23726), (87, 23783), (90, 23795), (101, 23858), (126, 23966), (129, 23984),

Gene: Keelan_63 Start: 36695, Stop: 36342, Start Num: 47

Candidate Starts for Keelan_63:

(1, 36905), (5, 36845), (16, 36767), (18, 36755), (43, 36701), (Start: 47 @36695 has 6 MA's), (56, 36680), (85, 36566), (108, 36491), (131, 36380),

Gene: Keelan_24 Start: 7189, Stop: 6836, Start Num: 46

Candidate Starts for Keelan_24:

(Start: 46 @7189 has 6 MA's), (Start: 63 @7156 has 2 MA's), (87, 7045), (92, 7021), (115, 6946), (129, 6871),

Gene: Keziacharles14_34 Start: 26571, Stop: 26927, Start Num: 55

Candidate Starts for Keziacharles14_34:

(Start: 55 @26571 has 48 MA's), (Start: 63 @26589 has 2 MA's), (Start: 65 @26595 has 5 MA's), (103, 26784),

Gene: Kimchi_40 Start: 33956, Stop: 33570, Start Num: 54

Candidate Starts for Kimchi_40:

(Start: 54 @33956 has 206 MA's), (82, 33854), (87, 33830), (121, 33719), (124, 33686), (128, 33656),

Gene: Kingsolomon_34 Start: 30921, Stop: 30484, Start Num: 54

Candidate Starts for Kingsolomon_34:

(Start: 54 @30921 has 206 MA's), (90, 30780), (123, 30636), (129, 30597),

Gene: KirDoubleO7_32 Start: 30920, Stop: 30483, Start Num: 54

Candidate Starts for KirDoubleO7_32:

(23, 30977), (Start: 38 @30950 has 2 MA's), (Start: 54 @30920 has 206 MA's), (90, 30779), (123, 30635), (129, 30596),

Gene: Klein_59 Start: 45981, Stop: 45631, Start Num: 57

Candidate Starts for Klein_59:

(Start: 57 @45981 has 33 MA's), (64, 45969), (66, 45963), (103, 45780), (117, 45753), (124, 45711),

Gene: KleverKiS_3 Start: 1872, Stop: 1495, Start Num: 55

Candidate Starts for KleverKiS_3:

(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: Kostya_39 Start: 33964, Stop: 33578, Start Num: 54

Candidate Starts for Kostya_39:

(Start: 54 @33964 has 206 MA's), (82, 33862), (87, 33838), (121, 33727), (124, 33694), (128, 33664),

Gene: Kropertea_33 Start: 29537, Stop: 29067, Start Num: 54

Candidate Starts for Kropertea_33:

(Start: 54 @29537 has 206 MA's), (77, 29450), (81, 29438), (90, 29396), (124, 29246), (133, 29183),

Gene: Krypton555_34 Start: 30829, Stop: 30389, Start Num: 54

Candidate Starts for Krypton555_34:

(23, 30886), (Start: 38 @30859 has 2 MA's), (Start: 54 @30829 has 206 MA's), (90, 30688), (123, 30544), (129, 30505),

Gene: Kudfre_37 Start: 30852, Stop: 30484, Start Num: 48

Candidate Starts for Kudfre_37:

(Start: 48 @30852 has 23 MA's), (90, 30699), (124, 30558), (129, 30525),

Gene: Kumao_4 Start: 1202, Stop: 834, Start Num: 52

Candidate Starts for Kumao_4:

(28, 1244), (Start: 52 @1202 has 2 MA's), (Start: 55 @1196 has 48 MA's), (Start: 72 @1130 has 1 MA's), (80, 1100), (87, 1067), (109, 968), (128, 866),

Gene: LadyBird_32 Start: 25226, Stop: 25567, Start Num: 63

Candidate Starts for LadyBird_32:

(Start: 55 @25208 has 48 MA's), (Start: 63 @25226 has 2 MA's), (Start: 65 @25232 has 5 MA's), (70, 25268), (82, 25313), (87, 25337), (88, 25340), (123, 25496),

Gene: LastResort_34 Start: 23538, Stop: 23894, Start Num: 55

Candidate Starts for LastResort_34:

(Start: 11 @23448 has 3 MA's), (43, 23520), (Start: 55 @23538 has 48 MA's), (Start: 61 @23550 has 1 MA's), (Start: 65 @23562 has 5 MA's), (74, 23607), (87, 23664), (90, 23676), (101, 23739), (126, 23847), (129, 23865),

Gene: LeBron_33 Start: 29522, Stop: 29094, Start Num: 54

Candidate Starts for LeBron_33:

(Start: 54 @29522 has 206 MA's), (Start: 65 @29498 has 5 MA's), (90, 29381), (98, 29333), (129, 29204),

Gene: Lewan_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for Lewan_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: LilDestine_36 Start: 30673, Stop: 30212, Start Num: 54

Candidate Starts for LilDestine_36:

(Start: 54 @30673 has 206 MA's), (77, 30586), (90, 30532), (93, 30514), (115, 30436), (124, 30388),

Gene: LilJank_38 Start: 32476, Stop: 32138, Start Num: 50

Candidate Starts for LilJank_38:

(Start: 50 @32476 has 8 MA's), (Start: 72 @32404 has 1 MA's), (90, 32329), (101, 32275), (124, 32200), (129, 32167),

Gene: Lilac_40 Start: 33443, Stop: 33057, Start Num: 54

Candidate Starts for Lilac_40:

(Start: 54 @33443 has 206 MA's), (82, 33341), (87, 33317), (121, 33206), (124, 33173), (128, 33143),

Gene: LilhomieP_3 Start: 1873, Stop: 1496, Start Num: 55

Candidate Starts for LilhomieP_3:

(Start: 55 @1873 has 48 MA's), (78, 1783), (101, 1669), (121, 1591),

Gene: Lilizi_40 Start: 33651, Stop: 33265, Start Num: 54

Candidate Starts for Lilizi_40:

(Start: 54 @33651 has 206 MA's), (82, 33549), (87, 33525), (121, 33414), (124, 33381), (128, 33351),

Gene: Lilpickle_37 Start: 33170, Stop: 32784, Start Num: 54

Candidate Starts for Lilpickle_37:

(Start: 54 @33170 has 206 MA's), (82, 33068), (87, 33044), (121, 32933), (124, 32900), (128, 32870),

Gene: LittleE_59 Start: 45436, Stop: 45074, Start Num: 57

Candidate Starts for LittleE_59:

(Start: 57 @45436 has 33 MA's),

Gene: LiyuLake_34 Start: 30878, Stop: 30441, Start Num: 54

Candidate Starts for LiyuLake_34:

(23, 30935), (Start: 38 @30908 has 2 MA's), (Start: 54 @30878 has 206 MA's), (90, 30737), (123, 30593), (129, 30554),

Gene: Loadrie_36 Start: 30706, Stop: 30245, Start Num: 54

Candidate Starts for Loadrie_36:

(Start: 54 @30706 has 206 MA's), (77, 30619), (90, 30565), (93, 30547), (115, 30469), (124, 30421),

Gene: Lolly9_34 Start: 30693, Stop: 30253, Start Num: 54

Candidate Starts for Lolly9_34:

(Start: 54 @30693 has 206 MA's), (90, 30552), (93, 30534), (123, 30408), (129, 30369),

Gene: Looper_35 Start: 23535, Stop: 23891, Start Num: 55

Candidate Starts for Looper_35:

(Start: 11 @23445 has 3 MA's), (43, 23517), (Start: 55 @23535 has 48 MA's), (Start: 61 @23547 has 1 MA's), (Start: 65 @23559 has 5 MA's), (74, 23604), (87, 23661), (90, 23673), (101, 23736), (126, 23844), (129, 23862),

Gene: Lozinak_61 Start: 41485, Stop: 41150, Start Num: 48

Candidate Starts for Lozinak_61:

(Start: 48 @41485 has 23 MA's), (Start: 61 @41461 has 1 MA's), (Start: 62 @41458 has 1 MA's), (77, 41389), (86, 41353), (98, 41287), (124, 41209), (127, 41191), (129, 41176),

Gene: Luchador_36 Start: 27109, Stop: 27465, Start Num: 55

Candidate Starts for Luchador_36:

(3, 26908), (42, 27085), (Start: 55 @27109 has 48 MA's), (Start: 61 @27121 has 1 MA's), (88, 27241), (109, 27337), (119, 27364), (129, 27433),

Gene: Lucky2013_57 Start: 42959, Stop: 42600, Start Num: 59

Candidate Starts for Lucky2013_57:

(Start: 38 @42998 has 2 MA's), (Start: 59 @42959 has 6 MA's), (Start: 65 @42944 has 5 MA's), (106, 42746),

Gene: Lucyedi_34 Start: 25248, Stop: 25607, Start Num: 55

Candidate Starts for Lucyedi_34:

(Start: 52 @25242 has 2 MA's), (Start: 55 @25248 has 48 MA's), (Start: 63 @25266 has 2 MA's), (Start: 65 @25272 has 5 MA's), (73, 25317), (89, 25386), (128, 25572), (130, 25587),

Gene: Lumos_34 Start: 30918, Stop: 30481, Start Num: 54

Candidate Starts for Lumos_34:

(Start: 54 @30918 has 206 MA's), (90, 30777), (123, 30633), (129, 30594),

Gene: Lynnae_36 Start: 30663, Stop: 30199, Start Num: 54

Candidate Starts for Lynnae_36:

(Start: 54 @30663 has 206 MA's), (77, 30576), (90, 30522), (93, 30504), (115, 30426), (121, 30411), (124, 30378),

Gene: MAckerman_33 Start: 29502, Stop: 29074, Start Num: 54

Candidate Starts for MAckerman_33:

(Start: 54 @29502 has 206 MA's), (Start: 65 @29478 has 5 MA's), (90, 29361), (98, 29313), (129, 29184),

Gene: MISSy_37 Start: 33459, Stop: 33073, Start Num: 54

Candidate Starts for MISSy_37:

(Start: 54 @33459 has 206 MA's), (82, 33357), (87, 33333), (121, 33222), (124, 33189), (128, 33159),

Gene: MPhalcon_37 Start: 33452, Stop: 33066, Start Num: 54

Candidate Starts for MPhalcon_37:

(Start: 54 @33452 has 206 MA's), (82, 33350), (87, 33326), (121, 33215), (124, 33182), (128, 33152),

Gene: MadamMonkfish_39 Start: 33476, Stop: 33090, Start Num: 54

Candidate Starts for MadamMonkfish_39:

(Start: 54 @33476 has 206 MA's), (82, 33374), (87, 33350), (121, 33239), (124, 33206), (128, 33176),

Gene: Magritte_78 Start: 65825, Stop: 66166, Start Num: 48

Candidate Starts for Magritte_78:

(Start: 48 @65825 has 23 MA's), (60, 65846), (Start: 65 @65861 has 5 MA's), (68, 65891), (129, 66137),

Gene: Manda_39 Start: 34431, Stop: 34045, Start Num: 54

Candidate Starts for Manda_39:

(Start: 54 @34431 has 206 MA's), (82, 34329), (87, 34305), (121, 34194), (124, 34161), (128, 34131),

Gene: Marleymoo_58 Start: 45997, Stop: 45647, Start Num: 57

Candidate Starts for Marleymoo_58:

(Start: 57 @45997 has 33 MA's), (64, 45985), (66, 45979), (103, 45796), (117, 45769), (124, 45727),

Gene: Marshmallow_39 Start: 34636, Stop: 34250, Start Num: 54

Candidate Starts for Marshmallow_39:

(Start: 54 @34636 has 206 MA's), (82, 34534), (87, 34510), (121, 34399), (124, 34366), (128, 34336),

Gene: Maxxinista_39 Start: 33413, Stop: 33027, Start Num: 54

Candidate Starts for Maxxinista_39:

(Start: 54 @33413 has 206 MA's), (82, 33311), (87, 33287), (121, 33176), (124, 33143), (128, 33113),

Gene: MiaZeal_56 Start: 42634, Stop: 42275, Start Num: 59

Candidate Starts for MiaZeal_56:

(Start: 38 @42673 has 2 MA's), (Start: 59 @42634 has 6 MA's), (Start: 65 @42619 has 5 MA's), (106, 42421),

Gene: Miley16_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for Miley16_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: Mindy_40 Start: 33835, Stop: 33449, Start Num: 54

Candidate Starts for Mindy_40:

(2, 34039), (Start: 54 @33835 has 206 MA's), (82, 33733), (87, 33709), (121, 33598), (124, 33565), (128, 33535),

Gene: MinecraftSteve_35 Start: 23657, Stop: 24013, Start Num: 55

Candidate Starts for MinecraftSteve_35:

(Start: 11 @23567 has 3 MA's), (43, 23639), (Start: 55 @23657 has 48 MA's), (Start: 61 @23669 has 1 MA's), (Start: 65 @23681 has 5 MA's), (74, 23726), (87, 23783), (90, 23795), (101, 23858), (126, 23966), (129, 23984),

Gene: Minerva_65 Start: 47831, Stop: 47481, Start Num: 57

Candidate Starts for Minerva_65:

(Start: 57 @47831 has 33 MA's), (64, 47819), (66, 47813), (103, 47630), (117, 47603), (124, 47561),

Gene: MiniLon_34 Start: 30694, Stop: 30254, Start Num: 54

Candidate Starts for MiniLon_34:

(Start: 54 @30694 has 206 MA's), (90, 30553), (93, 30535), (123, 30409), (129, 30370),

Gene: MiniMac_34 Start: 30691, Stop: 30251, Start Num: 54

Candidate Starts for MiniMac_34:

(Start: 54 @30691 has 206 MA's), (90, 30550), (93, 30532), (123, 30406), (129, 30367),

Gene: Minispark_31 Start: 24788, Stop: 25045, Start Num: 80

Candidate Starts for Minispark_31:

(39, 24662), (Start: 55 @24692 has 48 MA's), (Start: 63 @24710 has 2 MA's), (Start: 65 @24716 has 5 MA's), (80, 24788), (129, 25013),

Gene: Miniwave_38 Start: 34160, Stop: 33774, Start Num: 54

Candidate Starts for Miniwave_38:

(Start: 54 @34160 has 206 MA's), (82, 34058), (87, 34034), (121, 33923), (124, 33890), (128, 33860),

Gene: Misfit_38 Start: 34033, Stop: 33647, Start Num: 54

Candidate Starts for Misfit_38:

(Start: 54 @34033 has 206 MA's), (82, 33931), (87, 33907), (121, 33796), (124, 33763), (128, 33733),

Gene: Miskis_58 Start: 41019, Stop: 40684, Start Num: 48

Candidate Starts for Miskis_58:

(Start: 48 @41019 has 23 MA's), (Start: 61 @40995 has 1 MA's), (Start: 62 @40992 has 1 MA's), (77, 40923), (86, 40887), (98, 40821), (99, 40818), (124, 40743), (127, 40725), (129, 40710),

Gene: MkaliMitinis3_36 Start: 30675, Stop: 30211, Start Num: 54

Candidate Starts for MkaliMitinis3_36:

(Start: 54 @30675 has 206 MA's), (77, 30588), (90, 30534), (93, 30516), (115, 30438), (121, 30423), (124, 30390),

Gene: Moldemort_39 Start: 33705, Stop: 33319, Start Num: 54

Candidate Starts for Moldemort_39:

(Start: 54 @33705 has 206 MA's), (82, 33603), (87, 33579), (121, 33468), (124, 33435), (128, 33405),

Gene: MollyToe_38 Start: 34117, Stop: 33731, Start Num: 54

Candidate Starts for MollyToe_38:

(Start: 54 @34117 has 206 MA's), (82, 34015), (87, 33991), (121, 33880), (124, 33847), (128, 33817),

Gene: Mollymur_44 Start: 40607, Stop: 40245, Start Num: 50

Candidate Starts for Mollymur_44:

(Start: 50 @40607 has 8 MA's), (Start: 65 @40574 has 5 MA's), (69, 40544), (70, 40541), (Start: 72 @40535 has 1 MA's), (118, 40349),

Gene: Moostard_34 Start: 30923, Stop: 30486, Start Num: 54

Candidate Starts for Moostard_34:

(Start: 54 @30923 has 206 MA's), (90, 30782), (123, 30638), (129, 30599),

Gene: Mosby_38 Start: 33689, Stop: 33303, Start Num: 54

Candidate Starts for Mosby_38:

(Start: 54 @33689 has 206 MA's), (82, 33587), (87, 33563), (121, 33452), (124, 33419), (128, 33389),

Gene: MrMagoo_4 Start: 1910, Stop: 1521, Start Num: 55

Candidate Starts for MrMagoo_4:

(Start: 55 @1910 has 48 MA's), (Start: 61 @1898 has 1 MA's), (Start: 65 @1886 has 5 MA's), (71, 1847), (89, 1772), (92, 1757), (103, 1685),

Gene: MsGreen_34 Start: 30921, Stop: 30484, Start Num: 54

Candidate Starts for MsGreen_34:

(Start: 54 @30921 has 206 MA's), (90, 30780), (123, 30636), (129, 30597),

Gene: Murica_37 Start: 33930, Stop: 33544, Start Num: 54

Candidate Starts for Murica_37:

(Start: 54 @33930 has 206 MA's), (82, 33828), (87, 33804), (121, 33693), (124, 33660), (128, 33630),

Gene: Murphy_39 Start: 33925, Stop: 33539, Start Num: 54

Candidate Starts for Murphy_39:

(Start: 54 @33925 has 206 MA's), (82, 33823), (87, 33799), (121, 33688), (124, 33655), (128, 33625),

Gene: Myrale_40 Start: 34501, Stop: 34115, Start Num: 54

Candidate Starts for Myrale_40:

(Start: 54 @34501 has 206 MA's), (82, 34399), (87, 34375), (121, 34264), (124, 34231), (128, 34201),

Gene: Nala_38 Start: 33964, Stop: 33578, Start Num: 54

Candidate Starts for Nala_38:

(Start: 54 @33964 has 206 MA's), (82, 33862), (87, 33838), (121, 33727), (124, 33694), (128, 33664),

Gene: Nanodon_50 Start: 34429, Stop: 34755, Start Num: 53

Candidate Starts for Nanodon_50:

(Start: 53 @34429 has 12 MA's), (Start: 63 @34450 has 2 MA's), (90, 34570), (116, 34642), (128, 34720),

Gene: Nanosmite_3 Start: 1842, Stop: 1450, Start Num: 55

Candidate Starts for Nanosmite_3:

(Start: 55 @1842 has 48 MA's), (100, 1647),

Gene: Nebkiss_43 Start: 33536, Stop: 33192, Start Num: 58

Candidate Starts for Nebkiss_43:

(Start: 33 @33590 has 1 MA's), (37, 33578), (Start: 58 @33536 has 1 MA's), (75, 33470), (85, 33425), (134, 33203),

Gene: Nebulosus_34 Start: 23445, Stop: 23891, Start Num: 11

Candidate Starts for Nebulosus_34:

(Start: 11 @23445 has 3 MA's), (43, 23517), (Start: 55 @23535 has 48 MA's), (Start: 61 @23547 has 1 MA's), (Start: 65 @23559 has 5 MA's), (74, 23604), (87, 23661), (90, 23673), (101, 23736), (126, 23844), (129, 23862),

Gene: Nedarya_33 Start: 24103, Stop: 24507, Start Num: 24

Candidate Starts for Nedarya_33:

(Start: 24 @24103 has 1 MA's), (31, 24112), (36, 24124), (Start: 55 @24151 has 48 MA's), (Start: 61 @24163 has 1 MA's), (Start: 65 @24175 has 5 MA's), (74, 24220), (87, 24277), (99, 24340), (107, 24376), (126, 24460), (129, 24478),

Gene: Nekros_56 Start: 45256, Stop: 44906, Start Num: 57

Candidate Starts for Nekros_56:

(Start: 57 @45256 has 33 MA's), (64, 45244), (66, 45238), (87, 45139), (103, 45055), (124, 44986),

Gene: NelitzaMV_38 Start: 34014, Stop: 33628, Start Num: 54

Candidate Starts for NelitzaMV_38:

(Start: 54 @34014 has 206 MA's), (82, 33912), (87, 33888), (121, 33777), (124, 33744), (128, 33714),

Gene: Netyap_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for Netyap_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: Neville_38 Start: 32115, Stop: 31777, Start Num: 50

Candidate Starts for Neville_38:

(Start: 50 @32115 has 8 MA's), (Start: 72 @32043 has 1 MA's), (90, 31968), (101, 31914), (124, 31839), (129, 31806),

Gene: Nibley_51 Start: 40913, Stop: 40554, Start Num: 59

Candidate Starts for Nibley_51:

(Start: 38 @40952 has 2 MA's), (Start: 59 @40913 has 6 MA's),

Gene: Nicholas_34 Start: 30921, Stop: 30484, Start Num: 54

Candidate Starts for Nicholas_34:

(Start: 54 @30921 has 206 MA's), (90, 30780), (123, 30636), (129, 30597),

Gene: Nicholasp3_36 Start: 30676, Stop: 30215, Start Num: 54

Candidate Starts for Nicholasp3_36:

(Start: 54 @30676 has 206 MA's), (77, 30589), (90, 30535), (93, 30517), (115, 30439), (124, 30391),

Gene: NihilNomen_58 Start: 46501, Stop: 46151, Start Num: 57

Candidate Starts for NihilNomen_58:

(Start: 57 @46501 has 33 MA's), (64, 46489), (66, 46483), (103, 46300), (117, 46273), (124, 46231),

Gene: Nimrod_38 Start: 34188, Stop: 33802, Start Num: 54

Candidate Starts for Nimrod_38:

(Start: 54 @34188 has 206 MA's), (82, 34086), (87, 34062), (121, 33951), (124, 33918), (128, 33888),

Gene: NoSleep_39 Start: 33685, Stop: 33299, Start Num: 54

Candidate Starts for NoSleep_39:

(Start: 54 @33685 has 206 MA's), (82, 33583), (87, 33559), (121, 33448), (124, 33415), (128, 33385),

Gene: NonchalantPear_39 Start: 33877, Stop: 33491, Start Num: 54

Candidate Starts for NonchalantPear_39:

(Start: 54 @33877 has 206 MA's), (82, 33775), (87, 33751), (121, 33640), (124, 33607), (128, 33577),

Gene: Norvs_61 Start: 41258, Stop: 40923, Start Num: 48

Candidate Starts for Norvs_61:

(Start: 48 @41258 has 23 MA's), (Start: 61 @41234 has 1 MA's), (Start: 62 @41231 has 1 MA's), (77, 41162), (86, 41126), (98, 41060), (99, 41057), (124, 40982), (127, 40964), (129, 40949),

Gene: Octobien14_39 Start: 31533, Stop: 31165, Start Num: 48

Candidate Starts for Octobien14_39:

(Start: 48 @31533 has 23 MA's), (67, 31485), (90, 31380), (124, 31236), (129, 31203),

Gene: Odette_57 Start: 45544, Stop: 45194, Start Num: 57

Candidate Starts for Odette_57:

(Start: 57 @45544 has 33 MA's), (64, 45532), (66, 45526), (103, 45343), (117, 45316), (124, 45274),

Gene: OhShagHennessy_33 Start: 29467, Stop: 29039, Start Num: 54

Candidate Starts for OhShagHennessy_33:

(Start: 54 @29467 has 206 MA's), (Start: 65 @29443 has 5 MA's), (90, 29326), (98, 29278), (129, 29149),

Gene: Omega_61 Start: 47100, Stop: 46744, Start Num: 57
Candidate Starts for Omega_61:
(Start: 57 @47100 has 33 MA's), (106, 46890), (123, 46833), (129, 46794),

Gene: OneUp_54 Start: 40717, Stop: 40373, Start Num: 48
Candidate Starts for OneUp_54:
(Start: 48 @40717 has 23 MA's), (86, 40585), (124, 40435), (127, 40417),

Gene: Oofda_34 Start: 23533, Stop: 23865, Start Num: 65
Candidate Starts for Oofda_34:
(Start: 11 @23419 has 3 MA's), (43, 23491), (Start: 55 @23509 has 48 MA's), (Start: 61 @23521 has 1 MA's), (Start: 65 @23533 has 5 MA's), (74, 23578), (87, 23635), (90, 23647), (101, 23710), (126, 23818), (129, 23836),

Gene: Optimus_64 Start: 47417, Stop: 47067, Start Num: 57
Candidate Starts for Optimus_64:
(Start: 57 @47417 has 33 MA's), (64, 47405), (66, 47399), (103, 47216), (117, 47189), (124, 47147),

Gene: OrionPax_40 Start: 33930, Stop: 33544, Start Num: 54
Candidate Starts for OrionPax_40:
(Start: 54 @33930 has 206 MA's), (82, 33828), (87, 33804), (121, 33693), (124, 33660), (128, 33630),

Gene: OverPar_37 Start: 30706, Stop: 30245, Start Num: 54
Candidate Starts for OverPar_37:
(Start: 54 @30706 has 206 MA's), (77, 30619), (90, 30565), (93, 30547), (115, 30469), (124, 30421),

Gene: PYPDinur_33 Start: 29627, Stop: 29169, Start Num: 54
Candidate Starts for PYPDinur_33:
(17, 29696), (22, 29678), (Start: 54 @29627 has 206 MA's), (70, 29567), (76, 29549), (124, 29345), (129, 29312), (136, 29213),

Gene: PaddyBaddy_40 Start: 33940, Stop: 33554, Start Num: 54
Candidate Starts for PaddyBaddy_40:
(Start: 54 @33940 has 206 MA's), (82, 33838), (87, 33814), (121, 33703), (124, 33670), (128, 33640),

Gene: PainterBoy_34 Start: 25178, Stop: 25543, Start Num: 52
Candidate Starts for PainterBoy_34:
(Start: 52 @25178 has 2 MA's), (Start: 55 @25184 has 48 MA's), (Start: 63 @25202 has 2 MA's), (Start: 65 @25208 has 5 MA's), (73, 25253), (89, 25322), (96, 25358), (128, 25508), (130, 25523),

Gene: Palpatine_38 Start: 33960, Stop: 33574, Start Num: 54
Candidate Starts for Palpatine_38:
(Start: 54 @33960 has 206 MA's), (82, 33858), (87, 33834), (121, 33723), (124, 33690), (128, 33660),

Gene: Paperbeatsrock_40 Start: 34943, Stop: 34557, Start Num: 54
Candidate Starts for Paperbeatsrock_40:
(Start: 54 @34943 has 206 MA's), (82, 34841), (87, 34817), (121, 34706), (124, 34673), (128, 34643),

Gene: Pat3_39 Start: 32980, Stop: 32594, Start Num: 54
Candidate Starts for Pat3_39:
(2, 33184), (Start: 54 @32980 has 206 MA's), (82, 32878), (87, 32854), (121, 32743), (124, 32710), (128, 32680),

Gene: Pavo_50 Start: 35838, Stop: 36149, Start Num: 61

Candidate Starts for Pavo_50:

(Start: 53 @35823 has 12 MA's), (Start: 61 @35838 has 1 MA's), (Start: 63 @35844 has 2 MA's), (66, 35853), (Start: 72 @35889 has 1 MA's), (76, 35901), (77, 35910), (87, 35952), (88, 35955), (97, 35994), (123, 36081), (128, 36117),

Gene: PegLeg_3 Start: 1872, Stop: 1495, Start Num: 55

Candidate Starts for PegLeg_3:

(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: Petra64142_40 Start: 34423, Stop: 34037, Start Num: 54

Candidate Starts for Petra64142_40:

(Start: 54 @34423 has 206 MA's), (82, 34321), (87, 34297), (121, 34186), (124, 34153), (128, 34123),

Gene: Phaja_38 Start: 34201, Stop: 33815, Start Num: 54

Candidate Starts for Phaja_38:

(Start: 54 @34201 has 206 MA's), (82, 34099), (87, 34075), (121, 33964), (124, 33931), (128, 33901),

Gene: Pharsalus_39 Start: 34743, Stop: 34357, Start Num: 54

Candidate Starts for Pharsalus_39:

(Start: 54 @34743 has 206 MA's), (82, 34641), (87, 34617), (121, 34506), (124, 34473), (128, 34443),

Gene: PhatBacter_38 Start: 33974, Stop: 33588, Start Num: 54

Candidate Starts for PhatBacter_38:

(Start: 54 @33974 has 206 MA's), (82, 33872), (87, 33848), (121, 33737), (124, 33704), (128, 33674),

Gene: Phaux_37 Start: 33972, Stop: 33586, Start Num: 54

Candidate Starts for Phaux_37:

(Start: 54 @33972 has 206 MA's), (82, 33870), (87, 33846), (121, 33735), (124, 33702), (128, 33672),

Gene: PhinkBoden_60 Start: 41639, Stop: 41304, Start Num: 48

Candidate Starts for PhinkBoden_60:

(Start: 48 @41639 has 23 MA's), (Start: 61 @41615 has 1 MA's), (Start: 62 @41612 has 1 MA's), (77, 41543), (86, 41507), (98, 41441), (99, 41438), (124, 41363), (127, 41345), (129, 41330),

Gene: Phoebus_58 Start: 46702, Stop: 46352, Start Num: 57

Candidate Starts for Phoebus_58:

(Start: 57 @46702 has 33 MA's), (64, 46690), (66, 46684), (103, 46501), (117, 46474), (124, 46432),

Gene: Phrux_39 Start: 33926, Stop: 33540, Start Num: 54

Candidate Starts for Phrux_39:

(Start: 54 @33926 has 206 MA's), (82, 33824), (87, 33800), (121, 33689), (124, 33656), (128, 33626),

Gene: Policronamos_38 Start: 33972, Stop: 33586, Start Num: 54

Candidate Starts for Policronamos_38:

(Start: 54 @33972 has 206 MA's), (82, 33870), (87, 33846), (121, 33735), (124, 33702), (128, 33672),

Gene: Ponzi_63 Start: 44647, Stop: 44312, Start Num: 54

Candidate Starts for Ponzi_63:

(Start: 54 @44647 has 206 MA's), (Start: 72 @44584 has 1 MA's), (127, 44356),

Gene: Poochiewood_33 Start: 29497, Stop: 29069, Start Num: 54

Candidate Starts for Poochiewood_33:

(Start: 54 @29497 has 206 MA's), (Start: 65 @29473 has 5 MA's), (90, 29356), (98, 29308), (129, 29179),

Gene: Porcelain_55 Start: 42634, Stop: 42275, Start Num: 59

Candidate Starts for Porcelain_55:

(Start: 38 @42673 has 2 MA's), (Start: 59 @42634 has 6 MA's), (Start: 65 @42619 has 5 MA's), (106, 42421),

Gene: Porky_38 Start: 33882, Stop: 33496, Start Num: 54

Candidate Starts for Porky_38:

(Start: 54 @33882 has 206 MA's), (82, 33780), (87, 33756), (121, 33645), (124, 33612), (128, 33582),

Gene: Pound_59 Start: 47836, Stop: 47486, Start Num: 57

Candidate Starts for Pound_59:

(Start: 57 @47836 has 33 MA's), (64, 47824), (66, 47818), (103, 47635), (124, 47566),

Gene: Provolone_50 Start: 35226, Stop: 35531, Start Num: 63

Candidate Starts for Provolone_50:

(Start: 53 @35205 has 12 MA's), (Start: 61 @35220 has 1 MA's), (Start: 63 @35226 has 2 MA's), (66, 35235), (Start: 72 @35271 has 1 MA's), (76, 35283), (77, 35292), (87, 35334), (88, 35337), (97, 35376), (123, 35463), (128, 35499),

Gene: Ptowny_40 Start: 33568, Stop: 33182, Start Num: 54

Candidate Starts for Ptowny_40:

(Start: 54 @33568 has 206 MA's), (82, 33466), (87, 33442), (121, 33331), (124, 33298), (128, 33268),

Gene: Pumpkin_42 Start: 34852, Stop: 34466, Start Num: 54

Candidate Starts for Pumpkin_42:

(Start: 54 @34852 has 206 MA's), (82, 34750), (87, 34726), (121, 34615), (124, 34582), (128, 34552),

Gene: Quallification_39 Start: 34169, Stop: 33783, Start Num: 54

Candidate Starts for Quallification_39:

(Start: 54 @34169 has 206 MA's), (82, 34067), (87, 34043), (121, 33932), (124, 33899), (128, 33869),

Gene: Quby_33 Start: 29521, Stop: 29063, Start Num: 54

Candidate Starts for Quby_33:

(15, 29599), (17, 29590), (22, 29572), (Start: 54 @29521 has 206 MA's), (70, 29461), (76, 29443), (124, 29239), (129, 29206), (136, 29107),

Gene: Rabbitrun_40 Start: 32577, Stop: 32227, Start Num: 48

Candidate Starts for Rabbitrun_40:

(Start: 48 @32577 has 23 MA's), (Start: 72 @32502 has 1 MA's), (82, 32463), (90, 32427), (124, 32289),

Gene: Rahalelujah_32 Start: 24692, Stop: 25045, Start Num: 55

Candidate Starts for Rahalelujah_32:

(39, 24662), (Start: 55 @24692 has 48 MA's), (Start: 63 @24710 has 2 MA's), (Start: 65 @24716 has 5 MA's), (80, 24788), (129, 25013),

Gene: Rakim_39 Start: 34069, Stop: 33683, Start Num: 54

Candidate Starts for Rakim_39:

(Start: 54 @34069 has 206 MA's), (82, 33967), (87, 33943), (121, 33832), (124, 33799), (128, 33769),

Gene: Ravana_35 Start: 23523, Stop: 23855, Start Num: 65

Candidate Starts for Ravana_35:

(Start: 11 @23409 has 3 MA's), (43, 23481), (Start: 55 @23499 has 48 MA's), (Start: 61 @23511 has 1 MA's), (Start: 65 @23523 has 5 MA's), (74, 23568), (87, 23625), (90, 23637), (101, 23700), (126, 23808), (129, 23826),

Gene: ReMo_34 Start: 23535, Stop: 23891, Start Num: 55

Candidate Starts for ReMo_34:

(Start: 11 @23445 has 3 MA's), (43, 23517), (Start: 55 @23535 has 48 MA's), (Start: 61 @23547 has 1 MA's), (Start: 65 @23559 has 5 MA's), (74, 23604), (87, 23661), (90, 23673), (101, 23736), (126, 23844), (129, 23862),

Gene: Rearden_53 Start: 42761, Stop: 42411, Start Num: 57

Candidate Starts for Rearden_53:

(Start: 57 @42761 has 33 MA's), (64, 42749), (66, 42743), (103, 42560), (124, 42491),

Gene: Red305_34 Start: 30921, Stop: 30484, Start Num: 54

Candidate Starts for Red305_34:

(Start: 54 @30921 has 206 MA's), (90, 30780), (123, 30636), (129, 30597),

Gene: Redno2_56 Start: 43297, Stop: 42947, Start Num: 57

Candidate Starts for Redno2_56:

(Start: 57 @43297 has 33 MA's), (64, 43285), (66, 43279), (103, 43096), (117, 43069), (124, 43027),

Gene: Reindeer_3 Start: 1876, Stop: 1499, Start Num: 55

Candidate Starts for Reindeer_3:

(Start: 55 @1876 has 48 MA's), (Start: 63 @1858 has 2 MA's), (78, 1786), (111, 1633), (112, 1627), (113, 1621), (121, 1597),

Gene: Remus_34 Start: 23409, Stop: 23855, Start Num: 11

Candidate Starts for Remus_34:

(Start: 11 @23409 has 3 MA's), (43, 23481), (Start: 55 @23499 has 48 MA's), (Start: 61 @23511 has 1 MA's), (Start: 65 @23523 has 5 MA's), (74, 23568), (87, 23625), (90, 23637), (101, 23700), (126, 23808), (129, 23826),

Gene: Rey_3 Start: 1915, Stop: 1526, Start Num: 55

Candidate Starts for Rey_3:

(21, 1978), (Start: 24 @1975 has 1 MA's), (27, 1972), (Start: 55 @1915 has 48 MA's), (Start: 61 @1903 has 1 MA's), (Start: 65 @1891 has 5 MA's), (124, 1591), (127, 1573),

Gene: Rimmer_37 Start: 33512, Stop: 33126, Start Num: 54

Candidate Starts for Rimmer_37:

(Start: 54 @33512 has 206 MA's), (82, 33410), (87, 33386), (121, 33275), (124, 33242), (128, 33212),

Gene: RiverMonster_38 Start: 33701, Stop: 33315, Start Num: 54

Candidate Starts for RiverMonster_38:

(Start: 54 @33701 has 206 MA's), (82, 33599), (87, 33575), (121, 33464), (124, 33431), (128, 33401),

Gene: Ronaldo_67 Start: 37168, Stop: 36812, Start Num: 47

Candidate Starts for Ronaldo_67:

(Start: 47 @37168 has 6 MA's), (56, 37153), (131, 36850),

Gene: Ronaldo_30 Start: 8708, Stop: 8367, Start Num: 46

Candidate Starts for Ronaldo_30:

(Start: 46 @8708 has 6 MA's), (Start: 63 @8675 has 2 MA's), (Start: 72 @8627 has 1 MA's), (82, 8588), (90, 8552), (126, 8417),

Gene: Rosalind_34 Start: 23657, Stop: 24013, Start Num: 55

Candidate Starts for Rosalind_34:

(Start: 11 @23567 has 3 MA's), (43, 23639), (Start: 55 @23657 has 48 MA's), (Start: 61 @23669 has 1 MA's), (Start: 65 @23681 has 5 MA's), (74, 23726), (87, 23783), (90, 23795), (101, 23858), (126, 23966), (129, 23984),

Gene: Rose5_33 Start: 29496, Stop: 29068, Start Num: 54

Candidate Starts for Rose5_33:

(Start: 54 @29496 has 206 MA's), (Start: 65 @29472 has 5 MA's), (90, 29355), (98, 29307), (129, 29178),

Gene: RoseMarie_3 Start: 1872, Stop: 1495, Start Num: 55

Candidate Starts for RoseMarie_3:

(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: Rossetti_36 Start: 30948, Stop: 30484, Start Num: 54

Candidate Starts for Rossetti_36:

(Start: 54 @30948 has 206 MA's), (77, 30861), (90, 30807), (93, 30789), (115, 30711), (124, 30663),

Gene: Rumpelstiltskin_36 Start: 30942, Stop: 30481, Start Num: 54

Candidate Starts for Rumpelstiltskin_36:

(19, 31005), (23, 30996), (30, 30987), (Start: 54 @30942 has 206 MA's), (77, 30855), (90, 30801), (115, 30705), (124, 30657),

Gene: Saftant_48 Start: 35531, Stop: 35857, Start Num: 53

Candidate Starts for Saftant_48:

(Start: 53 @35531 has 12 MA's), (Start: 61 @35546 has 1 MA's), (Start: 63 @35552 has 2 MA's), (66, 35561), (87, 35660), (88, 35663), (90, 35672), (97, 35702), (116, 35747), (128, 35825),

Gene: Saints25_40 Start: 33715, Stop: 33329, Start Num: 54

Candidate Starts for Saints25_40:

(Start: 54 @33715 has 206 MA's), (82, 33613), (87, 33589), (121, 33478), (124, 33445), (128, 33415),

Gene: Samty_34 Start: 30922, Stop: 30485, Start Num: 54

Candidate Starts for Samty_34:

(Start: 54 @30922 has 206 MA's), (90, 30781), (123, 30637), (129, 30598),

Gene: Sarshaun_36 Start: 30708, Stop: 30244, Start Num: 54

Candidate Starts for Sarshaun_36:

(Start: 54 @30708 has 206 MA's), (77, 30621), (90, 30567), (93, 30549), (115, 30471), (121, 30456), (124, 30423),

Gene: Sassay_37 Start: 33450, Stop: 33064, Start Num: 54

Candidate Starts for Sassay_37:

(Start: 54 @33450 has 206 MA's), (82, 33348), (87, 33324), (121, 33213), (124, 33180), (128, 33150),

Gene: Schatzie_54 Start: 45292, Stop: 44942, Start Num: 57

Candidate Starts for Schatzie_54:

(Start: 57 @45292 has 33 MA's), (64, 45280), (66, 45274), (87, 45175), (103, 45091), (117, 45064), (124, 45022),

Gene: Sephiroth_38 Start: 31023, Stop: 30655, Start Num: 48
Candidate Starts for Sephiroth_38:
(Start: 48 @31023 has 23 MA's), (90, 30870), (124, 30729), (129, 30696),

Gene: Shaboozey_53 Start: 41155, Stop: 40796, Start Num: 59
Candidate Starts for Shaboozey_53:
(Start: 38 @41194 has 2 MA's), (Start: 59 @41155 has 6 MA's),

Gene: ShamWow_40 Start: 34638, Stop: 34252, Start Num: 54
Candidate Starts for ShamWow_40:
(Start: 54 @34638 has 206 MA's), (82, 34536), (87, 34512), (121, 34401), (124, 34368), (128, 34338),

Gene: ShayRa_35 Start: 23657, Stop: 24013, Start Num: 55
Candidate Starts for ShayRa_35:
(Start: 11 @23567 has 3 MA's), (43, 23639), (Start: 55 @23657 has 48 MA's), (Start: 61 @23669 has 1 MA's), (Start: 65 @23681 has 5 MA's), (74, 23726), (87, 23783), (90, 23795), (101, 23858), (126, 23966), (129, 23984),

Gene: Sheng711_33 Start: 29627, Stop: 29169, Start Num: 54
Candidate Starts for Sheng711_33:
(17, 29696), (22, 29678), (Start: 54 @29627 has 206 MA's), (70, 29567), (76, 29549), (124, 29345), (129, 29312), (136, 29213),

Gene: ShereKhan_40 Start: 34946, Stop: 34560, Start Num: 54
Candidate Starts for ShereKhan_40:
(Start: 54 @34946 has 206 MA's), (82, 34844), (87, 34820), (121, 34709), (124, 34676), (128, 34646),

Gene: Silverleaf_33 Start: 29496, Stop: 29068, Start Num: 54
Candidate Starts for Silverleaf_33:
(Start: 54 @29496 has 206 MA's), (Start: 65 @29472 has 5 MA's), (90, 29355), (98, 29307), (129, 29178),

Gene: Simpliphy_40 Start: 33790, Stop: 33404, Start Num: 54
Candidate Starts for Simpliphy_40:
(Start: 54 @33790 has 206 MA's), (82, 33688), (87, 33664), (121, 33553), (124, 33520), (128, 33490),

Gene: SirDuracell_38 Start: 32722, Stop: 32336, Start Num: 54
Candidate Starts for SirDuracell_38:
(2, 32926), (Start: 54 @32722 has 206 MA's), (82, 32620), (87, 32596), (121, 32485), (124, 32452), (128, 32422),

Gene: Skinny_4 Start: 1872, Stop: 1495, Start Num: 55
Candidate Starts for Skinny_4:
(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: SlimJimmy_3 Start: 1872, Stop: 1495, Start Num: 55
Candidate Starts for SlimJimmy_3:
(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: Smoothie_62 Start: 41485, Stop: 41150, Start Num: 48

Candidate Starts for Smoothie_62:

(Start: 48 @41485 has 23 MA's), (Start: 61 @41461 has 1 MA's), (Start: 62 @41458 has 1 MA's), (77, 41389), (86, 41353), (98, 41287), (124, 41209), (127, 41191), (129, 41176),

Gene: Snenia_34 Start: 30922, Stop: 30485, Start Num: 54

Candidate Starts for Snenia_34:

(Start: 54 @30922 has 206 MA's), (90, 30781), (123, 30637), (129, 30598),

Gene: SoJulia_37 Start: 30935, Stop: 30474, Start Num: 54

Candidate Starts for SoJulia_37:

(Start: 54 @30935 has 206 MA's), (77, 30848), (90, 30794), (115, 30698), (124, 30650),

Gene: Soap141_36 Start: 30708, Stop: 30244, Start Num: 54

Candidate Starts for Soap141_36:

(Start: 54 @30708 has 206 MA's), (77, 30621), (90, 30567), (93, 30549), (115, 30471), (121, 30456), (124, 30423),

Gene: SophKB_38 Start: 33962, Stop: 33576, Start Num: 54

Candidate Starts for SophKB_38:

(Start: 54 @33962 has 206 MA's), (82, 33860), (87, 33836), (121, 33725), (124, 33692), (128, 33662),

Gene: SororFago_34 Start: 25881, Stop: 26237, Start Num: 55

Candidate Starts for SororFago_34:

(Start: 55 @25881 has 48 MA's), (Start: 63 @25899 has 2 MA's), (88, 26013), (96, 26055), (98, 26070),

Gene: Sotrice96_38 Start: 33917, Stop: 33531, Start Num: 54

Candidate Starts for Sotrice96_38:

(Start: 54 @33917 has 206 MA's), (82, 33815), (87, 33791), (121, 33680), (124, 33647), (128, 33617),

Gene: Soups_34 Start: 23657, Stop: 24013, Start Num: 55

Candidate Starts for Soups_34:

(Start: 11 @23567 has 3 MA's), (43, 23639), (Start: 55 @23657 has 48 MA's), (Start: 61 @23669 has 1 MA's), (Start: 65 @23681 has 5 MA's), (74, 23726), (87, 23783), (90, 23795), (101, 23858), (126, 23966), (129, 23984),

Gene: SpeedDemon_440 Start: 41598, Stop: 41236, Start Num: 50

Candidate Starts for SpeedDemon_440:

(7, 41721), (34, 41631), (Start: 50 @41598 has 8 MA's), (Start: 65 @41565 has 5 MA's), (69, 41535), (70, 41532), (Start: 72 @41526 has 1 MA's), (91, 41442), (118, 41340),

Gene: Speedwell_53 Start: 36882, Stop: 37202, Start Num: 53

Candidate Starts for Speedwell_53:

(Start: 53 @36882 has 12 MA's), (Start: 62 @36900 has 1 MA's), (Start: 65 @36909 has 5 MA's), (66, 36912), (Start: 72 @36948 has 1 MA's), (87, 37011), (88, 37014), (97, 37053), (105, 37083), (125, 37146), (132, 37194),

Gene: Spooks_70 Start: 47151, Stop: 46807, Start Num: 54

Candidate Starts for Spooks_70:

(Start: 54 @47151 has 206 MA's), (Start: 72 @47088 has 1 MA's),

Gene: Squint_56 Start: 42792, Stop: 42394, Start Num: 38

Candidate Starts for Squint_56:

(Start: 38 @42792 has 2 MA's), (Start: 59 @42753 has 6 MA's), (Start: 65 @42738 has 5 MA's), (106, 42540),

Gene: Stank_41 Start: 34469, Stop: 34083, Start Num: 54

Candidate Starts for Stank_41:

(Start: 54 @34469 has 206 MA's), (82, 34367), (87, 34343), (121, 34232), (124, 34199), (128, 34169),

Gene: Stark_39 Start: 33704, Stop: 33318, Start Num: 54

Candidate Starts for Stark_39:

(Start: 54 @33704 has 206 MA's), (82, 33602), (87, 33578), (121, 33467), (124, 33434), (128, 33404),

Gene: StellaBean_38 Start: 33962, Stop: 33576, Start Num: 54

Candidate Starts for StellaBean_38:

(Start: 54 @33962 has 206 MA's), (82, 33860), (87, 33836), (121, 33725), (124, 33692), (128, 33662),

Gene: Stellammi_56 Start: 33236, Stop: 32898, Start Num: 57

Candidate Starts for Stellammi_56:

(Start: 57 @33236 has 33 MA's), (Start: 61 @33230 has 1 MA's), (Start: 72 @33185 has 1 MA's), (92, 33098), (123, 32972), (124, 32966),

Gene: StolenFromERC_40 Start: 33953, Stop: 33567, Start Num: 54

Candidate Starts for StolenFromERC_40:

(Start: 54 @33953 has 206 MA's), (82, 33851), (87, 33827), (121, 33716), (124, 33683), (128, 33653),

Gene: StormChicken_38 Start: 34120, Stop: 33734, Start Num: 54

Candidate Starts for StormChicken_38:

(Start: 54 @34120 has 206 MA's), (82, 34018), (87, 33994), (121, 33883), (124, 33850), (128, 33820),

Gene: Strosahl_34 Start: 23499, Stop: 23855, Start Num: 55

Candidate Starts for Strosahl_34:

(Start: 11 @23409 has 3 MA's), (43, 23481), (Start: 55 @23499 has 48 MA's), (Start: 61 @23511 has 1 MA's), (Start: 65 @23523 has 5 MA's), (74, 23568), (87, 23625), (90, 23637), (101, 23700), (126, 23808), (129, 23826),

Gene: Success_71 Start: 46275, Stop: 45934, Start Num: 54

Candidate Starts for Success_71:

(Start: 54 @46275 has 206 MA's), (Start: 72 @46212 has 1 MA's), (92, 46125),

Gene: Sudan_50 Start: 35694, Stop: 36002, Start Num: 62

Candidate Starts for Sudan_50:

(Start: 53 @35676 has 12 MA's), (Start: 62 @35694 has 1 MA's), (Start: 72 @35742 has 1 MA's), (76, 35754), (90, 35817), (97, 35847), (128, 35970),

Gene: Sunhee_32 Start: 24708, Stop: 25064, Start Num: 55

Candidate Starts for Sunhee_32:

(42, 24684), (Start: 52 @24702 has 2 MA's), (Start: 55 @24708 has 48 MA's), (Start: 61 @24720 has 1 MA's), (88, 24840), (109, 24936), (119, 24963), (129, 25032),

Gene: SunkenRoot_50 Start: 36364, Stop: 36675, Start Num: 61

Candidate Starts for SunkenRoot_50:

(Start: 53 @36349 has 12 MA's), (Start: 61 @36364 has 1 MA's), (Start: 63 @36370 has 2 MA's), (Start: 72 @36415 has 1 MA's), (76, 36427), (77, 36436), (87, 36478), (88, 36481), (97, 36520), (123, 36607), (128, 36643),

Gene: Superphikiman_57 Start: 42825, Stop: 42466, Start Num: 59
Candidate Starts for Superphikiman_57:
(Start: 38 @42864 has 2 MA's), (Start: 59 @42825 has 6 MA's), (Start: 65 @42810 has 5 MA's), (106, 42612),

Gene: Switzerland_34 Start: 23567, Stop: 24007, Start Num: 13
Candidate Starts for Switzerland_34:
(Start: 13 @23567 has 1 MA's), (17, 23582), (43, 23633), (Start: 55 @23651 has 48 MA's), (Start: 61 @23663 has 1 MA's), (Start: 65 @23675 has 5 MA's), (74, 23720), (87, 23777), (90, 23789), (101, 23852), (126, 23960), (129, 23978),

Gene: Syleon_38 Start: 30945, Stop: 30577, Start Num: 48
Candidate Starts for Syleon_38:
(Start: 48 @30945 has 23 MA's), (90, 30792), (124, 30651), (129, 30618),

Gene: TBrady12_40 Start: 33953, Stop: 33567, Start Num: 54
Candidate Starts for TBrady12_40:
(Start: 54 @33953 has 206 MA's), (82, 33851), (87, 33827), (121, 33716), (124, 33683), (128, 33653),

Gene: Tarkin_40 Start: 34952, Stop: 34566, Start Num: 54
Candidate Starts for Tarkin_40:
(Start: 54 @34952 has 206 MA's), (82, 34850), (87, 34826), (121, 34715), (124, 34682), (128, 34652),

Gene: TeamEdward_38 Start: 34117, Stop: 33731, Start Num: 54
Candidate Starts for TeamEdward_38:
(Start: 54 @34117 has 206 MA's), (82, 34015), (87, 33991), (121, 33880), (124, 33847), (128, 33817),

Gene: TeardropMSU_37 Start: 33862, Stop: 33476, Start Num: 54
Candidate Starts for TeardropMSU_37:
(Start: 54 @33862 has 206 MA's), (82, 33760), (87, 33736), (121, 33625), (124, 33592), (128, 33562),

Gene: Teaspoon_40 Start: 34588, Stop: 34202, Start Num: 54
Candidate Starts for Teaspoon_40:
(Start: 54 @34588 has 206 MA's), (82, 34486), (87, 34462), (121, 34351), (124, 34318), (128, 34288),

Gene: Terminus_38 Start: 34033, Stop: 33647, Start Num: 54
Candidate Starts for Terminus_38:
(Start: 54 @34033 has 206 MA's), (82, 33931), (87, 33907), (121, 33796), (124, 33763), (128, 33733),

Gene: Thibault_51 Start: 43608, Stop: 43258, Start Num: 57
Candidate Starts for Thibault_51:
(Start: 57 @43608 has 33 MA's), (64, 43596), (66, 43590), (103, 43407), (124, 43338),

Gene: Thimble_39 Start: 33135, Stop: 32749, Start Num: 54
Candidate Starts for Thimble_39:
(Start: 54 @33135 has 206 MA's), (82, 33033), (87, 33009), (121, 32898), (124, 32865), (128, 32835),

Gene: ThreeRngTarjay_57 Start: 46578, Stop: 46228, Start Num: 57
Candidate Starts for ThreeRngTarjay_57:
(Start: 57 @46578 has 33 MA's), (64, 46566), (66, 46560), (103, 46377), (117, 46350), (124, 46308),

Gene: Thresher_40 Start: 34939, Stop: 34553, Start Num: 54

Candidate Starts for Thresher_40:

(Start: 54 @34939 has 206 MA's), (82, 34837), (87, 34813), (121, 34702), (124, 34669), (128, 34639),

Gene: Toaka_32 Start: 25087, Stop: 25443, Start Num: 55

Candidate Starts for Toaka_32:

(30, 25036), (35, 25048), (Start: 38 @25054 has 2 MA's), (Start: 55 @25087 has 48 MA's), (Start: 63 @25105 has 2 MA's), (Start: 65 @25111 has 5 MA's), (69, 25144), (80, 25183), (87, 25216), (103, 25300),

Gene: Tomaszewski_38 Start: 33782, Stop: 33396, Start Num: 54

Candidate Starts for Tomaszewski_38:

(Start: 54 @33782 has 206 MA's), (82, 33680), (87, 33656), (121, 33545), (124, 33512), (128, 33482),

Gene: Toniann_61 Start: 41201, Stop: 40866, Start Num: 48

Candidate Starts for Toniann_61:

(Start: 48 @41201 has 23 MA's), (Start: 61 @41177 has 1 MA's), (Start: 62 @41174 has 1 MA's), (77, 41105), (86, 41069), (98, 41003), (99, 41000), (124, 40925), (127, 40907), (129, 40892),

Gene: Toto_39 Start: 34638, Stop: 34252, Start Num: 54

Candidate Starts for Toto_39:

(Start: 54 @34638 has 206 MA's), (82, 34536), (87, 34512), (121, 34401), (124, 34368), (128, 34338),

Gene: Tourach_36 Start: 30674, Stop: 30207, Start Num: 54

Candidate Starts for Tourach_36:

(Start: 54 @30674 has 206 MA's), (90, 30533), (115, 30437), (124, 30389),

Gene: Towmatter_39 Start: 36511, Stop: 36152, Start Num: 50

Candidate Starts for Towmatter_39:

(Start: 50 @36511 has 8 MA's), (69, 36448), (70, 36445), (77, 36418), (81, 36406), (90, 36364), (118, 36256), (121, 36247), (122, 36232), (124, 36214),

Gene: TpudiCK_3 Start: 1872, Stop: 1495, Start Num: 55

Candidate Starts for TpudiCK_3:

(Start: 55 @1872 has 48 MA's), (78, 1782), (101, 1668), (121, 1590),

Gene: Traaww1_36 Start: 33584, Stop: 33198, Start Num: 54

Candidate Starts for Traaww1_36:

(Start: 54 @33584 has 206 MA's), (82, 33482), (87, 33458), (121, 33347), (124, 33314), (128, 33284),

Gene: Trax_38 Start: 32421, Stop: 32083, Start Num: 50

Candidate Starts for Trax_38:

(Start: 50 @32421 has 8 MA's), (Start: 72 @32349 has 1 MA's), (90, 32274), (101, 32220), (124, 32145), (129, 32112),

Gene: TriFive_34 Start: 30921, Stop: 30484, Start Num: 54

Candidate Starts for TriFive_34:

(Start: 54 @30921 has 206 MA's), (90, 30780), (123, 30636), (129, 30597),

Gene: Tuco_41 Start: 35146, Stop: 34760, Start Num: 54

Candidate Starts for Tuco_41:

(Start: 54 @35146 has 206 MA's), (82, 35044), (87, 35020), (121, 34909), (124, 34876), (128, 34846),

Gene: TyDawg_3 Start: 1873, Stop: 1496, Start Num: 55

Candidate Starts for TyDawg_3:

(Start: 55 @1873 has 48 MA's), (78, 1783), (101, 1669), (121, 1591),

Gene: Tyson_33 Start: 29497, Stop: 29069, Start Num: 54

Candidate Starts for Tyson_33:

(Start: 54 @29497 has 206 MA's), (Start: 65 @29473 has 5 MA's), (90, 29356), (98, 29308), (129, 29179),

Gene: UPIE_33 Start: 29494, Stop: 29066, Start Num: 54

Candidate Starts for UPIE_33:

(Start: 54 @29494 has 206 MA's), (Start: 65 @29470 has 5 MA's), (90, 29353), (98, 29305), (129, 29176),

Gene: Ukulele_39 Start: 33943, Stop: 33557, Start Num: 54

Candidate Starts for Ukulele_39:

(Start: 54 @33943 has 206 MA's), (82, 33841), (87, 33817), (121, 33706), (124, 33673), (128, 33643),

Gene: Underpass_36 Start: 30676, Stop: 30215, Start Num: 54

Candidate Starts for Underpass_36:

(Start: 54 @30676 has 206 MA's), (77, 30589), (90, 30535), (93, 30517), (115, 30439), (124, 30391),

Gene: Urza_48 Start: 32294, Stop: 32611, Start Num: 53

Candidate Starts for Urza_48:

(4, 32120), (8, 32168), (31, 32246), (Start: 53 @32294 has 12 MA's), (114, 32495), (124, 32543), (127, 32561), (128, 32573), (131, 32597),

Gene: Vanisoa_33 Start: 26326, Stop: 26682, Start Num: 55

Candidate Starts for Vanisoa_33:

(31, 26287), (Start: 55 @26326 has 48 MA's), (Start: 63 @26344 has 2 MA's), (Start: 65 @26350 has 5 MA's), (80, 26422), (103, 26539),

Gene: Vanseggelen_54 Start: 35360, Stop: 35674, Start Num: 61

Candidate Starts for Vanseggelen_54:

(Start: 53 @35345 has 12 MA's), (Start: 61 @35360 has 1 MA's), (Start: 63 @35366 has 2 MA's), (66, 35375), (Start: 72 @35411 has 1 MA's), (76, 35423), (87, 35474), (88, 35477), (97, 35516), (124, 35609), (128, 35639),

Gene: Verabelle_53 Start: 35861, Stop: 36199, Start Num: 48

Candidate Starts for Verabelle_53:

(40, 35846), (Start: 48 @35861 has 23 MA's), (Start: 53 @35870 has 12 MA's), (Start: 61 @35885 has 1 MA's), (Start: 72 @35936 has 1 MA's), (82, 35975), (89, 36008), (90, 36011), (97, 36041), (124, 36134), (127, 36152), (128, 36164),

Gene: Verse_49 Start: 36587, Stop: 36847, Start Num: 72

Candidate Starts for Verse_49:

(Start: 53 @36521 has 12 MA's), (Start: 61 @36536 has 1 MA's), (Start: 63 @36542 has 2 MA's), (Start: 72 @36587 has 1 MA's), (76, 36599), (77, 36608), (87, 36650), (88, 36653), (97, 36692), (123, 36779), (128, 36815),

Gene: Vatrix_36 Start: 30680, Stop: 30219, Start Num: 54

Candidate Starts for Vatrix_36:

(Start: 54 @30680 has 206 MA's), (77, 30593), (90, 30539), (115, 30443), (124, 30395),

Gene: VieEnRose_48 Start: 32357, Stop: 32674, Start Num: 53

Candidate Starts for VieEnRose_48:

(31, 32309), (Start: 53 @32357 has 12 MA's), (92, 32510), (114, 32558), (124, 32606), (127, 32624), (128, 32636), (131, 32660),

Gene: Volt_29 Start: 8708, Stop: 8367, Start Num: 46

Candidate Starts for Volt_29:

(Start: 46 @8708 has 6 MA's), (Start: 63 @8675 has 2 MA's), (Start: 72 @8627 has 1 MA's), (82, 8588), (90, 8552), (126, 8417),

Gene: Volt_67 Start: 37332, Stop: 36976, Start Num: 47

Candidate Starts for Volt_67:

(Start: 47 @37332 has 6 MA's), (56, 37317), (131, 37014),

Gene: Waits_34 Start: 23529, Stop: 23861, Start Num: 65

Candidate Starts for Waits_34:

(Start: 11 @23415 has 3 MA's), (43, 23487), (Start: 55 @23505 has 48 MA's), (Start: 61 @23517 has 1 MA's), (Start: 65 @23529 has 5 MA's), (74, 23574), (87, 23631), (90, 23643), (101, 23706), (126, 23814), (129, 23832),

Gene: Wamburgexpress_33 Start: 29509, Stop: 29081, Start Num: 54

Candidate Starts for Wamburgexpress_33:

(Start: 54 @29509 has 206 MA's), (Start: 65 @29485 has 5 MA's), (90, 29368), (98, 29320), (129, 29191),

Gene: Wanda_65 Start: 46290, Stop: 45940, Start Num: 57

Candidate Starts for Wanda_65:

(Start: 57 @46290 has 33 MA's), (64, 46278), (66, 46272), (103, 46089), (117, 46062), (124, 46020),

Gene: Warrior24_34 Start: 23533, Stop: 23865, Start Num: 65

Candidate Starts for Warrior24_34:

(Start: 11 @23419 has 3 MA's), (43, 23491), (Start: 55 @23509 has 48 MA's), (Start: 61 @23521 has 1 MA's), (Start: 65 @23533 has 5 MA's), (74, 23578), (87, 23635), (90, 23647), (101, 23710), (126, 23818), (129, 23836),

Gene: Whirlwind_35 Start: 30700, Stop: 30230, Start Num: 38

Candidate Starts for Whirlwind_35:

(23, 30727), (Start: 38 @30700 has 2 MA's), (Start: 51 @30676 has 1 MA's), (Start: 54 @30670 has 206 MA's), (90, 30529), (123, 30385), (129, 30346),

Gene: Wiggin_41 Start: 34467, Stop: 34081, Start Num: 54

Candidate Starts for Wiggin_41:

(Start: 54 @34467 has 206 MA's), (82, 34365), (87, 34341), (121, 34230), (124, 34197), (128, 34167),

Gene: Wigglewigggle_36 Start: 30707, Stop: 30243, Start Num: 54

Candidate Starts for Wigglewigggle_36:

(Start: 54 @30707 has 206 MA's), (77, 30620), (90, 30566), (93, 30548), (115, 30470), (121, 30455), (124, 30422),

Gene: Wilder_36 Start: 30680, Stop: 30216, Start Num: 54

Candidate Starts for Wilder_36:

(Start: 54 @30680 has 206 MA's), (77, 30593), (90, 30539), (93, 30521), (115, 30443), (121, 30428), (124, 30395),

Gene: Willez_37 Start: 33450, Stop: 33064, Start Num: 54

Candidate Starts for Willez_37:

(Start: 54 @33450 has 206 MA's), (82, 33348), (87, 33324), (121, 33213), (124, 33180), (128, 33150),

Gene: WilliamBoone_60 Start: 40153, Stop: 39818, Start Num: 48

Candidate Starts for WilliamBoone_60:

(Start: 48 @40153 has 23 MA's), (Start: 58 @40135 has 1 MA's), (Start: 61 @40129 has 1 MA's), (86, 40021), (129, 39844),

Gene: Winky_36 Start: 30674, Stop: 30213, Start Num: 54

Candidate Starts for Winky_36:

(Start: 54 @30674 has 206 MA's), (77, 30587), (90, 30533), (115, 30437), (124, 30389),

Gene: WorldCup_31 Start: 24788, Stop: 25045, Start Num: 80

Candidate Starts for WorldCup_31:

(39, 24662), (Start: 55 @24692 has 48 MA's), (Start: 63 @24710 has 2 MA's), (Start: 65 @24716 has 5 MA's), (80, 24788), (129, 25013),

Gene: Wyatt2_33 Start: 29496, Stop: 29068, Start Num: 54

Candidate Starts for Wyatt2_33:

(Start: 54 @29496 has 206 MA's), (Start: 65 @29472 has 5 MA's), (90, 29355), (98, 29307), (129, 29178),

Gene: Xandras_40 Start: 33936, Stop: 33550, Start Num: 54

Candidate Starts for Xandras_40:

(Start: 54 @33936 has 206 MA's), (82, 33834), (87, 33810), (121, 33699), (124, 33666), (128, 33636),

Gene: Xiaokay_52 Start: 43214, Stop: 42864, Start Num: 57

Candidate Starts for Xiaokay_52:

(Start: 57 @43214 has 33 MA's), (64, 43202), (66, 43196), (103, 43013), (124, 42944),

Gene: Yappy_125 Start: 60796, Stop: 60413, Start Num: 55

Candidate Starts for Yappy_125:

(Start: 55 @60796 has 48 MA's), (90, 60664), (129, 60523), (135, 60475),

Gene: YassJohnny_39 Start: 34478, Stop: 34092, Start Num: 54

Candidate Starts for YassJohnny_39:

(Start: 54 @34478 has 206 MA's), (82, 34376), (87, 34352), (121, 34241), (124, 34208), (128, 34178),

Gene: Yeet_57 Start: 45711, Stop: 45361, Start Num: 57

Candidate Starts for Yeet_57:

(Start: 57 @45711 has 33 MA's), (64, 45699), (66, 45693), (87, 45594), (103, 45510), (124, 45441),

Gene: Yosif_51 Start: 36318, Stop: 36647, Start Num: 51

Candidate Starts for Yosif_51:

(6, 36186), (25, 36270), (29, 36276), (49, 36315), (Start: 51 @36318 has 1 MA's), (Start: 53 @36324 has 12 MA's), (Start: 72 @36390 has 1 MA's), (92, 36477), (124, 36585), (127, 36603),

Gene: Youngblood_38 Start: 34123, Stop: 33737, Start Num: 54

Candidate Starts for Youngblood_38:

(Start: 54 @34123 has 206 MA's), (82, 34021), (87, 33997), (121, 33886), (124, 33853), (128, 33823),

Gene: Zakai_36 Start: 30931, Stop: 30467, Start Num: 54

Candidate Starts for Zakai_36:

(Start: 54 @30931 has 206 MA's), (77, 30844), (90, 30790), (93, 30772), (115, 30694), (124, 30646),

Gene: ZamZam_51 Start: 35721, Stop: 36038, Start Num: 53

Candidate Starts for ZamZam_51:

(Start: 53 @35721 has 12 MA's), (66, 35751), (87, 35850), (88, 35853), (90, 35862), (97, 35892), (120, 35940), (124, 35976), (128, 36006),

Gene: Zaria_33 Start: 29511, Stop: 29083, Start Num: 54

Candidate Starts for Zaria_33:

(Start: 54 @29511 has 206 MA's), (Start: 65 @29487 has 5 MA's), (90, 29370), (98, 29322), (129, 29193),

Gene: Zelink_57 Start: 46891, Stop: 46541, Start Num: 57

Candidate Starts for Zelink_57:

(Start: 57 @46891 has 33 MA's), (64, 46879), (66, 46873), (103, 46690), (117, 46663), (124, 46621),

Gene: ZhongYanYuan_35 Start: 30506, Stop: 30036, Start Num: 54

Candidate Starts for ZhongYanYuan_35:

(Start: 54 @30506 has 206 MA's), (76, 30428), (77, 30419), (90, 30365), (115, 30269), (124, 30221), (129, 30188),

Gene: Ziko_30 Start: 8648, Stop: 8307, Start Num: 46

Candidate Starts for Ziko_30:

(Start: 46 @8648 has 6 MA's), (Start: 63 @8615 has 2 MA's), (Start: 72 @8567 has 1 MA's), (82, 8528), (90, 8492), (126, 8357),

Gene: Ziko_67 Start: 37154, Stop: 36798, Start Num: 47

Candidate Starts for Ziko_67:

(Start: 47 @37154 has 6 MA's), (56, 37139), (131, 36836),

Gene: phiCAM_46 Start: 37446, Stop: 37760, Start Num: 53

Candidate Starts for phiCAM_46:

(9, 37344), (Start: 53 @37446 has 12 MA's), (Start: 62 @37464 has 1 MA's), (66, 37476), (Start: 72 @37512 has 1 MA's), (87, 37575), (97, 37617),

Gene: xkcd_39 Start: 34115, Stop: 33729, Start Num: 54

Candidate Starts for xkcd_39:

(Start: 54 @34115 has 206 MA's), (82, 34013), (87, 33989), (121, 33878), (124, 33845), (128, 33815),