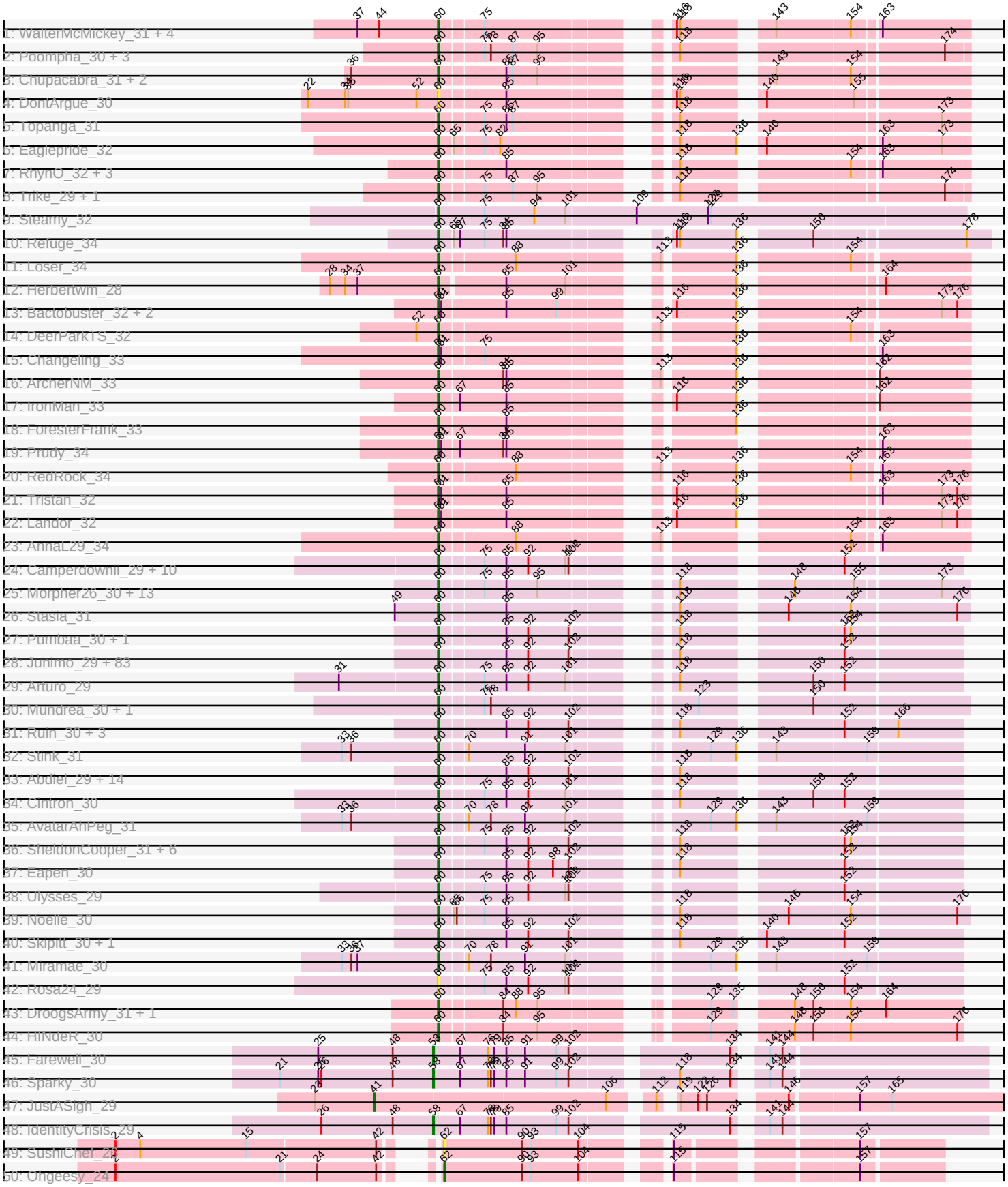
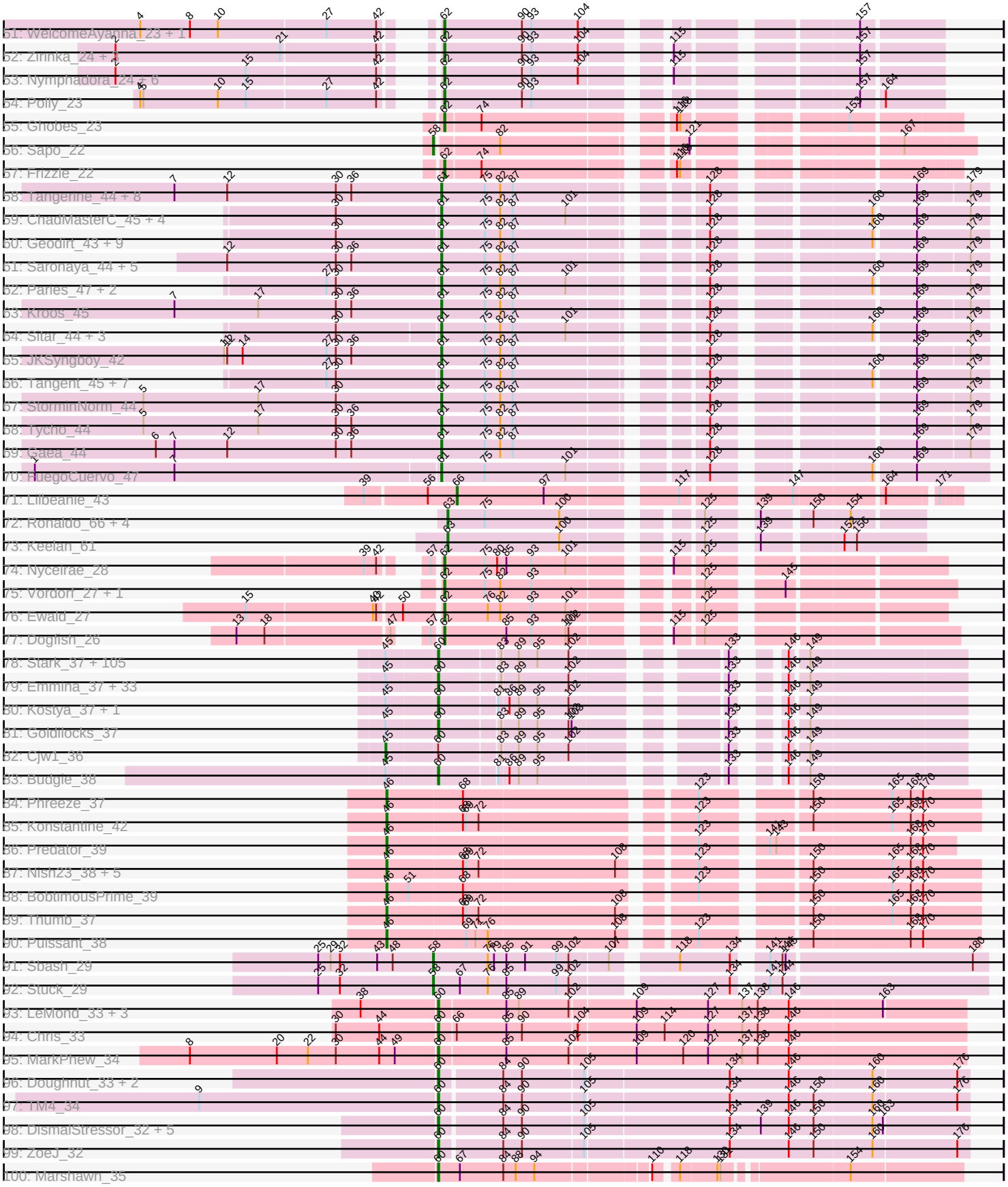
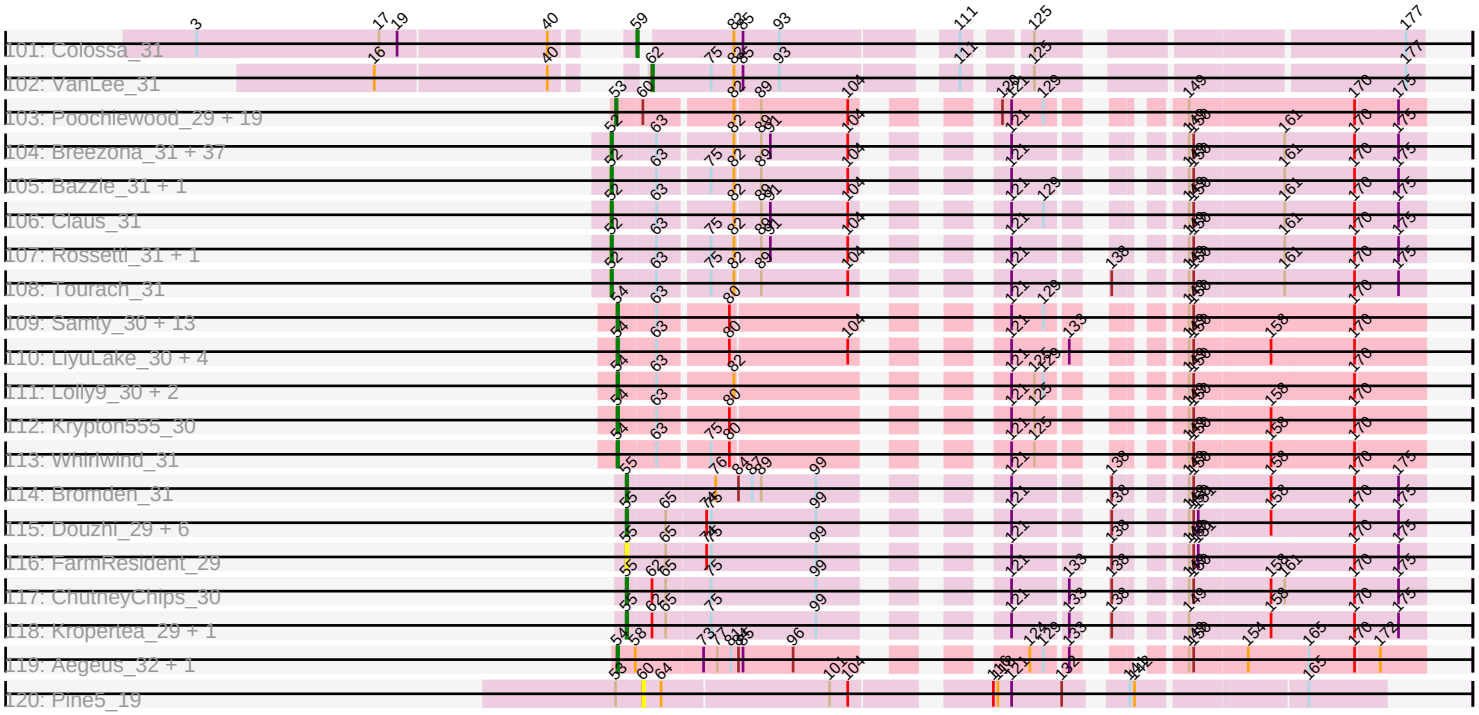
Pham 347063


1: WalterMcMickey_31 + 4
2: Poompha_30 + 3
3: Chupacabra_31 + 2
4: DontArgue_30
5: Topanga_31
6: Eaglepride_32
7: RhynO_32 + 3
8: Trike_29 + 1
9: Steamy_32
10: Refuge_34
11: Loser_34
12: Herbertwm_28
13: Bactobuster_32 + 2
14: DeerParkTS_32
15: Changeling_33
16: ArcherNM_33
17: IronMan_33
18: ForesterFrank_33
19: Prudy_34
20: RedRock_34
21: Tristan_32
22: Landor_32
23: AnnaL29_34
24: Camperdownii_29 + 10
25: Morpher26_30 + 13
26: Stasia_31
27: Pumbaa_30 + 1
28: Junimo_29 + 83
29: Arturo_29
30: Mundrea_30 + 1
31: Ruin_30 + 3
32: Stink_31
33: Abdiel_29 + 14
34: Cintron_30
35: AvatarAnPeg_31
36: SheldonCooper_31 + 6
37: Eapen_30
38: Ulysses_29
39: Noelle_30
40: Skipitt_30 + 1
41: Miramae_30
42: Rosa24_29
43: DroogsArmy_31 + 1
44: HiNdeR_30
45: Farewell_30
46: Sparky_30
47: JustASigh_29
48: IdentityCrisis_29
49: SushiChef_28
50: Ongeesy_24

Pham 347063



Pham 347063


101: Colossa_31
102: VanLee_31
103: Poochiewood_29 + 19
104: Breezona_31 + 37
105: Bazzie_31 + 1
106: Claus_31
107: Rossetti_31 + 1
108: Tourach_31
109: Samty_30 + 13
110: LiyuLake_30 + 4
111: Lolly9_30 + 2
112: Krypton555_30
113: Whirlwind_31
114: Bromden_31
115: Douzhi_29 + 6
116: FarmResident_29
117: ChutneyChips_30
118: Kropertea_29 + 1
119: Aegeus_32 + 1
120: Pine5_19

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 347063 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347063 has 560 members, 55 are drafts.

Phages represented in each track:
• Track 1 : WalterMcMickey_31, Twister_31, Kristoff_32, Edison31_31, Rebeuca_32
• Track 2 : Poompha_30, KittenMittens_30, PeaceMeal1_30, Drake94_30
• Track 3 : Chupacabra_31, Goose_31, OKCentral2016_31
• Track 4 : DontArgue_30
• Track 5 : Topanga_31
• Track 6 : Eaglepride_32
• Track 7 : RhynO_32, Shapes_35, Rowdy_35, DustyMartin_35
• Track 8 : Trike_29, Severus_30
• Track 9 : Steamy_32
• Track 10 : Refuge_34
• Track 11 : Loser_34
• Track 12 : Herbertwm_28
• Track 13 : Bactobuster_32, Jaan_34, Phaded_34
• Track 14 : DeerParkTS_32
• Track 15 : Changeling_33
• Track 16 : ArcherNM_33
• Track 17 : IronMan_33
• Track 18 : ForesterFrank_33
• Track 19 : Prudy_34
• Track 20 : RedRock_34
• Track 21 : Tristan_32
• Track 22 : Landor_32
• Track 23 : AnnaL29_34
• Track 24 : Camperdownii_29, LochMonster_30, DirtyDunning_30, Kratark_30, Huxley_30, Kyee_30, Tinybot_29, KFPoly_30, Thanksgivukkah_30, Iracema64_31, Phighter1804_30
• Track 25 : Morpher26_30, Datway_30, PetiteSangsue_30, Katalie136_30, AbbysRanger_30, Achebe_29, Wile_30, Perplexer_30, Backyardigan_30, Shygu2_30, Cici_30, Bumblebee11_30, Xena_30, Badger_30
• Track 26 : Stasia_31
• Track 27 : Pumbaa_30, Shaka_30
• Track 28 : Junimo_29, Bartimeaus_30, Wilbur_30, Bruiser_29, Skadoosh_30, NotAPhaseMom_30, TygerBlood_30, SteMason_30, Albee_30, RockieBear_30, Koan_30, Flux_30, Annyong_30, Bombshell_30, Sparxx_30, TiroTheta9_30, Sabertooth_30, JoongJeon_30, Melvin_30, OKaNui_31, Millski_29, PeterPeter_30, Burger_29, Broseidon_30, Phelipe_30, Lorenzo_30, Avle17_30, Alberto7_31, Relief_30, Buckaroo_29, CentreCat_30, TinaFeyge_30, Lemur_30, Caelakin_30,

Eris_29, LittleB_30, Druantia_30, Wander_30, Holli_30, Kingmustik0402_30, Romney_30, KekoraPapaka_29, BubbleTrouble_30, Baby16_30, Spino_30, Roosevelt_30, Cocoaberry_30, TroyPia_30, Taquarus_30, Pipcraft_30, ChampagnePapi_31, Scamp_30, Chaph_30, Iceman_31, Maverick_30, Mazhar510_30, NorthStar_30, Peaches_30, Northrop_30, Deano_30, HamSlice_29, Mayonnaise_30, JetBlade_30, Connomayer_30, Florean_30, SenorClean_30, ICleared_30, Koreni_29, Dhanush_30, Gadost_30, Citius_30, Wizard007_30, Lunsford_31, Sultana_30, Medusa_30, Funston_30, MeeZee_30, Blackmoor_30, Rocksand_30, Houdini22_30, Eros_30, Clarenza_30, Palestino_29, YoSam321_30
• Track 29 : Arturo_29
• Track 30 : Mundrea_30, Cindaradix_29
• Track 31 : Ruin_30, Nemo27_30, Kremtemulon_30, Phacado_30
• Track 32 : Stink_31
• Track 33 : Abdiel_29, Maxo_30, Kampy_30, Nyxis_30, Jaykayelowell_30, Commander_30, BellusTerra_30, Eurydice_30, Phontbonne_30, Ohfah_30, LeoAvram_30, Polymorphads_30, LittleGuy_30, Nebs_30, Morrow_30
• Track 34 : Cintron_30
• Track 35 : AvatarAhPeg_31
• Track 36 : SheldonCooper_31, Eagle_29, Obama12_31, Happiness_30, LHTSCC_31, BangNhom_30, Cerulean_31
• Track 37 : Eapen_30
• Track 38 : Ulysses_29
• Track 39 : Noelle_30
• Track 40 : Skipitt_30, LappelDuVide_30
• Track 41 : Miramae_30
• Track 42 : Rosa24_29
• Track 43 : DroogsArmy_31, Timshel_31
• Track 44 : HINdeR_30
• Track 45 : Farewell_30
• Track 46 : Sparky_30
• Track 47 : JustASigh_29
• Track 48 : IdentityCrisis_29
• Track 49 : SushiChef_26
• Track 50 : Ohgeesy_24
• Track 51 : WelcomeAyanna_23, ThankyouJordi_23
• Track 52 : Zirinka_24, Bialota_24, Madavieve_24, Madeline_24
• Track 53 : Nymphadora_24, Bosnia_24, Eviarto_24, BatStarr_24, TimTam_24, Hugley_24, Herod_24
• Track 54 : Polly_23
• Track 55 : Ghobes_23
• Track 56 : Sapo_22
• Track 57 : Frizzle_22
• Track 58 : Tangerine_44, Bizzy_45, SchottB_43, Stichling_42, Kwobi_46, LilHam_42, Baumdotcom_43, Flatwoods_45, Ribeye_45
• Track 59 : ChadMasterC_45, MoontowerMania_44, Barsten_45, Jabberwocky_43, Shivanishola_44
• Track 60 : Geodirt_43, Fosterous_42, Stultus_43, Vivi2_47, Kewpiedoll_44, Brawn1_41, McKinley_46, Thing3_42, Love_48, Kamashten_42
• Track 61 : Saronaya_44, Derg_40, Baddon_44, YorkOnyx_45, Ashertheman_45, Gustavo_44
• Track 62 : Paries_47, McCrothy_44, Galadriel_44
• Track 63 : Kroos_45
• Track 64 : Sitar_44, Angelicage_42, Affeca_42, Lennon_44

• Track 65 : JKSyngboy_42
• Track 66 : Tangent_45, Brandonk123_46, Sanjuju_43, Fitzgerald_43, Charming_45, Nordenberg_39, BobBob_42, Rofo_45
• Track 67 : StorminNorm_44
• Track 68 : Tycho_44
• Track 69 : Gaea_44
• Track 70 : FuegoCuervo_47
• Track 71 : Lilbeanie_43
• Track 72 : Ronaldo_66, Ziko_66, Fryberger_63, Guey18_69, Volt_66
• Track 73 : Keelan_61
• Track 74 : Nyceirae_28
• Track 75 : Vordorf_27, Meyran_26
• Track 76 : Ewald_27
• Track 77 : Dogfish_26
• Track 78 : Stark_37, Gemini_39, Maxxinista_37, Elph10_37, Moldemort_37, Tarkin_38, Gage_38, StormChicken_36, Eureka_36, FireRed_36, MollyToe_36, JeTaime_38, StellaBean_36, Buck_35, Tomaszewski_35, TBrady12_38, Rimmer_35, FoghornLeghorn_35, Kanye_38, TeardropMSU_35, GoldenSpark_38, Sassay_35, 244_38, Simpliphy_37, HanKaySha_37, HufflyPuff_35, Argent26_38, MISSy_35, Rakim_37, MadamMonkfish_36, BilboSwaggins_36, Manda_37, Dumbo_36, Becksu_36, TeamEdward_36, YassJohnny_37, SophKB_36, Petra64142_38, GooberAzure_38, Hopey_38, Balomoji_35, Pumpkin_38, Miniwave_36, PhatBacter_36, Nimrod_36, FairyPath_36, BugsBunny_34, Icee_35, MPhalcon_35, CrystalP_36, Kimchi_38, Livelaughbron_37, Asriel_35, Bask21_36, StolenFromERC_38, Easy2Say_38, Quallification_37, NonchalantPear_36, Cactus_37, Hoonter_38, Contagion_35, Mosby_35, Lilac_38, Filch_37, Barbarian_35, Phaux_35, Palpatine_36, Sotrice96_36, NelitzaMV_36, Czyszczon1_37, RiverMonster_36, Adnama_39, Terminus_36, AmericanBeauty_38, Bench_38, Murphy_37, Command613_37, Gator_34, Phrux_36, Misfit_36, Traaww1_34, Ptowny_37, Goku_36, Lilizi_38, DoctorDiddles_36, Bruin_36, Xandras_38, Wiggin_39, Willez_35, Paperbeatsrock_38, Saints25_37, Policronamos_36, Thimble_36, Nala_36, PaddyBaddy_37, ShamWow_36, Teaspoon_37, Highbury_37, NoSleep_37, xkcd_37, Greep_37, OrionPax_37, Toto_36, Murica_35, Pharsalus_37, Inca_35
• Track 79 : Emmina_37, SirDuracell_35, Bogg_36, Glexan_34, Thresher_37, BaboJay_35, Amao_36, ChotaBhai_36, BigBubba_37, Lilpickle_35, Phaja_36, Myrale_36, Pat3_35, Dusk_35, Harella_35, BadStone_35, ShereKhan_38, Stank_39, Tuco_37, Mindy_36, Youngblood_36, Flypotenuse_34, Elite2014_35, Brewer_36, IHOP_36, ChosenOne_36, Henry_37, ABCat_35, DrDrey_37, Holt_37, Ukulele_36, Marshmallow_36, Cookies_36, Porky_36
• Track 80 : Kostya_37, Daikon_35
• Track 81 : Goldilocks_37
• Track 82 : Cjw1_36
• Track 83 : Budgie_38
• Track 84 : Phreeze_37
• Track 85 : Konstantine_42
• Track 86 : Predator_39
• Track 87 : Nish23_38, Beckerton_37, Oaker_37, Damien_37, Cborch11_38, Megatron06_39
• Track 88 : BobtimousPrime_39
• Track 89 : Thumb_37
• Track 90 : Puissant_38
• Track 91 : Sbash_29

• Track 92 : Stuck_29
• Track 93 : LeMond_33, KiSi_33, Oscar_33, Scarlett_33
• Track 94 : Chris_33
• Track 95 : MarkPhew_34
• Track 96 : Doughnut_33, Mufasa_33, BoostSeason_33
• Track 97 : TM4_34
• Track 98 : DismalStressor_32, Marcoliusprime_32, Findley_32, Strobilo_32, Milly_32, DismalFunk_32
• Track 99 : ZoeJ_32
• Track 100 : Marshawn_35
• Track 101 : Colossa_31
• Track 102 : VanLee_31
• Track 103 : Poochiewood_29, Enceladus_29, UPIE_29, Tyson_29, Wamburgrxpress_29, Silverleaf_29, AvadaKedavra_29, Calm_29, Appletree2_29, Acquire49_29, CicholasNage_29, LeBron_29, OhShagHennessy_29, Zaria_29, Rose5_29, JoeDirt_29, Halena_29, Wyatt2_29, MAckerman_29, DirkDirk_29
• Track 104 : Breezona_31, Netyap_31, Underpass_31, Baoshan_30, ChengKai98_31, Gardann_31, Lewan_31, DHan_31, Wilder_31, Kahlid_31, Rumpelstiltskin_31, Winky_31, Vetrix_31, OverPar_31, Crossroads_31, Soap141_31, Miley16_31, Faith1_31, Gabriela_31, DrSeegs_31, Finemlucis_31, Molivier_31, ZhongYanYuan_30, Wigglewiggle_31, Hiraya_31, MkaliMitinis3_31, Itos_31, SoJulia_32, Loadrie_31, Hafay_31, BigCheese_31, BobsGarage_31, Lynnae_31, GuuelaD_31, Sarshaun_31, DanBing_30, LilDestine_31, Nicholasp3_31
• Track 105 : Bazzle_31, Archie_31
• Track 106 : Claus_31
• Track 107 : Rossetti_31, Zakai_31
• Track 108 : Tourach_31
• Track 109 : Samty_30, Finnry_30, Clautastrophe_30, TriFive_30, Nicholas_30, Kingsolomon_30, Moostard_30, Lumos_30, Snenia_30, MsGreen_30, Jobypre_30, Red305_30, Jubie_30, Bellis_30
• Track 110 : LiyuLake_30, Ellson_30, DuncansLeg_30, BourbonZero_29, KirDoubleO7_28
• Track 111 : Lolly9_30, MiniMac_30, MiniLon_30
• Track 112 : Krypton555_30
• Track 113 : Whirlwind_31
• Track 114 : Bromden_31
• Track 115 : Douzhi_29, Chaser_29, Sheng711_29, Quby_29, BrainDrainer_30, PYPDinur_29, Douge_29
• Track 116 : FarmResident_29
• Track 117 : ChutneyChips_30
• Track 118 : Kropertea_29, DyoEdafos_30
• Track 119 : Aegeus_32, Baudelaire_32
• Track 120 : Pine5_19

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

The start number called the most often in the published annotations is 60, it was called in 332 of the 505 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• 244_38, ABCat_35, AbbysRanger_30, Abdiel_29, Achebe_29, Adnama_39, Albee_30, Alberto7_31, Amao_36, AmericanBeauty_38, AnnaL29_34, Annyong_30, ArcherNM_33, Argent26_38, Arturo_29, Asriel_35, AvatarAhPeg_31, Avle17_30, BaboJay_35, Baby16_30, Backyardigan_30, Bactobuster_32, BadStone_35, Badger_30, Balomoji_35, BangNhom_30, Barbarian_35, Bartimeaus_30, Bask21_36, Becksu_36, BellusTerra_30, Bench_38, BigBubba_37, BilboSwaggins_36, Blackmoor_30, Bogg_36, Bombshell_30, BoostSeason_33, Brewer_36, Broseidon_30, Bruin_36, Bruiser_29, BubbleTrouble_30, Buck_35, Buckaroo_29, Budgie_38, BugsBunny_34, Bumblebee11_30, Burger_29, Cactus_37, Caelakin_30, Camperdownii_29, CentreCat_30, Cerulean_31, ChampagnePapi_31, Changeling_33, Chaph_30, ChosenOne_36, ChotaBhai_36, Chris_33, Chupacabra_31, Cici_30, Cindaradix_29, Cintron_30, Citius_30, Clarenza_30, Cocoaberry_30, Command613_37, Commander_30, Connomayer_30, Contagion_35, Cookies_36, CrystalP_36, Czyszczon1_37, Daikon_35, Datway_30, Deano_30, DeerParkTS_32, Dhanush_30, DirtyDunning_30, DismalFunk_32, DismalStressor_32, DoctorDiddles_36, DontArgue_30, Doughnut_33, DrDrey_37, Drake94_30, DroogsArmy_31, Druantia_30, Dumbo_36, Dusk_35, DustyMartin_35, Eagle_29, Eaglepride_32, Eapen_30, Easy2Say_38, Edison31_31, Elite2014_35, Elph10_37, Emmina_37, Eris_29, Eros_30, Eureka_36, Eurydice_30, FairyPath_36, Filch_37, Findley_32, FireRed_36, Florean_30, Flux_30, Flypotenuse_34, FoghornLeghorn_35, ForesterFrank_33, Funston_30, Gadost_30, Gage_38, Gator_34, Gemini_39, Glexan_34, Goku_36, GoldenSpark_38, Goldilocks_37, GooberAzure_38, Goose_31, Greep_37, HINdeR_30, HamSlice_29, HanKaySha_37, Happiness_30, Harella_35, Henry_37, Herbertwm_28, Highbury_37, Holli_30, Holt_37, Hoonter_38, Hopey_38, Houdini22_30, HufflyPuff_35, Huxley_30, ICleared_30, IHOP_36, Icee_35, Iceman_31, Inca_35, Iracema64_31, IronMan_33, Jaan_34, Jaykayelowell_30, JeTaime_38, JetBlade_30, JoongJeon_30, Junimo_29, KFPoly_30, Kampy_30, Kanye_38, Katalie136_30, KekoraPapaka_29, KiSi_33, Kimchi_38, Kingmustik0402_30, KittenMittens_30, Koan_30, Koreni_29, Kostya_37, Kratark_30, Kremtemulon_30, Kristoff_32, Kyee_30, LHTSCC_31, Landor_32, LappelDuVide_30, LeMond_33, Lemur_30, LeoAvram_30, Lilac_38, Lilizi_38, Lilpickle_35, LittleB_30, LittleGuy_30, Livelaughbron_37, LochMonster_30, Lorenzo_30, Loser_34, Lunsford_31, MISSy_35, MPhalcon_35, MadamMonkfish_36, Manda_37, Marcoliusprime_32, MarkPhew_34, Marshawn_35, Marshmallow_36, Maverick_30, Maxo_30, Maxxinista_37, Mayonnaise_30, Mazhar510_30, Medusa_30, MeeZee_30, Melvin_30, Millski_29, Milly_32, Mindy_36, Miniwave_36, Miramae_30, Misfit_36, Moldemort_37, MollyToe_36, Morpher26_30, Morrow_30, Mosby_35, Mufasa_33, Mundrea_30, Murica_35, Murphy_37, Myrale_36, Nala_36, Nebs_30, NelitzaMV_36, Nemo27_30, Nimrod_36, NoSleep_37, Noelle_30, NonchalantPear_36, NorthStar_30, Northrop_30, NotAPhaseMom_30, Nyxis_30, OKCentral2016_31, OKaNui_31, Obama12_31, Ohfah_30, OrionPax_37, Oscar_33, PaddyBaddy_37, Palestino_29, Palpatine_36, Paperbeatsrock_38, Pat3_35, PeaceMeal1_30, Peaches_30, Perplexer_30, PeterPeter_30, PetiteSangsue_30, Petra64142_38, Phacado_30, Phaded_34, Phaja_36, Pharsalus_37, PhatBacter_36, Phaux_35, Phelipe_30, Phighter1804_30, Phontbonne_30, Phrux_36, Pine5_19, Pipcraft_30, Policronamos_36, Polymorphads_30, Poompha_30, Porky_36, Prudy_34, Ptowny_37, Pumbaa_30, Pumpkin_38, Quallification_37, Rakim_37, Rebeuca_32, RedRock_34, Refuge_34, Relief_30, RhynO_32, Rimmer_35, RiverMonster_36, RockieBear_30, Rocksand_30, Romney_30, Roosevelt_30, Rosa24_29, Rowdy_35, Ruin_30, Sabertooth_30, Saints25_37, Sassay_35, Scamp_30, Scarlett_33, SenorClean_30, Severus_30, Shaka_30, ShamWow_36, Shapes_35, SheldonCooper_31, ShereKhan_38, Shygu2_30, Simpliphy_37, SirDuracell_35, Skadoosh_30, Skipitt_30, SophKB_36, Sotrice96_36, Sparxx_30,

Spino_30, Stank_39, Stark_37, Stasia_31, SteMason_30, Steamy_32, StellaBean_36, Stink_31, StolenFromERC_38, StormChicken_36, Strobilo_32, Sultana_30, TBrady12_38, TM4_34, Taquarus_30, Tarkin_38, TeamEdward_36, TeardropMSU_35, Teaspoon_37, Terminus_36, Thanksgivukkah_30, Thimble_36, Thresher_37, Timshel_31, TinaFeyge_30, Tinybot_29, TiroTheta9_30, Tomaszewski_35, Topanga_31, Toto_36, Traaww1_34, Trike_29, Tristan_32, TroyPia_30, Tuco_37, Twister_31, TygerBlood_30, Ukulele_36, Ulysses_29, WalterMcMickey_31, Wander_30, Wiggin_39, Wilbur_30, Wile_30, Willez_35, Wizard007_30, Xandras_38, Xena_30, YassJohnny_37, YoSam321_30, Youngblood_36, ZoeJ_32, xkcd_37,

Genes that have the "Most Annotated" start but do not call it:
• Acquire49_29, Appletree2_29, AvadaKedavra_29, Calm_29, CicholasNage_29, Cjw1_36, DirkDirk_29, Enceladus_29, Halena_29, JoeDirt_29, LeBron_29, MAckerman_29, OhShagHennessy_29, Poochiewood_29, Rose5_29, Silverleaf_29, Tyson_29, UPIE_29, Wamburgrxpress_29, Wyatt2_29, Zaria_29,

Genes that do not have the "Most Annotated" start:
• Aegeus_32, Affeca_42, Angelicage_42, Archie_31, Ashertheman_45, Baddon_44, Baoshan_30, Barsten_45, BatStarr_24, Baudelaire_32, Baumdotcom_43, Bazzle_31, Beckerton_37, Bellis_30, Bialota_24, BigCheese_31, Bizzy_45, BobBob_42, BobsGarage_31, BobtimousPrime_39, Bosnia_24, BourbonZero_29, BrainDrainer_30, Brandonk123_46, Brawn1_41, Breezona_31, Bromden_31, Cborch11_38, ChadMasterC_45, Charming_45, Chaser_29, ChengKai98_31, ChutneyChips_30, Claus_31, Clautastrophe_30, Colossa_31, Crossroads_31, DHan_31, Damien_37, DanBing_30, Derg_40, Dogfish_26, Douge_29, Douzhi_29, DrSeegs_31, DuncansLeg_30, DyoEdafos_30, Ellson_30, Eviarto_24, Ewald_27, Faith1_31, Farewell_30, FarmResident_29, Finemlucis_31, Finnry_30, Fitzgerald_43, Flatwoods_45, Fosterous_42, Frizzle_22, Fryberger_63, FuegoCuervo_47, Gabriela_31, Gaea_44, Galadriel_44, Gardann_31, Geodirt_43, Ghobes_23, Guey18_69, Gustavo_44, GuuelaD_31, Hafay_31, Herod_24, Hiraya_31, Hugley_24, IdentityCrisis_29, Itos_31, JKSyngboy_42, Jabberwocky_43, Jobypre_30, Jubie_30, JustASigh_29, Kahlid_31, Kamashten_42, Keelan_61, Kewpiedoll_44, Kingsolomon_30, KirDoubleO7_28, Konstantine_42, Kroos_45, Kropertea_29, Krypton555_30, Kwobi_46, Lennon_44, Lewan_31, LilDestine_31, LilHam_42, Lilbeanie_43, LiyuLake_30, Loadrie_31, Lolly9_30, Love_48, Lumos_30, Lynnae_31, Madavieve_24, Madeline_24, McCrothy_44, McKinley_46, Megatron06_39, Meyran_26, Miley16_31, MiniLon_30, MiniMac_30, MkaliMitinis3_31, Molivier_31, MoontowerMania_44, Moostard_30, MsGreen_30, Netyap_31, Nicholas_30, Nicholasp3_31, Nish23_38, Nordenberg_39, Nyceirae_28, Nymphadora_24, Oaker_37, Ohgeesy_24, OverPar_31, PYPDinur_29, Paries_47, Phreeze_37, Polly_23, Predator_39, Puissant_38, Quby_29, Red305_30, Ribeye_45, Rofo_45, Ronaldo_66, Rossetti_31, Rumpelstiltskin_31, Samty_30, Sanjuju_43, Sapo_22, Saronaya_44, Sarshaun_31, Sbash_29, SchottB_43, Sheng711_29, Shivanishola_44, Sitar_44, Snenia_30, SoJulia_32, Soap141_31, Sparky_30, Stichling_42, StorminNorm_44, Stuck_29, Stultus_43, SushiChef_26, Tangent_45, Tangerine_44, ThankyouJordi_23, Thing3_42, Thumb_37, TimTam_24, Tourach_31, TriFive_30, Tycho_44, Underpass_31, VanLee_31, Vetrix_31, Vivi2_47, Volt_66, Vordorf_27, WelcomeAyanna_23, Whirlwind_31, Wigglewiggle_31, Wilder_31, Winky_31, YorkOnyx_45, Zakai_31, ZhongYanYuan_30, Ziko_66, Zirinka_24,

Summary by start number:

Start 41:
• Found in 1 of 560 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 505
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JustASigh_29 (AH),

Start 45:
• Found in 145 of 560 (25.9%) of genes in pham
• Manual Annotations of this start: 1 of 505
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Cjw1_36 (E),

Start 46:
• Found in 12 of 560 (2.1%) of genes in pham
• Manual Annotations of this start: 11 of 505
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beckerton_37 (H1), BobtimousPrime_39 (H1), Cborch11_38 (H1), Damien_37 (H1), Konstantine_42 (H1), Megatron06_39 (H1), Nish23_38 (H1), Oaker_37 (H1), Phreeze_37 (H1), Predator_39 (H1), Puissant_38 (H1), Thumb_37 (H1),

Start 52:
• Found in 46 of 560 (8.2%) of genes in pham
• Manual Annotations of this start: 32 of 505
• Called 95.7% of time when present
• Phage (with cluster) where this start called: Archie_31 (L2), Baoshan_30 (L2), Bazzle_31 (L2), BigCheese_31 (L2), BobsGarage_31 (L2), Breezona_31 (L2), ChengKai98_31 (L2), Claus_31 (L2), Crossroads_31 (L2), DHan_31 (L2), DanBing_30 (L2), DrSeegs_31 (L2), Faith1_31 (L2), Finemlucis_31 (L2), Gabriela_31 (L2), Gardann_31 (L2), GuuelaD_31 (L2), Hafay_31 (L2), Hiraya_31 (L2), Itos_31 (L2), Kahlid_31 (L2), Lewan_31 (L2), LilDestine_31 (L2), Loadrie_31 (L2), Lynnae_31 (L2), Miley16_31 (L2), MkaliMitinis3_31 (L2), Molivier_31 (L2), Netyap_31 (L2), Nicholasp3_31 (L2), OverPar_31 (L2), Rossetti_31 (L2), Rumpelstiltskin_31 (L2), Sarshaun_31 (L2), SoJulia_32 (L2), Soap141_31 (L2), Tourach_31 (L2), Underpass_31 (L2), Vetrix_31 (L2), Wigglewiggle_31 (L2), Wilder_31 (L2), Winky_31 (L2), Zakai_31 (L2), ZhongYanYuan_30 (L2),

Start 53:
• Found in 21 of 560 (3.8%) of genes in pham
• Manual Annotations of this start: 19 of 505
• Called 95.2% of time when present
• Phage (with cluster) where this start called: Acquire49_29 (L1), Appletree2_29 (L1), AvadaKedavra_29 (L1), Calm_29 (L1), CicholasNage_29 (L1), DirkDirk_29 (L1), Enceladus_29 (L1), Halena_29 (L1), JoeDirt_29 (L1), LeBron_29 (L1), MAckerman_29 (L1), OhShagHennessy_29 (L1), Poochiewood_29 (L1), Rose5_29 (L1), Silverleaf_29 (L1), Tyson_29 (L1), UPIE_29 (L1), Wamburgrxpress_29 (L1), Wyatt2_29 (L1), Zaria_29 (L1),

Start 54:
• Found in 26 of 560 (4.6%) of genes in pham
• Manual Annotations of this start: 21 of 505
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Aegeus_32 (L5), Baudelaire_32 (L5), Bellis_30 (L3), BourbonZero_29 (L3), Clautastrophe_30 (L3), DuncansLeg_30 (L3), Ellson_30 (L3), Finnry_30 (L3), Jobypre_30 (L3), Jubie_30 (L3), Kingsolomon_30 (L3), KirDoubleO7_28 (L3), Krypton555_30 (L3), LiyuLake_30 (L3), Lolly9_30 (L3), Lumos_30 (L3), MiniLon_30 (L3), MiniMac_30 (L3), Moostard_30 (L3), MsGreen_30 (L3), Nicholas_30 (L3), Red305_30 (L3), Samty_30 (L3), Snenia_30 (L3), TriFive_30 (L3), Whirlwind_31 (L3),

Start 55:
• Found in 12 of 560 (2.1%) of genes in pham
• Manual Annotations of this start: 6 of 505
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrainDrainer_30 (L4), Bromden_31 (L4), Chaser_29 (L4), ChutneyChips_30 (L4), Douge_29 (L4), Douzhi_29 (L4), DyoEdafos_30 (L4), FarmResident_29 (L4), Kropertea_29 (L4), PYPDinur_29 (L4), Quby_29 (L4), Sheng711_29 (L4),

Start 58:
• Found in 8 of 560 (1.4%) of genes in pham
• Manual Annotations of this start: 6 of 505
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Farewell_30 (AF), IdentityCrisis_29 (AJ), Sapo_22 (DA), Sbash_29 (I2), Sparky_30 (AF), Stuck_29 (I2),

Start 59:
• Found in 1 of 560 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 505
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_31 (KA),

Start 60:
• Found in 376 of 560 (67.1%) of genes in pham
• Manual Annotations of this start: 332 of 505
• Called 94.4% of time when present
• Phage (with cluster) where this start called: 244_38 (E), ABCat_35 (E), AbbysRanger_30 (A4), Abdiel_29 (A4), Achebe_29 (A4), Adnama_39 (E), Albee_30 (A4), Alberto7_31 (A4), Amao_36 (E), AmericanBeauty_38 (E), AnnaL29_34 (A2), Annyong_30 (A4), ArcherNM_33 (A2), Argent26_38 (E), Arturo_29 (A4), Asriel_35 (E), AvatarAhPeg_31 (A4), Avle17_30 (A4), BaboJay_35 (E), Baby16_30 (A4), Backyardigan_30 (A4), Bactobuster_32 (A2), BadStone_35 (E), Badger_30 (A4), Balomoji_35 (E), BangNhom_30 (A4), Barbarian_35 (E), Bartimeaus_30 (A4), Bask21_36 (E), Becksu_36 (E), BellusTerra_30 (A4), Bench_38 (E), BigBubba_37 (E), BilboSwaggins_36 (E), Blackmoor_30 (A4), Bogg_36 (E), Bombshell_30 (A4), BoostSeason_33 (K2), Brewer_36 (E), Broseidon_30 (A4), Bruin_36 (E), Bruiser_29 (A4), BubbleTrouble_30 (A4), Buck_35 (E), Buckaroo_29 (A4), Budgie_38 (E), BugsBunny_34 (E), Bumblebee11_30 (A4), Burger_29 (A4), Cactus_37 (E), Caelakin_30 (A4), Camperdownii_29 (A4), CentreCat_30 (A4), Cerulean_31 (A4), ChampagnePapi_31 (A4), Changeling_33 (A2), Chaph_30 (A4), ChosenOne_36 (E), ChotaBhai_36 (E), Chris_33 (K1), Chupacabra_31 (A10), Cici_30 (A4), Cindaradix_29 (A4), Cintron_30 (A4), Citius_30 (A4), Clarenza_30 (A4), Cocoaberry_30 (A4), Command613_37 (E), Commander_30 (A4), Connomayer_30 (A4), Contagion_35 (E), Cookies_36 (E), CrystalP_36 (E), Czyszczon1_37 (E), Daikon_35 (E), Datway_30 (A4), Deano_30 (A4), DeerParkTS_32 (A2), Dhanush_30

(A4), DirtyDunning_30 (A4), DismalFunk_32 (K2), DismalStressor_32 (K2), DoctorDiddles_36 (E), DontArgue_30 (A10), Doughnut_33 (K2), DrDrey_37 (E), Drake94_30 (A10), DroogsArmy_31 (A7), Druantia_30 (A4), Dumbo_36 (E), Dusk_35 (E), DustyMartin_35 (A10), Eagle_29 (A4), Eaglepride_32 (A10), Eapen_30 (A4), Easy2Say_38 (E), Edison31_31 (A10), Elite2014_35 (E), Elph10_37 (E), Emmina_37 (E), Eris_29 (A4), Eros_30 (A4), Eureka_36 (E), Eurydice_30 (A4), FairyPath_36 (E), Filch_37 (E), Findley_32 (K2), FireRed_36 (E), Florean_30 (A4), Flux_30 (A4), Flypotenuse_34 (E), FoghornLeghorn_35 (E), ForesterFrank_33 (A2), Funston_30 (A4), Gadost_30 (A4), Gage_38 (E), Gator_34 (E), Gemini_39 (E), Glexan_34 (E), Goku_36 (E), GoldenSpark_38 (E), Goldilocks_37 (E), GooberAzure_38 (E), Goose_31 (A10), Greep_37 (E), HINdeR_30 (A7), HamSlice_29 (A4), HanKaySha_37 (E), Happiness_30 (A4), Harella_35 (E), Henry_37 (E), Herbertwm_28 (A2), Highbury_37 (E), Holli_30 (A4), Holt_37 (E), Hoonter_38 (E), Hopey_38 (E), Houdini22_30 (A4), HufflyPuff_35 (E), Huxley_30 (A4), ICleared_30 (A4), IHOP_36 (E), Icee_35 (E), Iceman_31 (A4), Inca_35 (E), Iracema64_31 (A4), IronMan_33 (A2), Jaan_34 (A2), Jaykayelowell_30 (A4), JeTaime_38 (E), JetBlade_30 (A4), JoongJeon_30 (A4), Junimo_29 (A4), KFPoly_30 (A4), Kampy_30 (A4), Kanye_38 (E), Katalie136_30 (A4), KekoraPapaka_29 (A4), KiSi_33 (K1), Kimchi_38 (E), Kingmustik0402_30 (A4), KittenMittens_30 (A10), Koan_30 (A4), Koreni_29 (A4), Kostya_37 (E), Kratark_30 (A4), Kremtemulon_30 (A4), Kristoff_32 (A10), Kyee_30 (A4), LHTSCC_31 (A4), Landor_32 (A2), LappelDuVide_30 (A4), LeMond_33 (K1), Lemur_30 (A4), LeoAvram_30 (A4), Lilac_38 (E), Lilizi_38 (E), Lilpickle_35 (E), LittleB_30 (A4), LittleGuy_30 (A4), Livelaughbron_37 (E), LochMonster_30 (A4), Lorenzo_30 (A4), Loser_34 (A2), Lunsford_31 (A4), MISSy_35 (E), MPhalcon_35 (E), MadamMonkfish_36 (E), Manda_37 (E), Marcoliusprime_32 (K2), MarkPhew_34 (K1), Marshawn_35 (K6), Marshmallow_36 (E), Maverick_30 (A4), Maxo_30 (A4), Maxxinista_37 (E), Mayonnaise_30 (A4), Mazhar510_30 (A4), Medusa_30 (A4), MeeZee_30 (A4), Melvin_30 (A4), Millski_29 (A4), Milly_32 (K2), Mindy_36 (E), Miniwave_36 (E), Miramae_30 (A4), Misfit_36 (E), Moldemort_37 (E), MollyToe_36 (E), Morpher26_30 (A4), Morrow_30 (A4), Mosby_35 (E), Mufasa_33 (K2), Mundrea_30 (A4), Murica_35 (E), Murphy_37 (E), Myrale_36 (E), Nala_36 (E), Nebs_30 (A4), NelitzaMV_36 (E), Nemo27_30 (A4), Nimrod_36 (E), NoSleep_37 (E), Noelle_30 (A4), NonchalantPear_36 (E), NorthStar_30 (A4), Northrop_30 (A4), NotAPhaseMom_30 (A4), Nyxis_30 (A4), OKCentral2016_31 (A10), OKaNui_31 (A4), Obama12_31 (A4), Ohfah_30 (A4), OrionPax_37 (E), Oscar_33 (K1), PaddyBaddy_37 (E), Palestino_29 (A4), Palpatine_36 (E), Paperbeatsrock_38 (E), Pat3_35 (E), PeaceMeal1_30 (A10), Peaches_30 (A4), Perplexer_30 (A4), PeterPeter_30 (A4), PetiteSangsue_30 (A4), Petra64142_38 (E), Phacado_30 (A4), Phaded_34 (A2), Phaja_36 (E), Pharsalus_37 (E), PhatBacter_36 (E), Phaux_35 (E), Phelipe_30 (A4), Phighter1804_30 (A4), Phontbonne_30 (A4), Phrux_36 (E), Pine5_19 (singleton), Pipcraft_30 (A4), Policronamos_36 (E), Polymorphads_30 (A4), Poompha_30 (A10), Porky_36 (E), Prudy_34 (A2), Ptowny_37 (E), Pumbaa_30 (A4), Pumpkin_38 (E), Quallification_37 (E), Rakim_37 (E), Rebeuca_32 (A10), RedRock_34 (A2), Refuge_34 (A12), Relief_30 (A4), RhynO_32 (A10), Rimmer_35 (E), RiverMonster_36 (E), RockieBear_30 (A4), Rocksand_30 (A4), Romney_30 (A4), Roosevelt_30 (A4), Rosa24_29 (A4), Rowdy_35 (A10), Ruin_30 (A4), Sabertooth_30 (A4), Saints25_37 (E), Sassay_35 (E), Scamp_30 (A4), Scarlett_33 (K1), SenorClean_30 (A4), Severus_30 (A10), Shaka_30 (A4), ShamWow_36 (E), Shapes_35 (A10), SheldonCooper_31 (A4), ShereKhan_38 (E), Shygu2_30 (A4), Simpliphy_37 (E), SirDuracell_35 (E), Skadoosh_30 (A4), Skipitt_30 (A4), SophKB_36 (E), Sotrice96_36 (E), Sparxx_30 (A4), Spino_30 (A4), Stank_39 (E), Stark_37 (E), Stasia_31 (A4), SteMason_30 (A4), Steamy_32 (A12), StellaBean_36 (E), Stink_31 (A4), StolenFromERC_38 (E), StormChicken_36 (E), Strobilo_32 (K2),

Sultana_30 (A4), TBrady12_38 (E), TM4_34 (K2), Taquarus_30 (A4), Tarkin_38 (E), TeamEdward_36 (E), TeardropMSU_35 (E), Teaspoon_37 (E), Terminus_36 (E), Thanksgivukkah_30 (A4), Thimble_36 (E), Thresher_37 (E), Timshel_31 (A7), TinaFeyge_30 (A4), Tinybot_29 (A4), TiroTheta9_30 (A4), Tomaszewski_35 (E), Topanga_31 (A10), Toto_36 (E), Traaww1_34 (E), Trike_29 (A10), Tristan_32 (A2), TroyPia_30 (A4), Tuco_37 (E), Twister_31 (A10), TygerBlood_30 (A4), Ukulele_36 (E), Ulysses_29 (A4), WalterMcMickey_31 (A10), Wander_30 (A4), Wiggin_39 (E), Wilbur_30 (A4), Wile_30 (A4), Willez_35 (E), Wizard007_30 (A4), Xandras_38 (E), Xena_30 (A4), YassJohnny_37 (E), YoSam321_30 (A4), Youngblood_36 (E), ZoeJ_32 (K2), xkcd_37 (E),

Start 61:
• Found in 58 of 560 (10.4%) of genes in pham
• Manual Annotations of this start: 48 of 505
• Called 87.9% of time when present
• Phage (with cluster) where this start called: Affeca_42 (DE1), Angelicage_42 (DE1), Ashertheman_45 (DE1), Baddon_44 (DE1), Barsten_45 (DE1), Baumdotcom_43 (DE1), Bizzy_45 (DE1), BobBob_42 (DE1), Brandonk123_46 (DE1), Brawn1_41 (DE1), ChadMasterC_45 (DE1), Charming_45 (DE1), Derg_40 (DE1), Fitzgerald_43 (DE1), Flatwoods_45 (DE1), Fosterous_42 (DE1), FuegoCuervo_47 (DE1), Gaea_44 (DE1), Galadriel_44 (DE1), Geodirt_43 (DE1), Gustavo_44 (DE1), JKSyngboy_42 (DE1), Jabberwocky_43 (DE1), Kamashten_42 (DE1), Kewpiedoll_44 (DE1), Kroos_45 (DE1), Kwobi_46 (DE1), Lennon_44 (DE1), LilHam_42 (DE1), Love_48 (DE1), McCrothy_44 (DE1), McKinley_46 (DE1), MoontowerMania_44 (DE1), Nordenberg_39 (DE1), Paries_47 (DE1), Ribeye_45 (DE1), Rofo_45 (DE1), Sanjuju_43 (DE1), Saronaya_44 (DE1), SchottB_43 (DE1), Shivanishola_44 (DE1), Sitar_44 (DE1), Stichling_42 (DE1), StorminNorm_44 (DE1), Stultus_43 (DE1), Tangent_45 (DE1), Tangerine_44 (DE1), Thing3_42 (DE1), Tycho_44 (DE1), Vivi2_47 (DE1), YorkOnyx_45 (DE1),

Start 62:
• Found in 27 of 560 (4.8%) of genes in pham
• Manual Annotations of this start: 20 of 505
• Called 88.9% of time when present
• Phage (with cluster) where this start called: BatStarr_24 (CZ1), Bialota_24 (CZ1), Bosnia_24 (CZ1), Dogfish_26 (DT), Eviarto_24 (CZ1), Ewald_27 (DT), Frizzle_22 (DA), Ghobes_23 (DA), Herod_24 (CZ1), Hugley_24 (CZ1), Madavieve_24 (CZ1), Madeline_24 (CZ1), Meyran_26 (DT), Nyceirae_28 (DT), Nymphadora_24 (CZ1), Ohgeesy_24 (CZ), Polly_23 (CZ1), SushiChef_26 (CZ), ThankyouJordi_23 (CZ1), TimTam_24 (CZ1), VanLee_31 (KA), Vordorf_27 (DT), WelcomeAyanna_23 (CZ1), Zirinka_24 (CZ1),

Start 63:
• Found in 74 of 560 (13.2%) of genes in pham
• Manual Annotations of this start: 6 of 505
• Called 8.1% of time when present
• Phage (with cluster) where this start called: Fryberger_63 (DP), Guey18_69 (DP), Keelan_61 (DP), Ronaldo_66 (DP), Volt_66 (DP), Ziko_66 (DP),

Start 66:
• Found in 3 of 560 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 505
• Called 33.3% of time when present

• Phage (with cluster) where this start called: Lilbeanie_43 (DE5),

Summary by clusters:

There are 28 clusters represented in this pham: singleton, CZ1, DA, K2, K1, K6, DT, DP, A10, A12, I2, A2, A4, A7, E, AF, AH, AJ, CZ, L4, L5, L2, L3, L1, KA, DE1, H1, DE5,

Info for manual annotations of cluster A10:
•Start number 60 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A12:
•Start number 60 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A2:
•Start number 60 was manually annotated 15 times for cluster A2.

Info for manual annotations of cluster A4:
•Start number 60 was manually annotated 144 times for cluster A4.

Info for manual annotations of cluster A7:
•Start number 60 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster AF:
•Start number 58 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AH:
•Start number 41 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AJ:
•Start number 58 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster CZ:
•Start number 62 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 62 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster DA:
•Start number 58 was manually annotated 1 time for cluster DA.
•Start number 62 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster DE1:
•Start number 61 was manually annotated 48 times for cluster DE1.

Info for manual annotations of cluster DE5:
•Start number 66 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DP:
•Start number 63 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster DT:
•Start number 62 was manually annotated 4 times for cluster DT.

Info for manual annotations of cluster E:
•Start number 45 was manually annotated 1 time for cluster E.
•Start number 60 was manually annotated 133 times for cluster E.

Info for manual annotations of cluster H1:
•Start number 46 was manually annotated 11 times for cluster H1.

Info for manual annotations of cluster I2:
•Start number 58 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster K1:
•Start number 60 was manually annotated 6 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 60 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K6:
•Start number 60 was manually annotated 1 time for cluster K6.

Info for manual annotations of cluster KA:
•Start number 59 was manually annotated 1 time for cluster KA.
•Start number 62 was manually annotated 1 time for cluster KA.

Info for manual annotations of cluster L1:
•Start number 53 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 52 was manually annotated 32 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 54 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 55 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 54 was manually annotated 2 times for cluster L5.

Gene Information:

Gene: 244_38 Start: 32992, Stop: 33408, Start Num: 60
Candidate Starts for 244_38:
(Start: 45 @32947 has 1 MA's), (Start: 60 @32992 has 332 MA's), (83, 33046), (89, 33061), (95, 33079), (102, 33109), (133, 33223), (146, 33250), (149, 33265),

Gene: ABCat_35 Start: 32704, Stop: 33120, Start Num: 60
Candidate Starts for ABCat_35:
(Start: 45 @32659 has 1 MA's), (Start: 60 @32704 has 332 MA's), (83, 32758), (89, 32773), (102, 32821), (133, 32935), (146, 32962), (149, 32977),

Gene: AbbysRanger_30 Start: 22547, Stop: 22978, Start Num: 60
Candidate Starts for AbbysRanger_30:
(Start: 60 @22547 has 332 MA's), (75, 22586), (85, 22607), (95, 22637), (118, 22730), (148, 22820), (155, 22874), (173, 22952),

Gene: Abdiel_29 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Abdiel_29:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698),

Gene: Achebe_29 Start: 22530, Stop: 22961, Start Num: 60
Candidate Starts for Achebe_29:
(Start: 60 @22530 has 332 MA's), (75, 22569), (85, 22590), (95, 22620), (118, 22713), (148, 22803), (155, 22857), (173, 22935),

Gene: Acquire49_29 Start: 27280, Stop: 27699, Start Num: 53
Candidate Starts for Acquire49_29:
(Start: 53 @27280 has 19 MA's), (Start: 60 @27295 has 332 MA's), (82, 27349), (89, 27364), (104, 27421), (120, 27469), (121, 27475), (129, 27496), (149, 27550), (170, 27655), (175, 27682),

Gene: Adnama_39 Start: 33219, Stop: 33635, Start Num: 60
Candidate Starts for Adnama_39:
(Start: 45 @33174 has 1 MA's), (Start: 60 @33219 has 332 MA's), (83, 33273), (89, 33288), (95, 33306), (102, 33336), (133, 33450), (146, 33477), (149, 33492),

Gene: Aegeus_32 Start: 27373, Stop: 27798, Start Num: 54
Candidate Starts for Aegeus_32:
(Start: 54 @27373 has 21 MA's), (Start: 58 @27385 has 6 MA's), (73, 27427), (77, 27436), (81, 27445), (84, 27448), (85, 27451), (96, 27484), (124, 27586), (129, 27595), (133, 27607), (149, 27649), (150, 27652), (154, 27685), (165, 27724), (170, 27754), (172, 27769),

Gene: Affeca_42 Start: 39008, Stop: 39457, Start Num: 61
Candidate Starts for Affeca_42:
(30, 38912), (Start: 61 @39008 has 48 MA's), (75, 39050), (82, 39065), (87, 39077), (101, 39128), (128, 39230), (160, 39353), (169, 39389), (179, 39440),

Gene: Albee_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Albee_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Alberto7_31 Start: 22820, Stop: 23248, Start Num: 60
Candidate Starts for Alberto7_31:
(Start: 60 @22820 has 332 MA's), (85, 22880), (92, 22901), (102, 22940), (118, 23003), (152, 23138),

Gene: Amao_36 Start: 31916, Stop: 32332, Start Num: 60
Candidate Starts for Amao_36:
(Start: 45 @31871 has 1 MA's), (Start: 60 @31916 has 332 MA's), (83, 31970), (89, 31985), (102, 32033), (133, 32147), (146, 32174), (149, 32189),

Gene: AmericanBeauty_38 Start: 32699, Stop: 33115, Start Num: 60
Candidate Starts for AmericanBeauty_38:
(Start: 45 @32654 has 1 MA's), (Start: 60 @32699 has 332 MA's), (83, 32753), (89, 32768), (95, 32786), (102, 32816), (133, 32930), (146, 32957), (149, 32972),

Gene: Angelicage_42 Start: 39426, Stop: 39875, Start Num: 61
Candidate Starts for Angelicage_42:
(30, 39330), (Start: 61 @39426 has 48 MA's), (75, 39468), (82, 39483), (87, 39495), (101, 39546), (128, 39648), (160, 39771), (169, 39807), (179, 39858),

Gene: AnnaL29_34 Start: 24675, Stop: 25103, Start Num: 60
Candidate Starts for AnnaL29_34:
(Start: 60 @24675 has 332 MA's), (88, 24744), (113, 24849), (154, 24999), (163, 25020),

Gene: Annyong_30 Start: 22519, Stop: 22947, Start Num: 60
Candidate Starts for Annyong_30:
(Start: 60 @22519 has 332 MA's), (85, 22579), (92, 22600), (102, 22639), (118, 22702), (152, 22837),

Gene: Appletree2_29 Start: 27223, Stop: 27642, Start Num: 53
Candidate Starts for Appletree2_29:
(Start: 53 @27223 has 19 MA's), (Start: 60 @27238 has 332 MA's), (82, 27292), (89, 27307), (104, 27364), (120, 27412), (121, 27418), (129, 27439), (149, 27493), (170, 27598), (175, 27625),

Gene: ArcherNM_33 Start: 24619, Stop: 25053, Start Num: 60
Candidate Starts for ArcherNM_33:
(Start: 60 @24619 has 332 MA's), (84, 24679), (85, 24682), (113, 24796), (136, 24859), (162, 24967),

Gene: Archie_31 Start: 28498, Stop: 28920, Start Num: 52
Candidate Starts for Archie_31:
(Start: 52 @28498 has 32 MA's), (Start: 63 @28525 has 6 MA's), (75, 28555), (82, 28570), (89, 28585), (104, 28642), (121, 28696), (149, 28771), (150, 28774), (161, 28831), (170, 28876), (175, 28903),

Gene: Argent26_38 Start: 32702, Stop: 33118, Start Num: 60
Candidate Starts for Argent26_38:
(Start: 45 @32657 has 1 MA's), (Start: 60 @32702 has 332 MA's), (83, 32756), (89, 32771), (95, 32789), (102, 32819), (133, 32933), (146, 32960), (149, 32975),

Gene: Arturo_29 Start: 22627, Stop: 23055, Start Num: 60
Candidate Starts for Arturo_29:
(31, 22534), (Start: 60 @22627 has 332 MA's), (75, 22666), (85, 22687), (92, 22708), (101, 22744), (118, 22810), (150, 22918), (152, 22945),

Gene: Ashertheman_45 Start: 39429, Stop: 39875, Start Num: 61
Candidate Starts for Ashertheman_45:
(12, 39222), (30, 39327), (36, 39342), (Start: 61 @39429 has 48 MA's), (75, 39471), (82, 39486), (87, 39498), (128, 39651), (169, 39810), (179, 39858),

Gene: Asriel_35 Start: 31573, Stop: 31989, Start Num: 60
Candidate Starts for Asriel_35:
(Start: 45 @31528 has 1 MA's), (Start: 60 @31573 has 332 MA's), (83, 31627), (89, 31642), (95, 31660), (102, 31690), (133, 31804), (146, 31831), (149, 31846),

Gene: AvadaKedavra_29 Start: 27290, Stop: 27709, Start Num: 53
Candidate Starts for AvadaKedavra_29:
(Start: 53 @27290 has 19 MA's), (Start: 60 @27305 has 332 MA's), (82, 27359), (89, 27374), (104, 27431), (120, 27479), (121, 27485), (129, 27506), (149, 27560), (170, 27665), (175, 27692),

Gene: AvatarAhPeg_31 Start: 22800, Stop: 23225, Start Num: 60

Candidate Starts for AvatarAhPeg_31:
(33, 22707), (36, 22716), (Start: 60 @22800 has 332 MA's), (70, 22824), (78, 22845), (91, 22878), (101, 22917), (129, 23010), (136, 23034), (143, 23052), (159, 23136),

Gene: Avle17_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Avle17_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: BaboJay_35 Start: 32262, Stop: 32678, Start Num: 60
Candidate Starts for BaboJay_35:
(Start: 45 @32217 has 1 MA's), (Start: 60 @32262 has 332 MA's), (83, 32316), (89, 32331), (102, 32379), (133, 32493), (146, 32520), (149, 32535),

Gene: Baby16_30 Start: 22527, Stop: 22955, Start Num: 60
Candidate Starts for Baby16_30:
(Start: 60 @22527 has 332 MA's), (85, 22587), (92, 22608), (102, 22647), (118, 22710), (152, 22845),

Gene: Backyardigan_30 Start: 22542, Stop: 22973, Start Num: 60
Candidate Starts for Backyardigan_30:
(Start: 60 @22542 has 332 MA's), (75, 22581), (85, 22602), (95, 22632), (118, 22725), (148, 22815), (155, 22869), (173, 22947),

Gene: Bactobuster_32 Start: 24432, Stop: 24866, Start Num: 60
Candidate Starts for Bactobuster_32:
(Start: 60 @24432 has 332 MA's), (Start: 61 @24435 has 48 MA's), (85, 24495), (99, 24543), (116, 24615), (136, 24672), (173, 24840), (176, 24855),

Gene: BadStone_35 Start: 32704, Stop: 33120, Start Num: 60
Candidate Starts for BadStone_35:
(Start: 45 @32659 has 1 MA's), (Start: 60 @32704 has 332 MA's), (83, 32758), (89, 32773), (102, 32821), (133, 32935), (146, 32962), (149, 32977),

Gene: Baddon_44 Start: 39967, Stop: 40413, Start Num: 61
Candidate Starts for Baddon_44:
(12, 39760), (30, 39865), (36, 39880), (Start: 61 @39967 has 48 MA's), (75, 40009), (82, 40024), (87, 40036), (128, 40189), (169, 40348), (179, 40396),

Gene: Badger_30 Start: 22531, Stop: 22962, Start Num: 60
Candidate Starts for Badger_30:
(Start: 60 @22531 has 332 MA's), (75, 22570), (85, 22591), (95, 22621), (118, 22714), (148, 22804), (155, 22858), (173, 22936),

Gene: Balomoji_35 Start: 32438, Stop: 32854, Start Num: 60
Candidate Starts for Balomoji_35:
(Start: 45 @32393 has 1 MA's), (Start: 60 @32438 has 332 MA's), (83, 32492), (89, 32507), (95, 32525), (102, 32555), (133, 32669), (146, 32696), (149, 32711),

Gene: BangNhom_30 Start: 22832, Stop: 23260, Start Num: 60
Candidate Starts for BangNhom_30:
(Start: 60 @22832 has 332 MA's), (75, 22871), (85, 22892), (92, 22913), (102, 22952), (118, 23015), (152, 23150), (154, 23156),

Gene: Baoshan_30 Start: 27830, Stop: 28252, Start Num: 52

Candidate Starts for Baoshan_30:
(Start: 52 @27830 has 32 MA's), (Start: 63 @27857 has 6 MA's), (82, 27902), (89, 27917), (91, 27923), (104, 27974), (121, 28028), (149, 28103), (150, 28106), (161, 28163), (170, 28208), (175, 28235),

Gene: Barbarian_35 Start: 31573, Stop: 31989, Start Num: 60
Candidate Starts for Barbarian_35:
(Start: 45 @31528 has 1 MA's), (Start: 60 @31573 has 332 MA's), (83, 31627), (89, 31642), (95, 31660), (102, 31690), (133, 31804), (146, 31831), (149, 31846),

Gene: Barsten_45 Start: 39581, Stop: 40030, Start Num: 61
Candidate Starts for Barsten_45:
(30, 39482), (Start: 61 @39581 has 48 MA's), (75, 39623), (82, 39638), (87, 39650), (101, 39701), (128, 39803), (160, 39926), (169, 39962), (179, 40013),

Gene: Bartimeaus_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Bartimeaus_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Bask21_36 Start: 31890, Stop: 32306, Start Num: 60
Candidate Starts for Bask21_36:
(Start: 45 @31845 has 1 MA's), (Start: 60 @31890 has 332 MA's), (83, 31944), (89, 31959), (95, 31977), (102, 32007), (133, 32121), (146, 32148), (149, 32163),

Gene: BatStarr_24 Start: 21899, Stop: 22312, Start Num: 62
Candidate Starts for BatStarr_24:
(2, 21629), (15, 21755), (42, 21878), (Start: 62 @21899 has 20 MA's), (90, 21974), (93, 21983), (104, 22028), (115, 22091), (157, 22238),

Gene: Baudelaire_32 Start: 27373, Stop: 27798, Start Num: 54
Candidate Starts for Baudelaire_32:
(Start: 54 @27373 has 21 MA's), (Start: 58 @27385 has 6 MA's), (73, 27427), (77, 27436), (81, 27445), (84, 27448), (85, 27451), (96, 27484), (124, 27586), (129, 27595), (133, 27607), (149, 27649), (150, 27652), (154, 27685), (165, 27724), (170, 27754), (172, 27769),

Gene: Baumdotcom_43 Start: 38818, Stop: 39264, Start Num: 61
Candidate Starts for Baumdotcom_43:
(7, 38560), (12, 38611), (30, 38716), (36, 38731), (Start: 61 @38818 has 48 MA's), (75, 38860), (82, 38875), (87, 38887), (128, 39040), (169, 39199), (179, 39247),

Gene: Bazzle_31 Start: 28247, Stop: 28669, Start Num: 52
Candidate Starts for Bazzle_31:
(Start: 52 @28247 has 32 MA's), (Start: 63 @28274 has 6 MA's), (75, 28304), (82, 28319), (89, 28334), (104, 28391), (121, 28445), (149, 28520), (150, 28523), (161, 28580), (170, 28625), (175, 28652),

Gene: Beckerton_37 Start: 33873, Stop: 34388, Start Num: 46
Candidate Starts for Beckerton_37:
(Start: 46 @33873 has 11 MA's), (68, 33945), (69, 33948), (72, 33960), (108, 34089), (123, 34146), (150, 34233), (165, 34305), (168, 34323), (170, 34335),

Gene: Becksu_36 Start: 32895, Stop: 33311, Start Num: 60
Candidate Starts for Becksu_36:
(Start: 45 @32850 has 1 MA's), (Start: 60 @32895 has 332 MA's), (83, 32949), (89, 32964), (95, 32982), (102, 33012), (133, 33126), (146, 33153), (149, 33168),

Gene: Bellis_30 Start: 28377, Stop: 28796, Start Num: 54
Candidate Starts for Bellis_30:
(Start: 54 @28377 has 21 MA's), (Start: 63 @28401 has 6 MA's), (80, 28443), (121, 28572), (129, 28593), (149, 28647), (150, 28650), (170, 28752),

Gene: BellusTerra_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for BellusTerra_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698),

Gene: Bench_38 Start: 32572, Stop: 32988, Start Num: 60
Candidate Starts for Bench_38:
(Start: 45 @32527 has 1 MA's), (Start: 60 @32572 has 332 MA's), (83, 32626), (89, 32641), (95, 32659), (102, 32689), (133, 32803), (146, 32830), (149, 32845),

Gene: Bialota_24 Start: 21911, Stop: 22324, Start Num: 62
Candidate Starts for Bialota_24:
(2, 21641), (21, 21800), (42, 21890), (Start: 62 @21911 has 20 MA's), (90, 21986), (93, 21995), (104, 22040), (115, 22103), (157, 22250),

Gene: BigBubba_37 Start: 32475, Stop: 32891, Start Num: 60
Candidate Starts for BigBubba_37:
(Start: 45 @32430 has 1 MA's), (Start: 60 @32475 has 332 MA's), (83, 32529), (89, 32544), (102, 32592), (133, 32706), (146, 32733), (149, 32748),

Gene: BigCheese_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for BigCheese_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: BilboSwaggins_36 Start: 32712, Stop: 33128, Start Num: 60
Candidate Starts for BilboSwaggins_36:
(Start: 45 @32667 has 1 MA's), (Start: 60 @32712 has 332 MA's), (83, 32766), (89, 32781), (95, 32799), (102, 32829), (133, 32943), (146, 32970), (149, 32985),

Gene: Bizzy_45 Start: 39124, Stop: 39570, Start Num: 61
Candidate Starts for Bizzy_45:
(7, 38866), (12, 38917), (30, 39022), (36, 39037), (Start: 61 @39124 has 48 MA's), (75, 39166), (82, 39181), (87, 39193), (128, 39346), (169, 39505), (179, 39553),

Gene: Blackmoor_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Blackmoor_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: BobBob_42 Start: 38700, Stop: 39149, Start Num: 61
Candidate Starts for BobBob_42:
(27, 38592), (30, 38601), (Start: 61 @38700 has 48 MA's), (75, 38742), (82, 38757), (87, 38769), (128, 38922), (160, 39045), (169, 39081), (179, 39132),

Gene: BobsGarage_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for BobsGarage_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: BobtimousPrime_39 Start: 33793, Stop: 34308, Start Num: 46
Candidate Starts for BobtimousPrime_39:
(Start: 46 @33793 has 11 MA's), (51, 33814), (68, 33865), (123, 34066), (150, 34153), (165, 34225), (168, 34243), (170, 34255),

Gene: Bogg_36 Start: 31612, Stop: 32028, Start Num: 60
Candidate Starts for Bogg_36:
(Start: 45 @31567 has 1 MA's), (Start: 60 @31612 has 332 MA's), (83, 31666), (89, 31681), (102, 31729), (133, 31843), (146, 31870), (149, 31885),

Gene: Bombshell_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Bombshell_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: BoostSeason_33 Start: 26994, Stop: 27485, Start Num: 60
Candidate Starts for BoostSeason_33:
(Start: 60 @26994 has 332 MA's), (84, 27051), (90, 27069), (105, 27126), (134, 27261), (146, 27318), (160, 27396), (176, 27474),

Gene: Bosnia_24 Start: 21899, Stop: 22312, Start Num: 62
Candidate Starts for Bosnia_24:
(2, 21629), (15, 21755), (42, 21878), (Start: 62 @21899 has 20 MA's), (90, 21974), (93, 21983), (104, 22028), (115, 22091), (157, 22238),

Gene: BourbonZero_29 Start: 28325, Stop: 28744, Start Num: 54
Candidate Starts for BourbonZero_29:
(Start: 54 @28325 has 21 MA's), (Start: 63 @28349 has 6 MA's), (80, 28391), (104, 28466), (121, 28520), (133, 28553), (149, 28595), (150, 28598), (158, 28646), (170, 28700),

Gene: BrainDrainer_30 Start: 27308, Stop: 27727, Start Num: 55
Candidate Starts for BrainDrainer_30:
(Start: 55 @27308 has 6 MA's), (65, 27332), (74, 27356), (75, 27359), (99, 27428), (121, 27503), (138, 27545), (149, 27578), (150, 27581), (151, 27584), (158, 27629), (170, 27683), (175, 27710),

Gene: Brandonk123_46 Start: 39835, Stop: 40284, Start Num: 61
Candidate Starts for Brandonk123_46:
(27, 39727), (30, 39736), (Start: 61 @39835 has 48 MA's), (75, 39877), (82, 39892), (87, 39904), (128, 40057), (160, 40180), (169, 40216), (179, 40267),

Gene: Brawn1_41 Start: 38908, Stop: 39357, Start Num: 61
Candidate Starts for Brawn1_41:
(30, 38809), (Start: 61 @38908 has 48 MA's), (75, 38950), (82, 38965), (87, 38977), (128, 39130), (160, 39253), (169, 39289), (179, 39340),

Gene: Breezona_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Breezona_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: Brewer_36 Start: 32960, Stop: 33376, Start Num: 60
Candidate Starts for Brewer_36:

(Start: 45 @32915 has 1 MA's), (Start: 60 @32960 has 332 MA's), (83, 33014), (89, 33029), (102, 33077), (133, 33191), (146, 33218), (149, 33233),

Gene: Bromden_31 Start: 27727, Stop: 28146, Start Num: 55
Candidate Starts for Bromden_31:
(Start: 55 @27727 has 6 MA's), (76, 27781), (84, 27796), (87, 27805), (89, 27811), (99, 27847), (121, 27922), (138, 27964), (149, 27997), (150, 28000), (158, 28048), (170, 28102), (175, 28129),

Gene: Broseidon_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Broseidon_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Bruin_36 Start: 32732, Stop: 33148, Start Num: 60
Candidate Starts for Bruin_36:
(Start: 45 @32687 has 1 MA's), (Start: 60 @32732 has 332 MA's), (83, 32786), (89, 32801), (95, 32819), (102, 32849), (133, 32963), (146, 32990), (149, 33005),

Gene: Bruiser_29 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Bruiser_29:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: BubbleTrouble_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for BubbleTrouble_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Buck_35 Start: 32668, Stop: 33084, Start Num: 60
Candidate Starts for Buck_35:
(Start: 45 @32623 has 1 MA's), (Start: 60 @32668 has 332 MA's), (83, 32722), (89, 32737), (95, 32755), (102, 32785), (133, 32899), (146, 32926), (149, 32941),

Gene: Buckaroo_29 Start: 22522, Stop: 22950, Start Num: 60
Candidate Starts for Buckaroo_29:
(Start: 60 @22522 has 332 MA's), (85, 22582), (92, 22603), (102, 22642), (118, 22705), (152, 22840),

Gene: Budgie_38 Start: 32259, Stop: 32675, Start Num: 60
Candidate Starts for Budgie_38:
(Start: 45 @32214 has 1 MA's), (Start: 60 @32259 has 332 MA's), (81, 32310), (86, 32319), (89, 32328), (95, 32346), (133, 32490), (146, 32517), (149, 32532),

Gene: BugsBunny_34 Start: 32301, Stop: 32717, Start Num: 60
Candidate Starts for BugsBunny_34:
(Start: 45 @32256 has 1 MA's), (Start: 60 @32301 has 332 MA's), (83, 32355), (89, 32370), (95, 32388), (102, 32418), (133, 32532), (146, 32559), (149, 32574),

Gene: Bumblebee11_30 Start: 22533, Stop: 22964, Start Num: 60
Candidate Starts for Bumblebee11_30:
(Start: 60 @22533 has 332 MA's), (75, 22572), (85, 22593), (95, 22623), (118, 22716), (148, 22806), (155, 22860), (173, 22938),

Gene: Burger_29 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Burger_29:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Cactus_37 Start: 31923, Stop: 32339, Start Num: 60
Candidate Starts for Cactus_37:
(Start: 45 @31878 has 1 MA's), (Start: 60 @31923 has 332 MA's), (83, 31977), (89, 31992), (95, 32010), (102, 32040), (133, 32154), (146, 32181), (149, 32196),

Gene: Caelakin_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Caelakin_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Calm_29 Start: 27294, Stop: 27713, Start Num: 53
Candidate Starts for Calm_29:
(Start: 53 @27294 has 19 MA's), (Start: 60 @27309 has 332 MA's), (82, 27363), (89, 27378), (104, 27435), (120, 27483), (121, 27489), (129, 27510), (149, 27564), (170, 27669), (175, 27696),

Gene: Camperdownii_29 Start: 22137, Stop: 22565, Start Num: 60
Candidate Starts for Camperdownii_29:
(Start: 60 @22137 has 332 MA's), (75, 22176), (85, 22197), (92, 22218), (101, 22254), (102, 22257), (152, 22455),

Gene: Cborch11_38 Start: 33338, Stop: 33853, Start Num: 46
Candidate Starts for Cborch11_38:
(Start: 46 @33338 has 11 MA's), (68, 33410), (69, 33413), (72, 33425), (108, 33554), (123, 33611), (150, 33698), (165, 33770), (168, 33788), (170, 33800),

Gene: CentreCat_30 Start: 22519, Stop: 22947, Start Num: 60
Candidate Starts for CentreCat_30:
(Start: 60 @22519 has 332 MA's), (85, 22579), (92, 22600), (102, 22639), (118, 22702), (152, 22837),

Gene: Cerulean_31 Start: 22833, Stop: 23261, Start Num: 60
Candidate Starts for Cerulean_31:
(Start: 60 @22833 has 332 MA's), (75, 22872), (85, 22893), (92, 22914), (102, 22953), (118, 23016), (152, 23151), (154, 23157),

Gene: ChadMasterC_45 Start: 40980, Stop: 41429, Start Num: 61
Candidate Starts for ChadMasterC_45:
(30, 40881), (Start: 61 @40980 has 48 MA's), (75, 41022), (82, 41037), (87, 41049), (101, 41100), (128, 41202), (160, 41325), (169, 41361), (179, 41412),

Gene: ChampagnePapi_31 Start: 22832, Stop: 23260, Start Num: 60
Candidate Starts for ChampagnePapi_31:
(Start: 60 @22832 has 332 MA's), (85, 22892), (92, 22913), (102, 22952), (118, 23015), (152, 23150),

Gene: Changeling_33 Start: 24673, Stop: 25104, Start Num: 60
Candidate Starts for Changeling_33:
(Start: 60 @24673 has 332 MA's), (Start: 61 @24676 has 48 MA's), (75, 24712), (136, 24910), (163, 25021),

Gene: Chaph_30 Start: 22527, Stop: 22955, Start Num: 60
Candidate Starts for Chaph_30:
(Start: 60 @22527 has 332 MA's), (85, 22587), (92, 22608), (102, 22647), (118, 22710), (152, 22845),

Gene: Charming_45 Start: 39336, Stop: 39785, Start Num: 61
Candidate Starts for Charming_45:

(27, 39228), (30, 39237), (Start: 61 @39336 has 48 MA's), (75, 39378), (82, 39393), (87, 39405), (128, 39558), (160, 39681), (169, 39717), (179, 39768),

Gene: Chaser_29 Start: 27126, Stop: 27545, Start Num: 55
Candidate Starts for Chaser_29:
(Start: 55 @27126 has 6 MA's), (65, 27150), (74, 27174), (75, 27177), (99, 27246), (121, 27321), (138, 27363), (149, 27396), (150, 27399), (151, 27402), (158, 27447), (170, 27501), (175, 27528),

Gene: ChengKai98_31 Start: 28011, Stop: 28433, Start Num: 52
Candidate Starts for ChengKai98_31:
(Start: 52 @28011 has 32 MA's), (Start: 63 @28038 has 6 MA's), (82, 28083), (89, 28098), (91, 28104), (104, 28155), (121, 28209), (149, 28284), (150, 28287), (161, 28344), (170, 28389), (175, 28416),

Gene: ChosenOne_36 Start: 31920, Stop: 32336, Start Num: 60
Candidate Starts for ChosenOne_36:
(Start: 45 @31875 has 1 MA's), (Start: 60 @31920 has 332 MA's), (83, 31974), (89, 31989), (102, 32037), (133, 32151), (146, 32178), (149, 32193),

Gene: ChotaBhai_36 Start: 31958, Stop: 32374, Start Num: 60
Candidate Starts for ChotaBhai_36:
(Start: 45 @31913 has 1 MA's), (Start: 60 @31958 has 332 MA's), (83, 32012), (89, 32027), (102, 32075), (133, 32189), (146, 32216), (149, 32231),

Gene: Chris_33 Start: 27363, Stop: 27860, Start Num: 60
Candidate Starts for Chris_33:
(30, 27267), (44, 27309), (Start: 60 @27363 has 332 MA's), (Start: 66 @27378 has 1 MA's), (85, 27426), (90, 27441), (104, 27492), (109, 27546), (114, 27573), (127, 27615), (137, 27648), (138, 27663), (146, 27693),

Gene: Chupacabra_31 Start: 22824, Stop: 23255, Start Num: 60
Candidate Starts for Chupacabra_31:
(36, 22740), (Start: 60 @22824 has 332 MA's), (85, 22884), (87, 22890), (95, 22914), (143, 23079), (154, 23148),

Gene: ChutneyChips_30 Start: 27306, Stop: 27725, Start Num: 55
Candidate Starts for ChutneyChips_30:
(Start: 55 @27306 has 6 MA's), (Start: 62 @27321 has 20 MA's), (65, 27330), (75, 27357), (99, 27426), (121, 27501), (133, 27534), (138, 27543), (149, 27576), (150, 27579), (158, 27627), (161, 27636), (170, 27681), (175, 27708),

Gene: CicholasNage_29 Start: 27282, Stop: 27701, Start Num: 53
Candidate Starts for CicholasNage_29:
(Start: 53 @27282 has 19 MA's), (Start: 60 @27297 has 332 MA's), (82, 27351), (89, 27366), (104, 27423), (120, 27471), (121, 27477), (129, 27498), (149, 27552), (170, 27657), (175, 27684),

Gene: Cici_30 Start: 22527, Stop: 22958, Start Num: 60
Candidate Starts for Cici_30:
(Start: 60 @22527 has 332 MA's), (75, 22566), (85, 22587), (95, 22617), (118, 22710), (148, 22800), (155, 22854), (173, 22932),

Gene: Cindaradix_29 Start: 22245, Stop: 22676, Start Num: 60
Candidate Starts for Cindaradix_29:
(Start: 60 @22245 has 332 MA's), (75, 22284), (78, 22290), (123, 22443), (150, 22533),

Gene: Cintron_30 Start: 22563, Stop: 22991, Start Num: 60
Candidate Starts for Cintron_30:
(Start: 60 @22563 has 332 MA's), (75, 22602), (85, 22623), (92, 22644), (101, 22680), (118, 22746), (150, 22854), (152, 22881),

Gene: Citius_30 Start: 22533, Stop: 22961, Start Num: 60
Candidate Starts for Citius_30:
(Start: 60 @22533 has 332 MA's), (85, 22593), (92, 22614), (102, 22653), (118, 22716), (152, 22851),

Gene: Cjw1_36 Start: 33427, Stop: 33888, Start Num: 45
Candidate Starts for Cjw1_36:
(Start: 45 @33427 has 1 MA's), (Start: 60 @33472 has 332 MA's), (83, 33526), (89, 33541), (95, 33559), (102, 33589), (133, 33703), (146, 33730), (149, 33745),

Gene: Clarenza_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Clarenza_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: Claus_31 Start: 27986, Stop: 28408, Start Num: 52
Candidate Starts for Claus_31:
(Start: 52 @27986 has 32 MA's), (Start: 63 @28013 has 6 MA's), (82, 28058), (89, 28073), (91, 28079), (104, 28130), (121, 28184), (129, 28205), (149, 28259), (150, 28262), (161, 28319), (170, 28364), (175, 28391),

Gene: Clautastrophe_30 Start: 28374, Stop: 28793, Start Num: 54
Candidate Starts for Clautastrophe_30:
(Start: 54 @28374 has 21 MA's), (Start: 63 @28398 has 6 MA's), (80, 28440), (121, 28569), (129, 28590), (149, 28644), (150, 28647), (170, 28749),

Gene: Cocoaberry_30 Start: 22522, Stop: 22950, Start Num: 60
Candidate Starts for Cocoaberry_30:
(Start: 60 @22522 has 332 MA's), (85, 22582), (92, 22603), (102, 22642), (118, 22705), (152, 22840),

Gene: Colossa_31 Start: 26024, Stop: 26461, Start Num: 59
Candidate Starts for Colossa_31:
(3, 25772), (17, 25892), (19, 25904), (40, 26000), (Start: 59 @26024 has 1 MA's), (82, 26078), (85, 26084), (93, 26108), (111, 26207), (125, 26240), (177, 26450),

Gene: Command613_37 Start: 32979, Stop: 33395, Start Num: 60
Candidate Starts for Command613_37:
(Start: 45 @32934 has 1 MA's), (Start: 60 @32979 has 332 MA's), (83, 33033), (89, 33048), (95, 33066), (102, 33096), (133, 33210), (146, 33237), (149, 33252),

Gene: Commander_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Commander_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701),

Gene: Connomayer_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Connomayer_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Contagion_35 Start: 32216, Stop: 32632, Start Num: 60

Candidate Starts for Contagion_35:
(Start: 45 @32171 has 1 MA's), (Start: 60 @32216 has 332 MA's), (83, 32270), (89, 32285), (95, 32303), (102, 32333), (133, 32447), (146, 32474), (149, 32489),

Gene: Cookies_36 Start: 32581, Stop: 32997, Start Num: 60
Candidate Starts for Cookies_36:
(Start: 45 @32536 has 1 MA's), (Start: 60 @32581 has 332 MA's), (83, 32635), (89, 32650), (102, 32698), (133, 32812), (146, 32839), (149, 32854),

Gene: Crossroads_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Crossroads_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: CrystalP_36 Start: 32712, Stop: 33128, Start Num: 60
Candidate Starts for CrystalP_36:
(Start: 45 @32667 has 1 MA's), (Start: 60 @32712 has 332 MA's), (83, 32766), (89, 32781), (95, 32799), (102, 32829), (133, 32943), (146, 32970), (149, 32985),

Gene: Czyszczon1_37 Start: 32457, Stop: 32873, Start Num: 60
Candidate Starts for Czyszczon1_37:
(Start: 45 @32412 has 1 MA's), (Start: 60 @32457 has 332 MA's), (83, 32511), (89, 32526), (95, 32544), (102, 32574), (133, 32688), (146, 32715), (149, 32730),

Gene: DHan_31 Start: 27922, Stop: 28344, Start Num: 52
Candidate Starts for DHan_31:
(Start: 52 @27922 has 32 MA's), (Start: 63 @27949 has 6 MA's), (82, 27994), (89, 28009), (91, 28015), (104, 28066), (121, 28120), (149, 28195), (150, 28198), (161, 28255), (170, 28300), (175, 28327),

Gene: Daikon_35 Start: 32450, Stop: 32866, Start Num: 60
Candidate Starts for Daikon_35:
(Start: 45 @32405 has 1 MA's), (Start: 60 @32450 has 332 MA's), (81, 32501), (86, 32510), (89, 32519), (95, 32537), (102, 32567), (133, 32681), (146, 32708), (149, 32723),

Gene: Damien_37 Start: 33339, Stop: 33854, Start Num: 46
Candidate Starts for Damien_37:
(Start: 46 @33339 has 11 MA's), (68, 33411), (69, 33414), (72, 33426), (108, 33555), (123, 33612), (150, 33699), (165, 33771), (168, 33789), (170, 33801),

Gene: DanBing_30 Start: 27826, Stop: 28248, Start Num: 52
Candidate Starts for DanBing_30:
(Start: 52 @27826 has 32 MA's), (Start: 63 @27853 has 6 MA's), (82, 27898), (89, 27913), (91, 27919), (104, 27970), (121, 28024), (149, 28099), (150, 28102), (161, 28159), (170, 28204), (175, 28231),

Gene: Datway_30 Start: 22542, Stop: 22973, Start Num: 60
Candidate Starts for Datway_30:
(Start: 60 @22542 has 332 MA's), (75, 22581), (85, 22602), (95, 22632), (118, 22725), (148, 22815), (155, 22869), (173, 22947),

Gene: Deano_30 Start: 22526, Stop: 22954, Start Num: 60
Candidate Starts for Deano_30:
(Start: 60 @22526 has 332 MA's), (85, 22586), (92, 22607), (102, 22646), (118, 22709), (152, 22844),

Gene: DeerParkTS_32 Start: 22892, Stop: 23320, Start Num: 60
Candidate Starts for DeerParkTS_32:
(Start: 52 @22871 has 32 MA's), (Start: 60 @22892 has 332 MA's), (113, 23066), (136, 23129), (154, 23216),

Gene: Derg_40 Start: 38716, Stop: 39162, Start Num: 61
Candidate Starts for Derg_40:
(12, 38509), (30, 38614), (36, 38629), (Start: 61 @38716 has 48 MA's), (75, 38758), (82, 38773), (87, 38785), (128, 38938), (169, 39097), (179, 39145),

Gene: Dhanush_30 Start: 22521, Stop: 22949, Start Num: 60
Candidate Starts for Dhanush_30:
(Start: 60 @22521 has 332 MA's), (85, 22581), (92, 22602), (102, 22641), (118, 22704), (152, 22839),

Gene: DirkDirk_29 Start: 27263, Stop: 27682, Start Num: 53
Candidate Starts for DirkDirk_29:
(Start: 53 @27263 has 19 MA's), (Start: 60 @27278 has 332 MA's), (82, 27332), (89, 27347), (104, 27404), (120, 27452), (121, 27458), (129, 27479), (149, 27533), (170, 27638), (175, 27665),

Gene: DirtyDunning_30 Start: 22511, Stop: 22939, Start Num: 60
Candidate Starts for DirtyDunning_30:
(Start: 60 @22511 has 332 MA's), (75, 22550), (85, 22571), (92, 22592), (101, 22628), (102, 22631), (152, 22829),

Gene: DismalFunk_32 Start: 26906, Stop: 27397, Start Num: 60
Candidate Starts for DismalFunk_32:
(Start: 60 @26906 has 332 MA's), (84, 26963), (90, 26981), (105, 27038), (134, 27173), (139, 27203), (146, 27230), (150, 27254), (160, 27308), (163, 27317),

Gene: DismalStressor_32 Start: 26906, Stop: 27397, Start Num: 60
Candidate Starts for DismalStressor_32:
(Start: 60 @26906 has 332 MA's), (84, 26963), (90, 26981), (105, 27038), (134, 27173), (139, 27203), (146, 27230), (150, 27254), (160, 27308), (163, 27317),

Gene: DoctorDiddles_36 Start: 31874, Stop: 32290, Start Num: 60
Candidate Starts for DoctorDiddles_36:
(Start: 45 @31829 has 1 MA's), (Start: 60 @31874 has 332 MA's), (83, 31928), (89, 31943), (95, 31961), (102, 31991), (133, 32105), (146, 32132), (149, 32147),

Gene: Dogfish_26 Start: 22166, Stop: 22594, Start Num: 62
Candidate Starts for Dogfish_26:
(13, 22007), (18, 22034), (47, 22148), (57, 22160), (Start: 62 @22166 has 20 MA's), (85, 22226), (93, 22250), (101, 22283), (102, 22286), (115, 22358), (125, 22382),

Gene: DontArgue_30 Start: 21211, Stop: 21642, Start Num: 60
Candidate Starts for DontArgue_30:
(22, 21085), (34, 21121), (35, 21124), (Start: 52 @21190 has 32 MA's), (Start: 60 @21211 has 332 MA's), (85, 21271), (116, 21391), (118, 21394), (140, 21457), (155, 21538),

Gene: Douge_29 Start: 27064, Stop: 27483, Start Num: 55
Candidate Starts for Douge_29:
(Start: 55 @27064 has 6 MA's), (65, 27088), (74, 27112), (75, 27115), (99, 27184), (121, 27259), (138, 27301), (149, 27334), (150, 27337), (151, 27340), (158, 27385), (170, 27439), (175, 27466),

Gene: Doughnut_33 Start: 26987, Stop: 27478, Start Num: 60
Candidate Starts for Doughnut_33:
(Start: 60 @26987 has 332 MA's), (84, 27044), (90, 27062), (105, 27119), (134, 27254), (146, 27311), (160, 27389), (176, 27467),

Gene: Douzhi_29 Start: 27169, Stop: 27588, Start Num: 55
Candidate Starts for Douzhi_29:
(Start: 55 @27169 has 6 MA's), (65, 27193), (74, 27217), (75, 27220), (99, 27289), (121, 27364), (138, 27406), (149, 27439), (150, 27442), (151, 27445), (158, 27490), (170, 27544), (175, 27571),

Gene: DrDrey_37 Start: 33204, Stop: 33620, Start Num: 60
Candidate Starts for DrDrey_37:
(Start: 45 @33159 has 1 MA's), (Start: 60 @33204 has 332 MA's), (83, 33258), (89, 33273), (102, 33321), (133, 33435), (146, 33462), (149, 33477),

Gene: DrSeegs_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for DrSeegs_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: Drake94_30 Start: 20956, Stop: 21384, Start Num: 60
Candidate Starts for Drake94_30:
(Start: 60 @20956 has 332 MA's), (75, 20995), (78, 21001), (87, 21022), (95, 21046), (118, 21139), (174, 21364),

Gene: DroogsArmy_31 Start: 25323, Stop: 25751, Start Num: 60
Candidate Starts for DroogsArmy_31:
(Start: 60 @25323 has 332 MA's), (84, 25380), (88, 25392), (95, 25413), (129, 25533), (135, 25554), (148, 25593), (150, 25611), (154, 25644), (164, 25677),

Gene: Druantia_30 Start: 22519, Stop: 22947, Start Num: 60
Candidate Starts for Druantia_30:
(Start: 60 @22519 has 332 MA's), (85, 22579), (92, 22600), (102, 22639), (118, 22702), (152, 22837),

Gene: Dumbo_36 Start: 32179, Stop: 32595, Start Num: 60
Candidate Starts for Dumbo_36:
(Start: 45 @32134 has 1 MA's), (Start: 60 @32179 has 332 MA's), (83, 32233), (89, 32248), (95, 32266), (102, 32296), (133, 32410), (146, 32437), (149, 32452),

Gene: DuncansLeg_30 Start: 28348, Stop: 28767, Start Num: 54
Candidate Starts for DuncansLeg_30:
(Start: 54 @28348 has 21 MA's), (Start: 63 @28372 has 6 MA's), (80, 28414), (104, 28489), (121, 28543), (133, 28576), (149, 28618), (150, 28621), (158, 28669), (170, 28723),

Gene: Dusk_35 Start: 32364, Stop: 32780, Start Num: 60
Candidate Starts for Dusk_35:
(Start: 45 @32319 has 1 MA's), (Start: 60 @32364 has 332 MA's), (83, 32418), (89, 32433), (102, 32481), (133, 32595), (146, 32622), (149, 32637),

Gene: DustyMartin_35 Start: 22921, Stop: 23352, Start Num: 60
Candidate Starts for DustyMartin_35:
(Start: 60 @22921 has 332 MA's), (85, 22981), (118, 23104), (154, 23245), (163, 23269),

Gene: DyoEdafos_30 Start: 27265, Stop: 27684, Start Num: 55
Candidate Starts for DyoEdafos_30:
(Start: 55 @27265 has 6 MA's), (Start: 62 @27280 has 20 MA's), (65, 27289), (75, 27316), (99, 27385), (121, 27460), (133, 27493), (138, 27502), (149, 27535), (158, 27586), (170, 27640), (175, 27667),

Gene: Eagle_29 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Eagle_29:
(Start: 60 @22518 has 332 MA's), (75, 22557), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836), (154, 22842),

Gene: Eaglepride_32 Start: 22834, Stop: 23265, Start Num: 60
Candidate Starts for Eaglepride_32:
(Start: 60 @22834 has 332 MA's), (65, 22846), (75, 22873), (82, 22888), (118, 23017), (136, 23071), (140, 23080), (163, 23182), (173, 23239),

Gene: Eapen_30 Start: 22517, Stop: 22945, Start Num: 60
Candidate Starts for Eapen_30:
(Start: 60 @22517 has 332 MA's), (85, 22577), (92, 22598), (98, 22622), (102, 22637), (118, 22700), (152, 22835),

Gene: Easy2Say_38 Start: 33962, Stop: 34378, Start Num: 60
Candidate Starts for Easy2Say_38:
(Start: 45 @33917 has 1 MA's), (Start: 60 @33962 has 332 MA's), (83, 34016), (89, 34031), (95, 34049), (102, 34079), (133, 34193), (146, 34220), (149, 34235),

Gene: Edison31_31 Start: 22864, Stop: 23295, Start Num: 60
Candidate Starts for Edison31_31:
(37, 22786), (44, 22807), (Start: 60 @22864 has 332 MA's), (75, 22903), (116, 23044), (118, 23047), (143, 23119), (154, 23188), (163, 23212),

Gene: Elite2014_35 Start: 31919, Stop: 32335, Start Num: 60
Candidate Starts for Elite2014_35:
(Start: 45 @31874 has 1 MA's), (Start: 60 @31919 has 332 MA's), (83, 31973), (89, 31988), (102, 32036), (133, 32150), (146, 32177), (149, 32192),

Gene: Ellson_30 Start: 28335, Stop: 28754, Start Num: 54
Candidate Starts for Ellson_30:
(Start: 54 @28335 has 21 MA's), (Start: 63 @28359 has 6 MA's), (80, 28401), (104, 28476), (121, 28530), (133, 28563), (149, 28605), (150, 28608), (158, 28656), (170, 28710),

Gene: Elph10_37 Start: 32182, Stop: 32598, Start Num: 60
Candidate Starts for Elph10_37:
(Start: 45 @32137 has 1 MA's), (Start: 60 @32182 has 332 MA's), (83, 32236), (89, 32251), (95, 32269), (102, 32299), (133, 32413), (146, 32440), (149, 32455),

Gene: Emmina_37 Start: 32540, Stop: 32956, Start Num: 60
Candidate Starts for Emmina_37:
(Start: 45 @32495 has 1 MA's), (Start: 60 @32540 has 332 MA's), (83, 32594), (89, 32609), (102, 32657), (133, 32771), (146, 32798), (149, 32813),

Gene: Enceladus_29 Start: 27264, Stop: 27683, Start Num: 53
Candidate Starts for Enceladus_29:

(Start: 53 @27264 has 19 MA's), (Start: 60 @27279 has 332 MA's), (82, 27333), (89, 27348), (104, 27405), (120, 27453), (121, 27459), (129, 27480), (149, 27534), (170, 27639), (175, 27666),

Gene: Eris_29 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Eris_29:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Eros_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Eros_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Eureka_36 Start: 32695, Stop: 33111, Start Num: 60
Candidate Starts for Eureka_36:
(Start: 45 @32650 has 1 MA's), (Start: 60 @32695 has 332 MA's), (83, 32749), (89, 32764), (95, 32782), (102, 32812), (133, 32926), (146, 32953), (149, 32968),

Gene: Eurydice_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Eurydice_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698),

Gene: Eviarto_24 Start: 21899, Stop: 22312, Start Num: 62
Candidate Starts for Eviarto_24:
(2, 21629), (15, 21755), (42, 21878), (Start: 62 @21899 has 20 MA's), (90, 21974), (93, 21983), (104, 22028), (115, 22091), (157, 22238),

Gene: Ewald_27 Start: 22552, Stop: 22968, Start Num: 62
Candidate Starts for Ewald_27:
(15, 22375), (40, 22495), (42, 22498), (50, 22519), (Start: 62 @22552 has 20 MA's), (76, 22594), (82, 22606), (93, 22636), (101, 22669), (125, 22768),

Gene: FairyPath_36 Start: 32907, Stop: 33323, Start Num: 60
Candidate Starts for FairyPath_36:
(Start: 45 @32862 has 1 MA's), (Start: 60 @32907 has 332 MA's), (83, 32961), (89, 32976), (95, 32994), (102, 33024), (133, 33138), (146, 33165), (149, 33180),

Gene: Faith1_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Faith1_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: Farewell_30 Start: 27478, Stop: 27966, Start Num: 58
Candidate Starts for Farewell_30:
(25, 27367), (48, 27439), (Start: 58 @27478 has 6 MA's), (67, 27502), (76, 27529), (79, 27535), (85, 27547), (91, 27565), (99, 27595), (102, 27607), (134, 27742), (141, 27763), (144, 27775),

Gene: FarmResident_29 Start: 27108, Stop: 27527, Start Num: 55
Candidate Starts for FarmResident_29:
(Start: 55 @27108 has 6 MA's), (65, 27132), (74, 27156), (75, 27159), (99, 27228), (121, 27303), (138, 27345), (149, 27378), (150, 27381), (151, 27384), (170, 27483), (175, 27510),

Gene: Filch_37 Start: 32470, Stop: 32886, Start Num: 60
Candidate Starts for Filch_37:

(Start: 45 @32425 has 1 MA's), (Start: 60 @32470 has 332 MA's), (83, 32524), (89, 32539), (95, 32557), (102, 32587), (133, 32701), (146, 32728), (149, 32743),

Gene: Findley_32 Start: 26898, Stop: 27389, Start Num: 60
Candidate Starts for Findley_32:
(Start: 60 @26898 has 332 MA's), (84, 26955), (90, 26973), (105, 27030), (134, 27165), (139, 27195), (146, 27222), (150, 27246), (160, 27300), (163, 27309),

Gene: Finemlucis_31 Start: 28285, Stop: 28707, Start Num: 52
Candidate Starts for Finemlucis_31:
(Start: 52 @28285 has 32 MA's), (Start: 63 @28312 has 6 MA's), (82, 28357), (89, 28372), (91, 28378), (104, 28429), (121, 28483), (149, 28558), (150, 28561), (161, 28618), (170, 28663), (175, 28690),

Gene: Finnry_30 Start: 28378, Stop: 28797, Start Num: 54
Candidate Starts for Finnry_30:
(Start: 54 @28378 has 21 MA's), (Start: 63 @28402 has 6 MA's), (80, 28444), (121, 28573), (129, 28594), (149, 28648), (150, 28651), (170, 28753),

Gene: FireRed_36 Start: 32740, Stop: 33156, Start Num: 60
Candidate Starts for FireRed_36:
(Start: 45 @32695 has 1 MA's), (Start: 60 @32740 has 332 MA's), (83, 32794), (89, 32809), (95, 32827), (102, 32857), (133, 32971), (146, 32998), (149, 33013),

Gene: Fitzgerald_43 Start: 40238, Stop: 40687, Start Num: 61
Candidate Starts for Fitzgerald_43:
(27, 40130), (30, 40139), (Start: 61 @40238 has 48 MA's), (75, 40280), (82, 40295), (87, 40307), (128, 40460), (160, 40583), (169, 40619), (179, 40670),

Gene: Flatwoods_45 Start: 39068, Stop: 39514, Start Num: 61
Candidate Starts for Flatwoods_45:
(7, 38810), (12, 38861), (30, 38966), (36, 38981), (Start: 61 @39068 has 48 MA's), (75, 39110), (82, 39125), (87, 39137), (128, 39290), (169, 39449), (179, 39497),

Gene: Florean_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Florean_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: Flux_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Flux_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Flypotenuse_34 Start: 32308, Stop: 32724, Start Num: 60
Candidate Starts for Flypotenuse_34:
(Start: 45 @32263 has 1 MA's), (Start: 60 @32308 has 332 MA's), (83, 32362), (89, 32377), (102, 32425), (133, 32539), (146, 32566), (149, 32581),

Gene: FoghornLeghorn_35 Start: 32216, Stop: 32632, Start Num: 60
Candidate Starts for FoghornLeghorn_35:
(Start: 45 @32171 has 1 MA's), (Start: 60 @32216 has 332 MA's), (83, 32270), (89, 32285), (95, 32303), (102, 32333), (133, 32447), (146, 32474), (149, 32489),

Gene: ForesterFrank_33 Start: 24334, Stop: 24768, Start Num: 60
Candidate Starts for ForesterFrank_33:

(Start: 60 @24334 has 332 MA's), (85, 24397), (136, 24574),

Gene: Fosterous_42 Start: 38797, Stop: 39246, Start Num: 61
Candidate Starts for Fosterous_42:
(30, 38698), (Start: 61 @38797 has 48 MA's), (75, 38839), (82, 38854), (87, 38866), (128, 39019), (160, 39142), (169, 39178), (179, 39229),

Gene: Frizzle_22 Start: 19556, Stop: 19969, Start Num: 62
Candidate Starts for Frizzle_22:
(Start: 62 @19556 has 20 MA's), (74, 19589), (116, 19748), (118, 19751),

Gene: Fryberger_63 Start: 35468, Stop: 35857, Start Num: 63
Candidate Starts for Fryberger_63:
(Start: 63 @35468 has 6 MA's), (75, 35504), (100, 35576), (125, 35681), (139, 35717), (150, 35759), (154, 35792),

Gene: FuegoCuervo_47 Start: 38665, Stop: 39114, Start Num: 61
Candidate Starts for FuegoCuervo_47:
(1, 38278), (7, 38413), (Start: 61 @38665 has 48 MA's), (75, 38707), (101, 38785), (128, 38887), (160, 39010), (169, 39046),

Gene: Funston_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Funston_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Gabriela_31 Start: 28271, Stop: 28693, Start Num: 52
Candidate Starts for Gabriela_31:
(Start: 52 @28271 has 32 MA's), (Start: 63 @28298 has 6 MA's), (82, 28343), (89, 28358), (91, 28364), (104, 28415), (121, 28469), (149, 28544), (150, 28547), (161, 28604), (170, 28649), (175, 28676),

Gene: Gadost_30 Start: 22522, Stop: 22950, Start Num: 60
Candidate Starts for Gadost_30:
(Start: 60 @22522 has 332 MA's), (85, 22582), (92, 22603), (102, 22642), (118, 22705), (152, 22840),

Gene: Gaea_44 Start: 38712, Stop: 39158, Start Num: 61
Candidate Starts for Gaea_44:
(6, 38436), (7, 38454), (12, 38505), (30, 38610), (36, 38625), (Start: 61 @38712 has 48 MA's), (75, 38754), (82, 38769), (87, 38781), (128, 38934), (169, 39093), (179, 39141),

Gene: Gage_38 Start: 32702, Stop: 33118, Start Num: 60
Candidate Starts for Gage_38:
(Start: 45 @32657 has 1 MA's), (Start: 60 @32702 has 332 MA's), (83, 32756), (89, 32771), (95, 32789), (102, 32819), (133, 32933), (146, 32960), (149, 32975),

Gene: Galadriel_44 Start: 39604, Stop: 40053, Start Num: 61
Candidate Starts for Galadriel_44:
(27, 39496), (30, 39505), (Start: 61 @39604 has 48 MA's), (75, 39646), (82, 39661), (87, 39673), (101, 39724), (128, 39826), (160, 39949), (169, 39985), (179, 40036),

Gene: Gardann_31 Start: 28011, Stop: 28433, Start Num: 52
Candidate Starts for Gardann_31:
(Start: 52 @28011 has 32 MA's), (Start: 63 @28038 has 6 MA's), (82, 28083), (89, 28098), (91, 28104), (104, 28155), (121, 28209), (149, 28284), (150, 28287), (161, 28344), (170, 28389), (175, 28416),

Gene: Gator_34 Start: 32320, Stop: 32736, Start Num: 60
Candidate Starts for Gator_34:
(Start: 45 @32275 has 1 MA's), (Start: 60 @32320 has 332 MA's), (83, 32374), (89, 32389), (95, 32407), (102, 32437), (133, 32551), (146, 32578), (149, 32593),

Gene: Gemini_39 Start: 33219, Stop: 33635, Start Num: 60
Candidate Starts for Gemini_39:
(Start: 45 @33174 has 1 MA's), (Start: 60 @33219 has 332 MA's), (83, 33273), (89, 33288), (95, 33306), (102, 33336), (133, 33450), (146, 33477), (149, 33492),

Gene: Geodirt_43 Start: 40216, Stop: 40665, Start Num: 61
Candidate Starts for Geodirt_43:
(30, 40117), (Start: 61 @40216 has 48 MA's), (75, 40258), (82, 40273), (87, 40285), (128, 40438), (160, 40561), (169, 40597), (179, 40648),

Gene: Ghobes_23 Start: 19556, Stop: 19969, Start Num: 62
Candidate Starts for Ghobes_23:
(Start: 62 @19556 has 20 MA's), (74, 19589), (116, 19748), (118, 19751), (153, 19874),

Gene: Glexan_34 Start: 32308, Stop: 32724, Start Num: 60
Candidate Starts for Glexan_34:
(Start: 45 @32263 has 1 MA's), (Start: 60 @32308 has 332 MA's), (83, 32362), (89, 32377), (102, 32425), (133, 32539), (146, 32566), (149, 32581),

Gene: Goku_36 Start: 32424, Stop: 32840, Start Num: 60
Candidate Starts for Goku_36:
(Start: 45 @32379 has 1 MA's), (Start: 60 @32424 has 332 MA's), (83, 32478), (89, 32493), (95, 32511), (102, 32541), (133, 32655), (146, 32682), (149, 32697),

Gene: GoldenSpark_38 Start: 32702, Stop: 33118, Start Num: 60
Candidate Starts for GoldenSpark_38:
(Start: 45 @32657 has 1 MA's), (Start: 60 @32702 has 332 MA's), (83, 32756), (89, 32771), (95, 32789), (102, 32819), (133, 32933), (146, 32960), (149, 32975),

Gene: Goldilocks_37 Start: 32122, Stop: 32538, Start Num: 60
Candidate Starts for Goldilocks_37:
(Start: 45 @32077 has 1 MA's), (Start: 60 @32122 has 332 MA's), (83, 32176), (89, 32191), (95, 32209), (102, 32239), (103, 32242), (133, 32353), (146, 32380), (149, 32395),

Gene: GooberAzure_38 Start: 32702, Stop: 33118, Start Num: 60
Candidate Starts for GooberAzure_38:
(Start: 45 @32657 has 1 MA's), (Start: 60 @32702 has 332 MA's), (83, 32756), (89, 32771), (95, 32789), (102, 32819), (133, 32933), (146, 32960), (149, 32975),

Gene: Goose_31 Start: 22825, Stop: 23256, Start Num: 60
Candidate Starts for Goose_31:
(36, 22741), (Start: 60 @22825 has 332 MA's), (85, 22885), (87, 22891), (95, 22915), (143, 23080), (154, 23149),

Gene: Greep_37 Start: 33032, Stop: 33448, Start Num: 60
Candidate Starts for Greep_37:

(Start: 45 @32987 has 1 MA's), (Start: 60 @33032 has 332 MA's), (83, 33086), (89, 33101), (95, 33119), (102, 33149), (133, 33263), (146, 33290), (149, 33305),

Gene: Guey18_69 Start: 36988, Stop: 37377, Start Num: 63
Candidate Starts for Guey18_69:
(Start: 63 @36988 has 6 MA's), (75, 37024), (100, 37096), (125, 37201), (139, 37237), (150, 37279), (154, 37312),

Gene: Gustavo_44 Start: 38884, Stop: 39330, Start Num: 61
Candidate Starts for Gustavo_44:
(12, 38677), (30, 38782), (36, 38797), (Start: 61 @38884 has 48 MA's), (75, 38926), (82, 38941), (87, 38953), (128, 39106), (169, 39265), (179, 39313),

Gene: GuuelaD_31 Start: 28043, Stop: 28465, Start Num: 52
Candidate Starts for GuuelaD_31:
(Start: 52 @28043 has 32 MA's), (Start: 63 @28070 has 6 MA's), (82, 28115), (89, 28130), (91, 28136), (104, 28187), (121, 28241), (149, 28316), (150, 28319), (161, 28376), (170, 28421), (175, 28448),

Gene: HINdeR_30 Start: 25427, Stop: 25855, Start Num: 60
Candidate Starts for HINdeR_30:
(Start: 60 @25427 has 332 MA's), (84, 25484), (95, 25517), (129, 25637), (148, 25697), (150, 25715), (154, 25748), (176, 25850),

Gene: Hafay_31 Start: 28042, Stop: 28464, Start Num: 52
Candidate Starts for Hafay_31:
(Start: 52 @28042 has 32 MA's), (Start: 63 @28069 has 6 MA's), (82, 28114), (89, 28129), (91, 28135), (104, 28186), (121, 28240), (149, 28315), (150, 28318), (161, 28375), (170, 28420), (175, 28447),

Gene: Halena_29 Start: 27291, Stop: 27710, Start Num: 53
Candidate Starts for Halena_29:
(Start: 53 @27291 has 19 MA's), (Start: 60 @27306 has 332 MA's), (82, 27360), (89, 27375), (104, 27432), (120, 27480), (121, 27486), (129, 27507), (149, 27561), (170, 27666), (175, 27693),

Gene: HamSlice_29 Start: 22516, Stop: 22944, Start Num: 60
Candidate Starts for HamSlice_29:
(Start: 60 @22516 has 332 MA's), (85, 22576), (92, 22597), (102, 22636), (118, 22699), (152, 22834),

Gene: HanKaySha_37 Start: 32454, Stop: 32870, Start Num: 60
Candidate Starts for HanKaySha_37:
(Start: 45 @32409 has 1 MA's), (Start: 60 @32454 has 332 MA's), (83, 32508), (89, 32523), (95, 32541), (102, 32571), (133, 32685), (146, 32712), (149, 32727),

Gene: Happiness_30 Start: 22524, Stop: 22952, Start Num: 60
Candidate Starts for Happiness_30:
(Start: 60 @22524 has 332 MA's), (75, 22563), (85, 22584), (92, 22605), (102, 22644), (118, 22707), (152, 22842), (154, 22848),

Gene: Harella_35 Start: 32824, Stop: 33240, Start Num: 60
Candidate Starts for Harella_35:
(Start: 45 @32779 has 1 MA's), (Start: 60 @32824 has 332 MA's), (83, 32878), (89, 32893), (102, 32941), (133, 33055), (146, 33082), (149, 33097),

Gene: Henry_37 Start: 32712, Stop: 33128, Start Num: 60

Candidate Starts for Henry_37:
(Start: 45 @32667 has 1 MA's), (Start: 60 @32712 has 332 MA's), (83, 32766), (89, 32781), (102, 32829), (133, 32943), (146, 32970), (149, 32985),

Gene: Herbertwm_28 Start: 21463, Stop: 21894, Start Num: 60
Candidate Starts for Herbertwm_28:
(28, 21358), (34, 21373), (37, 21385), (Start: 60 @21463 has 332 MA's), (85, 21523), (101, 21580), (136, 21700), (164, 21814),

Gene: Herod_24 Start: 21899, Stop: 22312, Start Num: 62
Candidate Starts for Herod_24:
(2, 21629), (15, 21755), (42, 21878), (Start: 62 @21899 has 20 MA's), (90, 21974), (93, 21983), (104, 22028), (115, 22091), (157, 22238),

Gene: Highbury_37 Start: 32370, Stop: 32786, Start Num: 60
Candidate Starts for Highbury_37:
(Start: 45 @32325 has 1 MA's), (Start: 60 @32370 has 332 MA's), (83, 32424), (89, 32439), (95, 32457), (102, 32487), (133, 32601), (146, 32628), (149, 32643),

Gene: Hiraya_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Hiraya_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: Holli_30 Start: 22308, Stop: 22736, Start Num: 60
Candidate Starts for Holli_30:
(Start: 60 @22308 has 332 MA's), (85, 22368), (92, 22389), (102, 22428), (118, 22491), (152, 22626),

Gene: Holt_37 Start: 31989, Stop: 32405, Start Num: 60
Candidate Starts for Holt_37:
(Start: 45 @31944 has 1 MA's), (Start: 60 @31989 has 332 MA's), (83, 32043), (89, 32058), (102, 32106), (133, 32220), (146, 32247), (149, 32262),

Gene: Hoonter_38 Start: 32702, Stop: 33118, Start Num: 60
Candidate Starts for Hoonter_38:
(Start: 45 @32657 has 1 MA's), (Start: 60 @32702 has 332 MA's), (83, 32756), (89, 32771), (95, 32789), (102, 32819), (133, 32933), (146, 32960), (149, 32975),

Gene: Hopey_38 Start: 32989, Stop: 33405, Start Num: 60
Candidate Starts for Hopey_38:
(Start: 45 @32944 has 1 MA's), (Start: 60 @32989 has 332 MA's), (83, 33043), (89, 33058), (95, 33076), (102, 33106), (133, 33220), (146, 33247), (149, 33262),

Gene: Houdini22_30 Start: 22522, Stop: 22950, Start Num: 60
Candidate Starts for Houdini22_30:
(Start: 60 @22522 has 332 MA's), (85, 22582), (92, 22603), (102, 22642), (118, 22705), (152, 22840),

Gene: HufflyPuff_35 Start: 32696, Stop: 33112, Start Num: 60
Candidate Starts for HufflyPuff_35:
(Start: 45 @32651 has 1 MA's), (Start: 60 @32696 has 332 MA's), (83, 32750), (89, 32765), (95, 32783), (102, 32813), (133, 32927), (146, 32954), (149, 32969),

Gene: Hugley_24 Start: 21899, Stop: 22312, Start Num: 62

Candidate Starts for Hugley_24:
(2, 21629), (15, 21755), (42, 21878), (Start: 62 @21899 has 20 MA's), (90, 21974), (93, 21983), (104, 22028), (115, 22091), (157, 22238),

Gene: Huxley_30 Start: 22579, Stop: 23007, Start Num: 60
Candidate Starts for Huxley_30:
(Start: 60 @22579 has 332 MA's), (75, 22618), (85, 22639), (92, 22660), (101, 22696), (102, 22699), (152, 22897),

Gene: ICleared_30 Start: 22516, Stop: 22944, Start Num: 60
Candidate Starts for ICleared_30:
(Start: 60 @22516 has 332 MA's), (85, 22576), (92, 22597), (102, 22636), (118, 22699), (152, 22834),

Gene: IHOP_36 Start: 32889, Stop: 33305, Start Num: 60
Candidate Starts for IHOP_36:
(Start: 45 @32844 has 1 MA's), (Start: 60 @32889 has 332 MA's), (83, 32943), (89, 32958), (102, 33006), (133, 33120), (146, 33147), (149, 33162),

Gene: Icee_35 Start: 32370, Stop: 32786, Start Num: 60
Candidate Starts for Icee_35:
(Start: 45 @32325 has 1 MA's), (Start: 60 @32370 has 332 MA's), (83, 32424), (89, 32439), (95, 32457), (102, 32487), (133, 32601), (146, 32628), (149, 32643),

Gene: Iceman_31 Start: 22807, Stop: 23235, Start Num: 60
Candidate Starts for Iceman_31:
(Start: 60 @22807 has 332 MA's), (85, 22867), (92, 22888), (102, 22927), (118, 22990), (152, 23125),

Gene: IdentityCrisis_29 Start: 23867, Stop: 24355, Start Num: 58
Candidate Starts for IdentityCrisis_29:
(26, 23759), (48, 23828), (Start: 58 @23867 has 6 MA's), (67, 23891), (76, 23918), (78, 23921), (79, 23924), (85, 23936), (99, 23984), (102, 23996), (134, 24131), (141, 24152), (144, 24164),

Gene: Inca_35 Start: 31391, Stop: 31807, Start Num: 60
Candidate Starts for Inca_35:
(Start: 45 @31346 has 1 MA's), (Start: 60 @31391 has 332 MA's), (83, 31445), (89, 31460), (95, 31478), (102, 31508), (133, 31622), (146, 31649), (149, 31664),

Gene: Iracema64_31 Start: 22826, Stop: 23254, Start Num: 60
Candidate Starts for Iracema64_31:
(Start: 60 @22826 has 332 MA's), (75, 22865), (85, 22886), (92, 22907), (101, 22943), (102, 22946), (152, 23144),

Gene: IronMan_33 Start: 24398, Stop: 24832, Start Num: 60
Candidate Starts for IronMan_33:
(Start: 60 @24398 has 332 MA's), (67, 24416), (85, 24461), (116, 24581), (136, 24638), (162, 24746),

Gene: Itos_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Itos_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: JKSyngboy_42 Start: 39483, Stop: 39929, Start Num: 61
Candidate Starts for JKSyngboy_42:

(11, 39273), (12, 39276), (14, 39291), (27, 39372), (30, 39381), (36, 39396), (Start: 61 @39483 has 48 MA's), (75, 39525), (82, 39540), (87, 39552), (128, 39705), (169, 39864), (179, 39912),

Gene: Jaan_34 Start: 24787, Stop: 25221, Start Num: 60
Candidate Starts for Jaan_34:
(Start: 60 @24787 has 332 MA's), (Start: 61 @24790 has 48 MA's), (85, 24850), (99, 24898), (116, 24970), (136, 25027), (173, 25195), (176, 25210),

Gene: Jabberwocky_43 Start: 40642, Stop: 41091, Start Num: 61
Candidate Starts for Jabberwocky_43:
(30, 40543), (Start: 61 @40642 has 48 MA's), (75, 40684), (82, 40699), (87, 40711), (101, 40762), (128, 40864), (160, 40987), (169, 41023), (179, 41074),

Gene: Jaykayelowell_30 Start: 22514, Stop: 22942, Start Num: 60
Candidate Starts for Jaykayelowell_30:
(Start: 60 @22514 has 332 MA's), (85, 22574), (92, 22595), (102, 22634), (118, 22697),

Gene: JeTaime_38 Start: 33513, Stop: 33929, Start Num: 60
Candidate Starts for JeTaime_38:
(Start: 45 @33468 has 1 MA's), (Start: 60 @33513 has 332 MA's), (83, 33567), (89, 33582), (95, 33600), (102, 33630), (133, 33744), (146, 33771), (149, 33786),

Gene: JetBlade_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for JetBlade_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: Jobypre_30 Start: 28374, Stop: 28793, Start Num: 54
Candidate Starts for Jobypre_30:
(Start: 54 @28374 has 21 MA's), (Start: 63 @28398 has 6 MA's), (80, 28440), (121, 28569), (129, 28590), (149, 28644), (150, 28647), (170, 28749),

Gene: JoeDirt_29 Start: 27262, Stop: 27681, Start Num: 53
Candidate Starts for JoeDirt_29:
(Start: 53 @27262 has 19 MA's), (Start: 60 @27277 has 332 MA's), (82, 27331), (89, 27346), (104, 27403), (120, 27451), (121, 27457), (129, 27478), (149, 27532), (170, 27637), (175, 27664),

Gene: JoongJeon_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for JoongJeon_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Jubie_30 Start: 28375, Stop: 28794, Start Num: 54
Candidate Starts for Jubie_30:
(Start: 54 @28375 has 21 MA's), (Start: 63 @28399 has 6 MA's), (80, 28441), (121, 28570), (129, 28591), (149, 28645), (150, 28648), (170, 28750),

Gene: Junimo_29 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Junimo_29:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: JustASigh_29 Start: 27967, Stop: 28506, Start Num: 41
Candidate Starts for JustASigh_29:
(23, 27910), (Start: 41 @27967 has 1 MA's), (106, 28183), (112, 28216), (119, 28225), (122, 28240), (126, 28249), (146, 28309), (157, 28369), (165, 28399),

Gene: KFPoly_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for KFPoly_30:
(Start: 60 @22515 has 332 MA's), (75, 22554), (85, 22575), (92, 22596), (101, 22632), (102, 22635), (152, 22833),

Gene: Kahlid_31 Start: 28014, Stop: 28436, Start Num: 52
Candidate Starts for Kahlid_31:
(Start: 52 @28014 has 32 MA's), (Start: 63 @28041 has 6 MA's), (82, 28086), (89, 28101), (91, 28107), (104, 28158), (121, 28212), (149, 28287), (150, 28290), (161, 28347), (170, 28392), (175, 28419),

Gene: Kamashten_42 Start: 38577, Stop: 39026, Start Num: 61
Candidate Starts for Kamashten_42:
(30, 38478), (Start: 61 @38577 has 48 MA's), (75, 38619), (82, 38634), (87, 38646), (128, 38799), (160, 38922), (169, 38958), (179, 39009),

Gene: Kampy_30 Start: 22516, Stop: 22944, Start Num: 60
Candidate Starts for Kampy_30:
(Start: 60 @22516 has 332 MA's), (85, 22576), (92, 22597), (102, 22636), (118, 22699),

Gene: Kanye_38 Start: 33698, Stop: 34114, Start Num: 60
Candidate Starts for Kanye_38:
(Start: 45 @33653 has 1 MA's), (Start: 60 @33698 has 332 MA's), (83, 33752), (89, 33767), (95, 33785), (102, 33815), (133, 33929), (146, 33956), (149, 33971),

Gene: Katalie136_30 Start: 22533, Stop: 22964, Start Num: 60
Candidate Starts for Katalie136_30:
(Start: 60 @22533 has 332 MA's), (75, 22572), (85, 22593), (95, 22623), (118, 22716), (148, 22806), (155, 22860), (173, 22938),

Gene: Keelan_61 Start: 35707, Stop: 36102, Start Num: 63
Candidate Starts for Keelan_61:
(Start: 63 @35707 has 6 MA's), (100, 35815), (125, 35920), (139, 35956), (152, 36025), (156, 36037),

Gene: KekoraPapaka_29 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for KekoraPapaka_29:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Kewpiedoll_44 Start: 39518, Stop: 39967, Start Num: 61
Candidate Starts for Kewpiedoll_44:
(30, 39419), (Start: 61 @39518 has 48 MA's), (75, 39560), (82, 39575), (87, 39587), (128, 39740), (160, 39863), (169, 39899), (179, 39950),

Gene: KiSi_33 Start: 27241, Stop: 27735, Start Num: 60
Candidate Starts for KiSi_33:
(38, 27169), (Start: 60 @27241 has 332 MA's), (85, 27304), (89, 27316), (102, 27364), (109, 27424), (127, 27493), (137, 27526), (138, 27541), (146, 27571), (163, 27658),

Gene: Kimchi_38 Start: 32705, Stop: 33121, Start Num: 60
Candidate Starts for Kimchi_38:
(Start: 45 @32660 has 1 MA's), (Start: 60 @32705 has 332 MA's), (83, 32759), (89, 32774), (95, 32792), (102, 32822), (133, 32936), (146, 32963), (149, 32978),

Gene: Kingmustik0402_30 Start: 22510, Stop: 22938, Start Num: 60
Candidate Starts for Kingmustik0402_30:
(Start: 60 @22510 has 332 MA's), (85, 22570), (92, 22591), (102, 22630), (118, 22693), (152, 22828),

Gene: Kingsolomon_30 Start: 28374, Stop: 28793, Start Num: 54
Candidate Starts for Kingsolomon_30:
(Start: 54 @28374 has 21 MA's), (Start: 63 @28398 has 6 MA's), (80, 28440), (121, 28569), (129, 28590), (149, 28644), (150, 28647), (170, 28749),

Gene: KirDoubleO7_28 Start: 28357, Stop: 28776, Start Num: 54
Candidate Starts for KirDoubleO7_28:
(Start: 54 @28357 has 21 MA's), (Start: 63 @28381 has 6 MA's), (80, 28423), (104, 28498), (121, 28552), (133, 28585), (149, 28627), (150, 28630), (158, 28678), (170, 28732),

Gene: KittenMittens_30 Start: 20964, Stop: 21392, Start Num: 60
Candidate Starts for KittenMittens_30:
(Start: 60 @20964 has 332 MA's), (75, 21003), (78, 21009), (87, 21030), (95, 21054), (118, 21147), (174, 21372),

Gene: Koan_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Koan_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Konstantine_42 Start: 34540, Stop: 35055, Start Num: 46
Candidate Starts for Konstantine_42:
(Start: 46 @34540 has 11 MA's), (68, 34612), (69, 34615), (72, 34627), (123, 34813), (150, 34900), (165, 34972), (168, 34990), (170, 35002),

Gene: Koreni_29 Start: 22164, Stop: 22592, Start Num: 60
Candidate Starts for Koreni_29:
(Start: 60 @22164 has 332 MA's), (85, 22224), (92, 22245), (102, 22284), (118, 22347), (152, 22482),

Gene: Kostya_37 Start: 32713, Stop: 33129, Start Num: 60
Candidate Starts for Kostya_37:
(Start: 45 @32668 has 1 MA's), (Start: 60 @32713 has 332 MA's), (81, 32764), (86, 32773), (89, 32782), (95, 32800), (102, 32830), (133, 32944), (146, 32971), (149, 32986),

Gene: Kratark_30 Start: 22510, Stop: 22938, Start Num: 60
Candidate Starts for Kratark_30:
(Start: 60 @22510 has 332 MA's), (75, 22549), (85, 22570), (92, 22591), (101, 22627), (102, 22630), (152, 22828),

Gene: Kremtemulon_30 Start: 22566, Stop: 22994, Start Num: 60
Candidate Starts for Kremtemulon_30:
(Start: 60 @22566 has 332 MA's), (85, 22626), (92, 22647), (102, 22686), (118, 22749), (152, 22884), (166, 22932),

Gene: Kristoff_32 Start: 23028, Stop: 23459, Start Num: 60
Candidate Starts for Kristoff_32:
(37, 22950), (44, 22971), (Start: 60 @23028 has 332 MA's), (75, 23067), (116, 23208), (118, 23211), (143, 23283), (154, 23352), (163, 23376),

Gene: Kroos_45 Start: 39624, Stop: 40070, Start Num: 61

Candidate Starts for Kroos_45:
(7, 39366), (17, 39447), (30, 39522), (36, 39537), (Start: 61 @39624 has 48 MA's), (75, 39666), (82, 39681), (87, 39693), (128, 39846), (169, 40005), (179, 40053),

Gene: Kropertea_29 Start: 27072, Stop: 27491, Start Num: 55
Candidate Starts for Kropertea_29:
(Start: 55 @27072 has 6 MA's), (Start: 62 @27087 has 20 MA's), (65, 27096), (75, 27123), (99, 27192), (121, 27267), (133, 27300), (138, 27309), (149, 27342), (158, 27393), (170, 27447), (175, 27474),

Gene: Krypton555_30 Start: 28272, Stop: 28691, Start Num: 54
Candidate Starts for Krypton555_30:
(Start: 54 @28272 has 21 MA's), (Start: 63 @28296 has 6 MA's), (80, 28338), (121, 28467), (125, 28482), (149, 28542), (150, 28545), (158, 28593), (170, 28647),

Gene: Kwobi_46 Start: 39610, Stop: 40056, Start Num: 61
Candidate Starts for Kwobi_46:
(7, 39352), (12, 39403), (30, 39508), (36, 39523), (Start: 61 @39610 has 48 MA's), (75, 39652), (82, 39667), (87, 39679), (128, 39832), (169, 39991), (179, 40039),

Gene: Kyee_30 Start: 22516, Stop: 22944, Start Num: 60
Candidate Starts for Kyee_30:
(Start: 60 @22516 has 332 MA's), (75, 22555), (85, 22576), (92, 22597), (101, 22633), (102, 22636), (152, 22834),

Gene: LHTSCC_31 Start: 22832, Stop: 23260, Start Num: 60
Candidate Starts for LHTSCC_31:
(Start: 60 @22832 has 332 MA's), (75, 22871), (85, 22892), (92, 22913), (102, 22952), (118, 23015), (152, 23150), (154, 23156),

Gene: Landor_32 Start: 24439, Stop: 24873, Start Num: 60
Candidate Starts for Landor_32:
(Start: 60 @24439 has 332 MA's), (Start: 61 @24442 has 48 MA's), (85, 24502), (116, 24622), (136, 24679), (173, 24847), (176, 24862),

Gene: LappelDuVide_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for LappelDuVide_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (140, 22761), (152, 22833),

Gene: LeBron_29 Start: 27306, Stop: 27725, Start Num: 53
Candidate Starts for LeBron_29:
(Start: 53 @27306 has 19 MA's), (Start: 60 @27321 has 332 MA's), (82, 27375), (89, 27390), (104, 27447), (120, 27495), (121, 27501), (129, 27522), (149, 27576), (170, 27681), (175, 27708),

Gene: LeMond_33 Start: 27312, Stop: 27806, Start Num: 60
Candidate Starts for LeMond_33:
(38, 27240), (Start: 60 @27312 has 332 MA's), (85, 27375), (89, 27387), (102, 27435), (109, 27495), (127, 27564), (137, 27597), (138, 27612), (146, 27642), (163, 27729),

Gene: Lemur_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Lemur_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: Lennon_44 Start: 40321, Stop: 40770, Start Num: 61
Candidate Starts for Lennon_44:
(30, 40225), (Start: 61 @40321 has 48 MA's), (75, 40363), (82, 40378), (87, 40390), (101, 40441), (128, 40543), (160, 40666), (169, 40702), (179, 40753),

Gene: LeoAvram_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for LeoAvram_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698),

Gene: Lewan_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Lewan_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: LilDestine_31 Start: 28008, Stop: 28430, Start Num: 52
Candidate Starts for LilDestine_31:
(Start: 52 @28008 has 32 MA's), (Start: 63 @28035 has 6 MA's), (82, 28080), (89, 28095), (91, 28101), (104, 28152), (121, 28206), (149, 28281), (150, 28284), (161, 28341), (170, 28386), (175, 28413),

Gene: LilHam_42 Start: 38211, Stop: 38657, Start Num: 61
Candidate Starts for LilHam_42:
(7, 37953), (12, 38004), (30, 38109), (36, 38124), (Start: 61 @38211 has 48 MA's), (75, 38253), (82, 38268), (87, 38280), (128, 38433), (169, 38592), (179, 38640),

Gene: Lilac_38 Start: 32209, Stop: 32625, Start Num: 60
Candidate Starts for Lilac_38:
(Start: 45 @32164 has 1 MA's), (Start: 60 @32209 has 332 MA's), (83, 32263), (89, 32278), (95, 32296), (102, 32326), (133, 32440), (146, 32467), (149, 32482),

Gene: Lilbeanie_43 Start: 34683, Stop: 35099, Start Num: 66
Candidate Starts for Lilbeanie_43:
(39, 34599), (56, 34656), (Start: 66 @34683 has 1 MA's), (97, 34767), (117, 34878), (147, 34962), (164, 35040), (171, 35082),

Gene: Lilizi_38 Start: 32417, Stop: 32833, Start Num: 60
Candidate Starts for Lilizi_38:
(Start: 45 @32372 has 1 MA's), (Start: 60 @32417 has 332 MA's), (83, 32471), (89, 32486), (95, 32504), (102, 32534), (133, 32648), (146, 32675), (149, 32690),

Gene: Lilpickle_35 Start: 31919, Stop: 32335, Start Num: 60
Candidate Starts for Lilpickle_35:
(Start: 45 @31874 has 1 MA's), (Start: 60 @31919 has 332 MA's), (83, 31973), (89, 31988), (102, 32036), (133, 32150), (146, 32177), (149, 32192),

Gene: LittleB_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for LittleB_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: LittleGuy_30 Start: 22461, Stop: 22889, Start Num: 60
Candidate Starts for LittleGuy_30:
(Start: 60 @22461 has 332 MA's), (85, 22521), (92, 22542), (102, 22581), (118, 22644),

Gene: Livelaughbron_37 Start: 32826, Stop: 33242, Start Num: 60

Candidate Starts for Livelaughbron_37:
(Start: 45 @32781 has 1 MA's), (Start: 60 @32826 has 332 MA's), (83, 32880), (89, 32895), (95, 32913), (102, 32943), (133, 33057), (146, 33084), (149, 33099),

Gene: LiyuLake_30 Start: 28327, Stop: 28746, Start Num: 54
Candidate Starts for LiyuLake_30:
(Start: 54 @28327 has 21 MA's), (Start: 63 @28351 has 6 MA's), (80, 28393), (104, 28468), (121, 28522), (133, 28555), (149, 28597), (150, 28600), (158, 28648), (170, 28702),

Gene: Loadrie_31 Start: 28041, Stop: 28463, Start Num: 52
Candidate Starts for Loadrie_31:
(Start: 52 @28041 has 32 MA's), (Start: 63 @28068 has 6 MA's), (82, 28113), (89, 28128), (91, 28134), (104, 28185), (121, 28239), (149, 28314), (150, 28317), (161, 28374), (170, 28419), (175, 28446),

Gene: LochMonster_30 Start: 22490, Stop: 22918, Start Num: 60
Candidate Starts for LochMonster_30:
(Start: 60 @22490 has 332 MA's), (75, 22529), (85, 22550), (92, 22571), (101, 22607), (102, 22610), (152, 22808),

Gene: Lolly9_30 Start: 28138, Stop: 28557, Start Num: 54
Candidate Starts for Lolly9_30:
(Start: 54 @28138 has 21 MA's), (Start: 63 @28162 has 6 MA's), (82, 28207), (121, 28333), (125, 28348), (129, 28354), (149, 28408), (150, 28411), (170, 28513),

Gene: Lorenzo_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Lorenzo_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Loser_34 Start: 24594, Stop: 25022, Start Num: 60
Candidate Starts for Loser_34:
(Start: 60 @24594 has 332 MA's), (88, 24663), (113, 24768), (136, 24831), (154, 24918),

Gene: Love_48 Start: 40769, Stop: 41218, Start Num: 61
Candidate Starts for Love_48:
(30, 40670), (Start: 61 @40769 has 48 MA's), (75, 40811), (82, 40826), (87, 40838), (128, 40991), (160, 41114), (169, 41150), (179, 41201),

Gene: Lumos_30 Start: 28371, Stop: 28790, Start Num: 54
Candidate Starts for Lumos_30:
(Start: 54 @28371 has 21 MA's), (Start: 63 @28395 has 6 MA's), (80, 28437), (121, 28566), (129, 28587), (149, 28641), (150, 28644), (170, 28746),

Gene: Lunsford_31 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Lunsford_31:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: Lynnae_31 Start: 27997, Stop: 28419, Start Num: 52
Candidate Starts for Lynnae_31:
(Start: 52 @27997 has 32 MA's), (Start: 63 @28024 has 6 MA's), (82, 28069), (89, 28084), (91, 28090), (104, 28141), (121, 28195), (149, 28270), (150, 28273), (161, 28330), (170, 28375), (175, 28402),

Gene: MAckerman_29 Start: 27280, Stop: 27699, Start Num: 53
Candidate Starts for MAckerman_29:

(Start: 53 @27280 has 19 MA's), (Start: 60 @27295 has 332 MA's), (82, 27349), (89, 27364), (104, 27421), (120, 27469), (121, 27475), (129, 27496), (149, 27550), (170, 27655), (175, 27682),

Gene: MISSy_35 Start: 32225, Stop: 32641, Start Num: 60
Candidate Starts for MISSy_35:
(Start: 45 @32180 has 1 MA's), (Start: 60 @32225 has 332 MA's), (83, 32279), (89, 32294), (95, 32312), (102, 32342), (133, 32456), (146, 32483), (149, 32498),

Gene: MPhalcon_35 Start: 32218, Stop: 32634, Start Num: 60
Candidate Starts for MPhalcon_35:
(Start: 45 @32173 has 1 MA's), (Start: 60 @32218 has 332 MA's), (83, 32272), (89, 32287), (95, 32305), (102, 32335), (133, 32449), (146, 32476), (149, 32491),

Gene: MadamMonkfish_36 Start: 32130, Stop: 32546, Start Num: 60
Candidate Starts for MadamMonkfish_36:
(Start: 45 @32085 has 1 MA's), (Start: 60 @32130 has 332 MA's), (83, 32184), (89, 32199), (95, 32217), (102, 32247), (133, 32361), (146, 32388), (149, 32403),

Gene: Madavieve_24 Start: 22179, Stop: 22592, Start Num: 62
Candidate Starts for Madavieve_24:
(2, 21909), (21, 22068), (42, 22158), (Start: 62 @22179 has 20 MA's), (90, 22254), (93, 22263), (104, 22308), (115, 22371), (157, 22518),

Gene: Madeline_24 Start: 22197, Stop: 22610, Start Num: 62
Candidate Starts for Madeline_24:
(2, 21927), (21, 22086), (42, 22176), (Start: 62 @22197 has 20 MA's), (90, 22272), (93, 22281), (104, 22326), (115, 22389), (157, 22536),

Gene: Manda_37 Start: 33197, Stop: 33613, Start Num: 60
Candidate Starts for Manda_37:
(Start: 45 @33152 has 1 MA's), (Start: 60 @33197 has 332 MA's), (83, 33251), (89, 33266), (95, 33284), (102, 33314), (133, 33428), (146, 33455), (149, 33470),

Gene: Marcoliusprime_32 Start: 26906, Stop: 27397, Start Num: 60
Candidate Starts for Marcoliusprime_32:
(Start: 60 @26906 has 332 MA's), (84, 26963), (90, 26981), (105, 27038), (134, 27173), (139, 27203), (146, 27230), (150, 27254), (160, 27308), (163, 27317),

Gene: MarkPhew_34 Start: 27210, Stop: 27707, Start Num: 60
Candidate Starts for MarkPhew_34:
(8, 26973), (20, 27057), (22, 27087), (30, 27114), (44, 27156), (49, 27171), (Start: 60 @27210 has 332 MA's), (85, 27273), (102, 27333), (109, 27393), (120, 27438), (127, 27462), (137, 27495), (138, 27510), (146, 27540),

Gene: Marshawn_35 Start: 27905, Stop: 28363, Start Num: 60
Candidate Starts for Marshawn_35:
(Start: 60 @27905 has 332 MA's), (67, 27926), (84, 27968), (88, 27980), (94, 27998), (110, 28097), (118, 28115), (130, 28148), (131, 28151), (154, 28259),

Gene: Marshmallow_36 Start: 32710, Stop: 33126, Start Num: 60
Candidate Starts for Marshmallow_36:
(Start: 45 @32665 has 1 MA's), (Start: 60 @32710 has 332 MA's), (83, 32764), (89, 32779), (102, 32827), (133, 32941), (146, 32968), (149, 32983),

Gene: Maverick_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Maverick_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Maxo_30 Start: 22516, Stop: 22944, Start Num: 60
Candidate Starts for Maxo_30:
(Start: 60 @22516 has 332 MA's), (85, 22576), (92, 22597), (102, 22636), (118, 22699),

Gene: Maxxinista_37 Start: 32179, Stop: 32595, Start Num: 60
Candidate Starts for Maxxinista_37:
(Start: 45 @32134 has 1 MA's), (Start: 60 @32179 has 332 MA's), (83, 32233), (89, 32248), (95, 32266), (102, 32296), (133, 32410), (146, 32437), (149, 32452),

Gene: Mayonnaise_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Mayonnaise_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Mazhar510_30 Start: 22519, Stop: 22947, Start Num: 60
Candidate Starts for Mazhar510_30:
(Start: 60 @22519 has 332 MA's), (85, 22579), (92, 22600), (102, 22639), (118, 22702), (152, 22837),

Gene: McCrothy_44 Start: 39928, Stop: 40377, Start Num: 61
Candidate Starts for McCrothy_44:
(27, 39820), (30, 39829), (Start: 61 @39928 has 48 MA's), (75, 39970), (82, 39985), (87, 39997), (101, 40048), (128, 40150), (160, 40273), (169, 40309), (179, 40360),

Gene: McKinley_46 Start: 40142, Stop: 40591, Start Num: 61
Candidate Starts for McKinley_46:
(30, 40043), (Start: 61 @40142 has 48 MA's), (75, 40184), (82, 40199), (87, 40211), (128, 40364), (160, 40487), (169, 40523), (179, 40574),

Gene: Medusa_30 Start: 22519, Stop: 22947, Start Num: 60
Candidate Starts for Medusa_30:
(Start: 60 @22519 has 332 MA's), (85, 22579), (92, 22600), (102, 22639), (118, 22702), (152, 22837),

Gene: MeeZee_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for MeeZee_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Megatron06_39 Start: 33872, Stop: 34387, Start Num: 46
Candidate Starts for Megatron06_39:
(Start: 46 @33872 has 11 MA's), (68, 33944), (69, 33947), (72, 33959), (108, 34088), (123, 34145), (150, 34232), (165, 34304), (168, 34322), (170, 34334),

Gene: Melvin_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Melvin_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Meyran_26 Start: 23021, Stop: 23446, Start Num: 62
Candidate Starts for Meyran_26:
(Start: 62 @23021 has 20 MA's), (75, 23060), (82, 23075), (93, 23105), (125, 23237), (145, 23297),

Gene: Miley16_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Miley16_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: Millski_29 Start: 22521, Stop: 22949, Start Num: 60
Candidate Starts for Millski_29:
(Start: 60 @22521 has 332 MA's), (85, 22581), (92, 22602), (102, 22641), (118, 22704), (152, 22839),

Gene: Milly_32 Start: 26879, Stop: 27370, Start Num: 60
Candidate Starts for Milly_32:
(Start: 60 @26879 has 332 MA's), (84, 26936), (90, 26954), (105, 27011), (134, 27146), (139, 27176), (146, 27203), (150, 27227), (160, 27281), (163, 27290),

Gene: Mindy_36 Start: 32490, Stop: 32906, Start Num: 60
Candidate Starts for Mindy_36:
(Start: 45 @32445 has 1 MA's), (Start: 60 @32490 has 332 MA's), (83, 32544), (89, 32559), (102, 32607), (133, 32721), (146, 32748), (149, 32763),

Gene: MiniLon_30 Start: 28138, Stop: 28557, Start Num: 54
Candidate Starts for MiniLon_30:
(Start: 54 @28138 has 21 MA's), (Start: 63 @28162 has 6 MA's), (82, 28207), (121, 28333), (125, 28348), (129, 28354), (149, 28408), (150, 28411), (170, 28513),

Gene: MiniMac_30 Start: 28139, Stop: 28558, Start Num: 54
Candidate Starts for MiniMac_30:
(Start: 54 @28139 has 21 MA's), (Start: 63 @28163 has 6 MA's), (82, 28208), (121, 28334), (125, 28349), (129, 28355), (149, 28409), (150, 28412), (170, 28514),

Gene: Miniwave_36 Start: 32909, Stop: 33325, Start Num: 60
Candidate Starts for Miniwave_36:
(Start: 45 @32864 has 1 MA's), (Start: 60 @32909 has 332 MA's), (83, 32963), (89, 32978), (95, 32996), (102, 33026), (133, 33140), (146, 33167), (149, 33182),

Gene: Miramae_30 Start: 22464, Stop: 22889, Start Num: 60
Candidate Starts for Miramae_30:
(33, 22371), (36, 22380), (37, 22386), (Start: 60 @22464 has 332 MA's), (70, 22488), (78, 22509), (91, 22542), (101, 22581), (129, 22674), (136, 22698), (143, 22716), (159, 22800),

Gene: Misfit_36 Start: 32799, Stop: 33215, Start Num: 60
Candidate Starts for Misfit_36:
(Start: 45 @32754 has 1 MA's), (Start: 60 @32799 has 332 MA's), (83, 32853), (89, 32868), (95, 32886), (102, 32916), (133, 33030), (146, 33057), (149, 33072),

Gene: MkaliMitinis3_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for MkaliMitinis3_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: Moldemort_37 Start: 32454, Stop: 32870, Start Num: 60
Candidate Starts for Moldemort_37:
(Start: 45 @32409 has 1 MA's), (Start: 60 @32454 has 332 MA's), (83, 32508), (89, 32523), (95, 32541), (102, 32571), (133, 32685), (146, 32712), (149, 32727),

Gene: Molivier_31 Start: 28006, Stop: 28428, Start Num: 52
Candidate Starts for Molivier_31:
(Start: 52 @28006 has 32 MA's), (Start: 63 @28033 has 6 MA's), (82, 28078), (89, 28093), (91, 28099), (104, 28150), (121, 28204), (149, 28279), (150, 28282), (161, 28339), (170, 28384), (175, 28411),

Gene: MollyToe_36 Start: 32883, Stop: 33299, Start Num: 60
Candidate Starts for MollyToe_36:
(Start: 45 @32838 has 1 MA's), (Start: 60 @32883 has 332 MA's), (83, 32937), (89, 32952), (95, 32970), (102, 33000), (133, 33114), (146, 33141), (149, 33156),

Gene: MoontowerMania_44 Start: 39977, Stop: 40426, Start Num: 61
Candidate Starts for MoontowerMania_44:
(30, 39878), (Start: 61 @39977 has 48 MA's), (75, 40019), (82, 40034), (87, 40046), (101, 40097), (128, 40199), (160, 40322), (169, 40358), (179, 40409),

Gene: Moostard_30 Start: 28377, Stop: 28796, Start Num: 54
Candidate Starts for Moostard_30:
(Start: 54 @28377 has 21 MA's), (Start: 63 @28401 has 6 MA's), (80, 28443), (121, 28572), (129, 28593), (149, 28647), (150, 28650), (170, 28752),

Gene: Morpher26_30 Start: 22533, Stop: 22964, Start Num: 60
Candidate Starts for Morpher26_30:
(Start: 60 @22533 has 332 MA's), (75, 22572), (85, 22593), (95, 22623), (118, 22716), (148, 22806), (155, 22860), (173, 22938),

Gene: Morrow_30 Start: 22521, Stop: 22949, Start Num: 60
Candidate Starts for Morrow_30:
(Start: 60 @22521 has 332 MA's), (85, 22581), (92, 22602), (102, 22641), (118, 22704),

Gene: Mosby_35 Start: 32216, Stop: 32632, Start Num: 60
Candidate Starts for Mosby_35:
(Start: 45 @32171 has 1 MA's), (Start: 60 @32216 has 332 MA's), (83, 32270), (89, 32285), (95, 32303), (102, 32333), (133, 32447), (146, 32474), (149, 32489),

Gene: MsGreen_30 Start: 28374, Stop: 28793, Start Num: 54
Candidate Starts for MsGreen_30:
(Start: 54 @28374 has 21 MA's), (Start: 63 @28398 has 6 MA's), (80, 28440), (121, 28569), (129, 28590), (149, 28644), (150, 28647), (170, 28749),

Gene: Mufasa_33 Start: 26987, Stop: 27478, Start Num: 60
Candidate Starts for Mufasa_33:
(Start: 60 @26987 has 332 MA's), (84, 27044), (90, 27062), (105, 27119), (134, 27254), (146, 27311), (160, 27389), (176, 27467),

Gene: Mundrea_30 Start: 22485, Stop: 22916, Start Num: 60
Candidate Starts for Mundrea_30:
(Start: 60 @22485 has 332 MA's), (75, 22524), (78, 22530), (123, 22683), (150, 22773),

Gene: Murica_35 Start: 32696, Stop: 33112, Start Num: 60
Candidate Starts for Murica_35:
(Start: 45 @32651 has 1 MA's), (Start: 60 @32696 has 332 MA's), (83, 32750), (89, 32765), (95, 32783), (102, 32813), (133, 32927), (146, 32954), (149, 32969),

Gene: Murphy_37 Start: 32691, Stop: 33107, Start Num: 60
Candidate Starts for Murphy_37:
(Start: 45 @32646 has 1 MA's), (Start: 60 @32691 has 332 MA's), (83, 32745), (89, 32760), (95, 32778), (102, 32808), (133, 32922), (146, 32949), (149, 32964),

Gene: Myrale_36 Start: 32575, Stop: 32991, Start Num: 60
Candidate Starts for Myrale_36:
(Start: 45 @32530 has 1 MA's), (Start: 60 @32575 has 332 MA's), (83, 32629), (89, 32644), (102, 32692), (133, 32806), (146, 32833), (149, 32848),

Gene: Nala_36 Start: 32730, Stop: 33146, Start Num: 60
Candidate Starts for Nala_36:
(Start: 45 @32685 has 1 MA's), (Start: 60 @32730 has 332 MA's), (83, 32784), (89, 32799), (95, 32817), (102, 32847), (133, 32961), (146, 32988), (149, 33003),

Gene: Nebs_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Nebs_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698),

Gene: NelitzaMV_36 Start: 32780, Stop: 33196, Start Num: 60
Candidate Starts for NelitzaMV_36:
(Start: 45 @32735 has 1 MA's), (Start: 60 @32780 has 332 MA's), (83, 32834), (89, 32849), (95, 32867), (102, 32897), (133, 33011), (146, 33038), (149, 33053),

Gene: Nemo27_30 Start: 22517, Stop: 22945, Start Num: 60
Candidate Starts for Nemo27_30:
(Start: 60 @22517 has 332 MA's), (85, 22577), (92, 22598), (102, 22637), (118, 22700), (152, 22835), (166, 22883),

Gene: Netyap_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Netyap_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: Nicholas_30 Start: 28374, Stop: 28793, Start Num: 54
Candidate Starts for Nicholas_30:
(Start: 54 @28374 has 21 MA's), (Start: 63 @28398 has 6 MA's), (80, 28440), (121, 28569), (129, 28590), (149, 28644), (150, 28647), (170, 28749),

Gene: Nicholasp3_31 Start: 28011, Stop: 28433, Start Num: 52
Candidate Starts for Nicholasp3_31:
(Start: 52 @28011 has 32 MA's), (Start: 63 @28038 has 6 MA's), (82, 28083), (89, 28098), (91, 28104), (104, 28155), (121, 28209), (149, 28284), (150, 28287), (161, 28344), (170, 28389), (175, 28416),

Gene: Nimrod_36 Start: 32954, Stop: 33370, Start Num: 60
Candidate Starts for Nimrod_36:
(Start: 45 @32909 has 1 MA's), (Start: 60 @32954 has 332 MA's), (83, 33008), (89, 33023), (95, 33041), (102, 33071), (133, 33185), (146, 33212), (149, 33227),

Gene: Nish23_38 Start: 33338, Stop: 33853, Start Num: 46
Candidate Starts for Nish23_38:

(Start: 46 @33338 has 11 MA's), (68, 33410), (69, 33413), (72, 33425), (108, 33554), (123, 33611), (150, 33698), (165, 33770), (168, 33788), (170, 33800),

Gene: NoSleep_37 Start: 32451, Stop: 32867, Start Num: 60
Candidate Starts for NoSleep_37:
(Start: 45 @32406 has 1 MA's), (Start: 60 @32451 has 332 MA's), (83, 32505), (89, 32520), (95, 32538), (102, 32568), (133, 32682), (146, 32709), (149, 32724),

Gene: Noelle_30 Start: 22590, Stop: 23024, Start Num: 60
Candidate Starts for Noelle_30:
(Start: 60 @22590 has 332 MA's), (65, 22602), (Start: 66 @22605 has 1 MA's), (75, 22629), (85, 22650), (118, 22773), (146, 22857), (154, 22914), (176, 23013),

Gene: NonchalantPear_36 Start: 32404, Stop: 32820, Start Num: 60
Candidate Starts for NonchalantPear_36:
(Start: 45 @32359 has 1 MA's), (Start: 60 @32404 has 332 MA's), (83, 32458), (89, 32473), (95, 32491), (102, 32521), (133, 32635), (146, 32662), (149, 32677),

Gene: Nordenberg_39 Start: 38962, Stop: 39411, Start Num: 61
Candidate Starts for Nordenberg_39:
(27, 38854), (30, 38863), (Start: 61 @38962 has 48 MA's), (75, 39004), (82, 39019), (87, 39031), (128, 39184), (160, 39307), (169, 39343), (179, 39394),

Gene: NorthStar_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for NorthStar_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Northrop_30 Start: 22514, Stop: 22942, Start Num: 60
Candidate Starts for Northrop_30:
(Start: 60 @22514 has 332 MA's), (85, 22574), (92, 22595), (102, 22634), (118, 22697), (152, 22832),

Gene: NotAPhaseMom_30 Start: 22522, Stop: 22950, Start Num: 60
Candidate Starts for NotAPhaseMom_30:
(Start: 60 @22522 has 332 MA's), (85, 22582), (92, 22603), (102, 22642), (118, 22705), (152, 22840),

Gene: Nyceirae_28 Start: 22758, Stop: 23174, Start Num: 62
Candidate Starts for Nyceirae_28:
(39, 22719), (42, 22731), (57, 22752), (Start: 62 @22758 has 20 MA's), (75, 22797), (80, 22809), (85, 22818), (93, 22842), (101, 22875), (115, 22950), (125, 22974),

Gene: Nymphadora_24 Start: 21899, Stop: 22312, Start Num: 62
Candidate Starts for Nymphadora_24:
(2, 21629), (15, 21755), (42, 21878), (Start: 62 @21899 has 20 MA's), (90, 21974), (93, 21983), (104, 22028), (115, 22091), (157, 22238),

Gene: Nyxis_30 Start: 22461, Stop: 22889, Start Num: 60
Candidate Starts for Nyxis_30:
(Start: 60 @22461 has 332 MA's), (85, 22521), (92, 22542), (102, 22581), (118, 22644),

Gene: OKCentral2016_31 Start: 22531, Stop: 22962, Start Num: 60
Candidate Starts for OKCentral2016_31:
(36, 22447), (Start: 60 @22531 has 332 MA's), (85, 22591), (87, 22597), (95, 22621), (143, 22786), (154, 22855),

Gene: OKaNui_31 Start: 22571, Stop: 22999, Start Num: 60
Candidate Starts for OKaNui_31:
(Start: 60 @22571 has 332 MA's), (85, 22631), (92, 22652), (102, 22691), (118, 22754), (152, 22889),

Gene: Oaker_37 Start: 33596, Stop: 34111, Start Num: 46
Candidate Starts for Oaker_37:
(Start: 46 @33596 has 11 MA's), (68, 33668), (69, 33671), (72, 33683), (108, 33812), (123, 33869), (150, 33956), (165, 34028), (168, 34046), (170, 34058),

Gene: Obama12_31 Start: 22834, Stop: 23262, Start Num: 60
Candidate Starts for Obama12_31:
(Start: 60 @22834 has 332 MA's), (75, 22873), (85, 22894), (92, 22915), (102, 22954), (118, 23017), (152, 23152), (154, 23158),

Gene: OhShagHennessy_29 Start: 27245, Stop: 27664, Start Num: 53
Candidate Starts for OhShagHennessy_29:
(Start: 53 @27245 has 19 MA's), (Start: 60 @27260 has 332 MA's), (82, 27314), (89, 27329), (104, 27386), (120, 27434), (121, 27440), (129, 27461), (149, 27515), (170, 27620), (175, 27647),

Gene: Ohfah_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Ohfah_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698),

Gene: Ohgeesy_24 Start: 21522, Stop: 21935, Start Num: 62
Candidate Starts for Ohgeesy_24:
(2, 21252), (21, 21411), (24, 21444), (42, 21501), (Start: 62 @21522 has 20 MA's), (90, 21597), (93, 21606), (104, 21651), (115, 21714), (157, 21861),

Gene: OrionPax_37 Start: 32457, Stop: 32873, Start Num: 60
Candidate Starts for OrionPax_37:
(Start: 45 @32412 has 1 MA's), (Start: 60 @32457 has 332 MA's), (83, 32511), (89, 32526), (95, 32544), (102, 32574), (133, 32688), (146, 32715), (149, 32730),

Gene: Oscar_33 Start: 27313, Stop: 27807, Start Num: 60
Candidate Starts for Oscar_33:
(38, 27241), (Start: 60 @27313 has 332 MA's), (85, 27376), (89, 27388), (102, 27436), (109, 27496), (127, 27565), (137, 27598), (138, 27613), (146, 27643), (163, 27730),

Gene: OverPar_31 Start: 28041, Stop: 28463, Start Num: 52
Candidate Starts for OverPar_31:
(Start: 52 @28041 has 32 MA's), (Start: 63 @28068 has 6 MA's), (82, 28113), (89, 28128), (91, 28134), (104, 28185), (121, 28239), (149, 28314), (150, 28317), (161, 28374), (170, 28419), (175, 28446),

Gene: PYPDinur_29 Start: 27169, Stop: 27588, Start Num: 55
Candidate Starts for PYPDinur_29:
(Start: 55 @27169 has 6 MA's), (65, 27193), (74, 27217), (75, 27220), (99, 27289), (121, 27364), (138, 27406), (149, 27439), (150, 27442), (151, 27445), (158, 27490), (170, 27544), (175, 27571),

Gene: PaddyBaddy_37 Start: 32467, Stop: 32883, Start Num: 60
Candidate Starts for PaddyBaddy_37:
(Start: 45 @32422 has 1 MA's), (Start: 60 @32467 has 332 MA's), (83, 32521), (89, 32536), (95, 32554), (102, 32584), (133, 32698), (146, 32725), (149, 32740),

Gene: Palestino_29 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Palestino_29:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Palpatine_36 Start: 32726, Stop: 33142, Start Num: 60
Candidate Starts for Palpatine_36:
(Start: 45 @32681 has 1 MA's), (Start: 60 @32726 has 332 MA's), (83, 32780), (89, 32795), (95, 32813), (102, 32843), (133, 32957), (146, 32984), (149, 32999),

Gene: Paperbeatsrock_38 Start: 33692, Stop: 34108, Start Num: 60
Candidate Starts for Paperbeatsrock_38:
(Start: 45 @33647 has 1 MA's), (Start: 60 @33692 has 332 MA's), (83, 33746), (89, 33761), (95, 33779), (102, 33809), (133, 33923), (146, 33950), (149, 33965),

Gene: Paries_47 Start: 40431, Stop: 40880, Start Num: 61
Candidate Starts for Paries_47:
(27, 40323), (30, 40332), (Start: 61 @40431 has 48 MA's), (75, 40473), (82, 40488), (87, 40500), (101, 40551), (128, 40653), (160, 40776), (169, 40812), (179, 40863),

Gene: Pat3_35 Start: 31438, Stop: 31854, Start Num: 60
Candidate Starts for Pat3_35:
(Start: 45 @31393 has 1 MA's), (Start: 60 @31438 has 332 MA's), (83, 31492), (89, 31507), (102, 31555), (133, 31669), (146, 31696), (149, 31711),

Gene: PeaceMeal1_30 Start: 20965, Stop: 21393, Start Num: 60
Candidate Starts for PeaceMeal1_30:
(Start: 60 @20965 has 332 MA's), (75, 21004), (78, 21010), (87, 21031), (95, 21055), (118, 21148), (174, 21373),

Gene: Peaches_30 Start: 22517, Stop: 22945, Start Num: 60
Candidate Starts for Peaches_30:
(Start: 60 @22517 has 332 MA's), (85, 22577), (92, 22598), (102, 22637), (118, 22700), (152, 22835),

Gene: Perplexer_30 Start: 22530, Stop: 22961, Start Num: 60
Candidate Starts for Perplexer_30:
(Start: 60 @22530 has 332 MA's), (75, 22569), (85, 22590), (95, 22620), (118, 22713), (148, 22803), (155, 22857), (173, 22935),

Gene: PeterPeter_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for PeterPeter_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: PetiteSangsue_30 Start: 22533, Stop: 22964, Start Num: 60
Candidate Starts for PetiteSangsue_30:
(Start: 60 @22533 has 332 MA's), (75, 22572), (85, 22593), (95, 22623), (118, 22716), (148, 22806), (155, 22860), (173, 22938),

Gene: Petra64142_38 Start: 33172, Stop: 33588, Start Num: 60
Candidate Starts for Petra64142_38:
(Start: 45 @33127 has 1 MA's), (Start: 60 @33172 has 332 MA's), (83, 33226), (89, 33241), (95, 33259), (102, 33289), (133, 33403), (146, 33430), (149, 33445),

Gene: Phacado_30 Start: 22517, Stop: 22945, Start Num: 60
Candidate Starts for Phacado_30:
(Start: 60 @22517 has 332 MA's), (85, 22577), (92, 22598), (102, 22637), (118, 22700), (152, 22835), (166, 22883),

Gene: Phaded_34 Start: 24786, Stop: 25220, Start Num: 60
Candidate Starts for Phaded_34:
(Start: 60 @24786 has 332 MA's), (Start: 61 @24789 has 48 MA's), (85, 24849), (99, 24897), (116, 24969), (136, 25026), (173, 25194), (176, 25209),

Gene: Phaja_36 Start: 32888, Stop: 33304, Start Num: 60
Candidate Starts for Phaja_36:
(Start: 45 @32843 has 1 MA's), (Start: 60 @32888 has 332 MA's), (83, 32942), (89, 32957), (102, 33005), (133, 33119), (146, 33146), (149, 33161),

Gene: Pharsalus_37 Start: 33492, Stop: 33908, Start Num: 60
Candidate Starts for Pharsalus_37:
(Start: 45 @33447 has 1 MA's), (Start: 60 @33492 has 332 MA's), (83, 33546), (89, 33561), (95, 33579), (102, 33609), (133, 33723), (146, 33750), (149, 33765),

Gene: PhatBacter_36 Start: 32740, Stop: 33156, Start Num: 60
Candidate Starts for PhatBacter_36:
(Start: 45 @32695 has 1 MA's), (Start: 60 @32740 has 332 MA's), (83, 32794), (89, 32809), (95, 32827), (102, 32857), (133, 32971), (146, 32998), (149, 33013),

Gene: Phaux_35 Start: 32738, Stop: 33154, Start Num: 60
Candidate Starts for Phaux_35:
(Start: 45 @32693 has 1 MA's), (Start: 60 @32738 has 332 MA's), (83, 32792), (89, 32807), (95, 32825), (102, 32855), (133, 32969), (146, 32996), (149, 33011),

Gene: Phelipe_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Phelipe_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Phighter1804_30 Start: 22493, Stop: 22921, Start Num: 60
Candidate Starts for Phighter1804_30:
(Start: 60 @22493 has 332 MA's), (75, 22532), (85, 22553), (92, 22574), (101, 22610), (102, 22613), (152, 22811),

Gene: Phontbonne_30 Start: 22462, Stop: 22890, Start Num: 60
Candidate Starts for Phontbonne_30:
(Start: 60 @22462 has 332 MA's), (85, 22522), (92, 22543), (102, 22582), (118, 22645),

Gene: Phreeze_37 Start: 33339, Stop: 33854, Start Num: 46
Candidate Starts for Phreeze_37:
(Start: 46 @33339 has 11 MA's), (68, 33411), (123, 33612), (150, 33699), (165, 33771), (168, 33789), (170, 33801),

Gene: Phrux_36 Start: 32453, Stop: 32869, Start Num: 60
Candidate Starts for Phrux_36:
(Start: 45 @32408 has 1 MA's), (Start: 60 @32453 has 332 MA's), (83, 32507), (89, 32522), (95, 32540), (102, 32570), (133, 32684), (146, 32711), (149, 32726),

Gene: Pine5_19 Start: 15075, Stop: 15512, Start Num: 60
Candidate Starts for Pine5_19:
(Start: 53 @15057 has 19 MA's), (Start: 60 @15075 has 332 MA's), (64, 15087), (101, 15195), (104, 15207), (116, 15282), (118, 15285), (121, 15294), (132, 15327), (141, 15357), (142, 15360), (165, 15462),

Gene: Pipcraft_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Pipcraft_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Policronamos_36 Start: 32738, Stop: 33154, Start Num: 60
Candidate Starts for Policronamos_36:
(Start: 45 @32693 has 1 MA's), (Start: 60 @32738 has 332 MA's), (83, 32792), (89, 32807), (95, 32825), (102, 32855), (133, 32969), (146, 32996), (149, 33011),

Gene: Polly_23 Start: 21339, Stop: 21752, Start Num: 62
Candidate Starts for Polly_23:
(4, 21093), (5, 21096), (10, 21168), (15, 21195), (27, 21270), (42, 21318), (Start: 62 @21339 has 20 MA's), (90, 21414), (93, 21423), (157, 21678), (164, 21696),

Gene: Polymorphads_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Polymorphads_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698),

Gene: Poochiewood_29 Start: 27280, Stop: 27699, Start Num: 53
Candidate Starts for Poochiewood_29:
(Start: 53 @27280 has 19 MA's), (Start: 60 @27295 has 332 MA's), (82, 27349), (89, 27364), (104, 27421), (120, 27469), (121, 27475), (129, 27496), (149, 27550), (170, 27655), (175, 27682),

Gene: Poompha_30 Start: 20963, Stop: 21391, Start Num: 60
Candidate Starts for Poompha_30:
(Start: 60 @20963 has 332 MA's), (75, 21002), (78, 21008), (87, 21029), (95, 21053), (118, 21146), (174, 21371),

Gene: Porky_36 Start: 32549, Stop: 32965, Start Num: 60
Candidate Starts for Porky_36:
(Start: 45 @32504 has 1 MA's), (Start: 60 @32549 has 332 MA's), (83, 32603), (89, 32618), (102, 32666), (133, 32780), (146, 32807), (149, 32822),

Gene: Predator_39 Start: 32530, Stop: 33021, Start Num: 46
Candidate Starts for Predator_39:
(Start: 46 @32530 has 11 MA's), (123, 32803), (141, 32854), (143, 32860), (168, 32980), (170, 32992),

Gene: Prudy_34 Start: 24685, Stop: 25119, Start Num: 60
Candidate Starts for Prudy_34:
(Start: 60 @24685 has 332 MA's), (Start: 61 @24688 has 48 MA's), (67, 24703), (84, 24745), (85, 24748), (163, 25036),

Gene: Ptowny_37 Start: 32094, Stop: 32510, Start Num: 60
Candidate Starts for Ptowny_37:
(Start: 45 @32049 has 1 MA's), (Start: 60 @32094 has 332 MA's), (83, 32148), (89, 32163), (95, 32181), (102, 32211), (133, 32325), (146, 32352), (149, 32367),

Gene: Puissant_38 Start: 33827, Stop: 34342, Start Num: 46
Candidate Starts for Puissant_38:
(Start: 46 @33827 has 11 MA's), (69, 33902), (71, 33911), (76, 33923), (108, 34043), (123, 34100), (150, 34187), (168, 34277), (170, 34289),

Gene: Pumbaa_30 Start: 22493, Stop: 22921, Start Num: 60
Candidate Starts for Pumbaa_30:
(Start: 60 @22493 has 332 MA's), (85, 22553), (92, 22574), (102, 22613), (118, 22676), (152, 22811), (154, 22817),

Gene: Pumpkin_38 Start: 32789, Stop: 33205, Start Num: 60
Candidate Starts for Pumpkin_38:
(Start: 45 @32744 has 1 MA's), (Start: 60 @32789 has 332 MA's), (83, 32843), (89, 32858), (95, 32876), (102, 32906), (133, 33020), (146, 33047), (149, 33062),

Gene: Quallification_37 Start: 32918, Stop: 33334, Start Num: 60
Candidate Starts for Quallification_37:
(Start: 45 @32873 has 1 MA's), (Start: 60 @32918 has 332 MA's), (83, 32972), (89, 32987), (95, 33005), (102, 33035), (133, 33149), (146, 33176), (149, 33191),

Gene: Quby_29 Start: 27063, Stop: 27482, Start Num: 55
Candidate Starts for Quby_29:
(Start: 55 @27063 has 6 MA's), (65, 27087), (74, 27111), (75, 27114), (99, 27183), (121, 27258), (138, 27300), (149, 27333), (150, 27336), (151, 27339), (158, 27384), (170, 27438), (175, 27465),

Gene: Rakim_37 Start: 32818, Stop: 33234, Start Num: 60
Candidate Starts for Rakim_37:
(Start: 45 @32773 has 1 MA's), (Start: 60 @32818 has 332 MA's), (83, 32872), (89, 32887), (95, 32905), (102, 32935), (133, 33049), (146, 33076), (149, 33091),

Gene: Rebeuca_32 Start: 23029, Stop: 23460, Start Num: 60
Candidate Starts for Rebeuca_32:
(37, 22951), (44, 22972), (Start: 60 @23029 has 332 MA's), (75, 23068), (116, 23209), (118, 23212), (143, 23284), (154, 23353), (163, 23377),

Gene: Red305_30 Start: 28374, Stop: 28793, Start Num: 54
Candidate Starts for Red305_30:
(Start: 54 @28374 has 21 MA's), (Start: 63 @28398 has 6 MA's), (80, 28440), (121, 28569), (129, 28590), (149, 28644), (150, 28647), (170, 28749),

Gene: RedRock_34 Start: 24752, Stop: 25180, Start Num: 60
Candidate Starts for RedRock_34:
(Start: 60 @24752 has 332 MA's), (88, 24821), (113, 24926), (136, 24989), (154, 25076), (163, 25097),

Gene: Refuge_34 Start: 25756, Stop: 26211, Start Num: 60
Candidate Starts for Refuge_34:
(Start: 60 @25756 has 332 MA's), (65, 25768), (67, 25774), (75, 25798), (84, 25816), (85, 25819), (116, 25939), (118, 25942), (136, 25996), (150, 26050), (178, 26188),

Gene: Relief_30 Start: 22516, Stop: 22944, Start Num: 60
Candidate Starts for Relief_30:
(Start: 60 @22516 has 332 MA's), (85, 22576), (92, 22597), (102, 22636), (118, 22699), (152, 22834),

Gene: RhynO_32 Start: 23010, Stop: 23441, Start Num: 60
Candidate Starts for RhynO_32:
(Start: 60 @23010 has 332 MA's), (85, 23070), (118, 23193), (154, 23334), (163, 23358),

Gene: Ribeye_45 Start: 40042, Stop: 40488, Start Num: 61
Candidate Starts for Ribeye_45:
(7, 39784), (12, 39835), (30, 39940), (36, 39955), (Start: 61 @40042 has 48 MA's), (75, 40084), (82, 40099), (87, 40111), (128, 40264), (169, 40423), (179, 40471),

Gene: Rimmer_35 Start: 32278, Stop: 32694, Start Num: 60
Candidate Starts for Rimmer_35:
(Start: 45 @32233 has 1 MA's), (Start: 60 @32278 has 332 MA's), (83, 32332), (89, 32347), (95, 32365), (102, 32395), (133, 32509), (146, 32536), (149, 32551),

Gene: RiverMonster_36 Start: 32467, Stop: 32883, Start Num: 60
Candidate Starts for RiverMonster_36:
(Start: 45 @32422 has 1 MA's), (Start: 60 @32467 has 332 MA's), (83, 32521), (89, 32536), (95, 32554), (102, 32584), (133, 32698), (146, 32725), (149, 32740),

Gene: RockieBear_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for RockieBear_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Rocksand_30 Start: 22514, Stop: 22942, Start Num: 60
Candidate Starts for Rocksand_30:
(Start: 60 @22514 has 332 MA's), (85, 22574), (92, 22595), (102, 22634), (118, 22697), (152, 22832),

Gene: Rofo_45 Start: 39757, Stop: 40206, Start Num: 61
Candidate Starts for Rofo_45:
(27, 39649), (30, 39658), (Start: 61 @39757 has 48 MA's), (75, 39799), (82, 39814), (87, 39826), (128, 39979), (160, 40102), (169, 40138), (179, 40189),

Gene: Romney_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Romney_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Ronaldo_66 Start: 36367, Stop: 36756, Start Num: 63
Candidate Starts for Ronaldo_66:
(Start: 63 @36367 has 6 MA's), (75, 36403), (100, 36475), (125, 36580), (139, 36616), (150, 36658), (154, 36691),

Gene: Roosevelt_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Roosevelt_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Rosa24_29 Start: 22493, Stop: 22921, Start Num: 60
Candidate Starts for Rosa24_29:
(Start: 60 @22493 has 332 MA's), (75, 22532), (85, 22553), (92, 22574), (101, 22610), (102, 22613), (152, 22811),

Gene: Rose5_29 Start: 27280, Stop: 27699, Start Num: 53
Candidate Starts for Rose5_29:

(Start: 53 @27280 has 19 MA's), (Start: 60 @27295 has 332 MA's), (82, 27349), (89, 27364), (104, 27421), (120, 27469), (121, 27475), (129, 27496), (149, 27550), (170, 27655), (175, 27682),

Gene: Rossetti_31 Start: 28281, Stop: 28703, Start Num: 52
Candidate Starts for Rossetti_31:
(Start: 52 @28281 has 32 MA's), (Start: 63 @28308 has 6 MA's), (75, 28338), (82, 28353), (89, 28368), (91, 28374), (104, 28425), (121, 28479), (149, 28554), (150, 28557), (161, 28614), (170, 28659), (175, 28686),

Gene: Rowdy_35 Start: 22921, Stop: 23352, Start Num: 60
Candidate Starts for Rowdy_35:
(Start: 60 @22921 has 332 MA's), (85, 22981), (118, 23104), (154, 23245), (163, 23269),

Gene: Ruin_30 Start: 22514, Stop: 22942, Start Num: 60
Candidate Starts for Ruin_30:
(Start: 60 @22514 has 332 MA's), (85, 22574), (92, 22595), (102, 22634), (118, 22697), (152, 22832), (166, 22880),

Gene: Rumpelstiltskin_31 Start: 28277, Stop: 28699, Start Num: 52
Candidate Starts for Rumpelstiltskin_31:
(Start: 52 @28277 has 32 MA's), (Start: 63 @28304 has 6 MA's), (82, 28349), (89, 28364), (91, 28370), (104, 28421), (121, 28475), (149, 28550), (150, 28553), (161, 28610), (170, 28655), (175, 28682),

Gene: Sabertooth_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Sabertooth_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: Saints25_37 Start: 32370, Stop: 32786, Start Num: 60
Candidate Starts for Saints25_37:
(Start: 45 @32325 has 1 MA's), (Start: 60 @32370 has 332 MA's), (83, 32424), (89, 32439), (95, 32457), (102, 32487), (133, 32601), (146, 32628), (149, 32643),

Gene: Samty_30 Start: 28377, Stop: 28796, Start Num: 54
Candidate Starts for Samty_30:
(Start: 54 @28377 has 21 MA's), (Start: 63 @28401 has 6 MA's), (80, 28443), (121, 28572), (129, 28593), (149, 28647), (150, 28650), (170, 28752),

Gene: Sanjuju_43 Start: 40371, Stop: 40820, Start Num: 61
Candidate Starts for Sanjuju_43:
(27, 40263), (30, 40272), (Start: 61 @40371 has 48 MA's), (75, 40413), (82, 40428), (87, 40440), (128, 40593), (160, 40716), (169, 40752), (179, 40803),

Gene: Sapo_22 Start: 19503, Stop: 19937, Start Num: 58
Candidate Starts for Sapo_22:
(Start: 58 @19503 has 6 MA's), (82, 19560), (121, 19713), (167, 19872),

Gene: Saronaya_44 Start: 38884, Stop: 39330, Start Num: 61
Candidate Starts for Saronaya_44:
(12, 38677), (30, 38782), (36, 38797), (Start: 61 @38884 has 48 MA's), (75, 38926), (82, 38941), (87, 38953), (128, 39106), (169, 39265), (179, 39313),

Gene: Sarshaun_31 Start: 28042, Stop: 28464, Start Num: 52
Candidate Starts for Sarshaun_31:

(Start: 52 @28042 has 32 MA's), (Start: 63 @28069 has 6 MA's), (82, 28114), (89, 28129), (91, 28135), (104, 28186), (121, 28240), (149, 28315), (150, 28318), (161, 28375), (170, 28420), (175, 28447),

Gene: Sassay_35 Start: 32216, Stop: 32632, Start Num: 60
Candidate Starts for Sassay_35:
(Start: 45 @32171 has 1 MA's), (Start: 60 @32216 has 332 MA's), (83, 32270), (89, 32285), (95, 32303), (102, 32333), (133, 32447), (146, 32474), (149, 32489),

Gene: Sbash_29 Start: 26224, Stop: 26712, Start Num: 58
Candidate Starts for Sbash_29:
(25, 26113), (29, 26125), (32, 26134), (43, 26170), (48, 26185), (Start: 58 @26224 has 6 MA's), (76, 26275), (79, 26281), (85, 26293), (91, 26311), (99, 26341), (102, 26353), (107, 26389), (118, 26440), (134, 26488), (141, 26509), (144, 26521), (145, 26524), (180, 26698),

Gene: Scamp_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Scamp_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Scarlett_33 Start: 27314, Stop: 27808, Start Num: 60
Candidate Starts for Scarlett_33:
(38, 27242), (Start: 60 @27314 has 332 MA's), (85, 27377), (89, 27389), (102, 27437), (109, 27497), (127, 27566), (137, 27599), (138, 27614), (146, 27644), (163, 27731),

Gene: SchottB_43 Start: 39884, Stop: 40330, Start Num: 61
Candidate Starts for SchottB_43:
(7, 39626), (12, 39677), (30, 39782), (36, 39797), (Start: 61 @39884 has 48 MA's), (75, 39926), (82, 39941), (87, 39953), (128, 40106), (169, 40265), (179, 40313),

Gene: SenorClean_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for SenorClean_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Severus_30 Start: 20963, Stop: 21391, Start Num: 60
Candidate Starts for Severus_30:
(Start: 60 @20963 has 332 MA's), (75, 21002), (87, 21029), (95, 21053), (118, 21146), (174, 21371),

Gene: Shaka_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Shaka_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836), (154, 22842),

Gene: ShamWow_36 Start: 32712, Stop: 33128, Start Num: 60
Candidate Starts for ShamWow_36:
(Start: 45 @32667 has 1 MA's), (Start: 60 @32712 has 332 MA's), (83, 32766), (89, 32781), (95, 32799), (102, 32829), (133, 32943), (146, 32970), (149, 32985),

Gene: Shapes_35 Start: 22921, Stop: 23352, Start Num: 60
Candidate Starts for Shapes_35:
(Start: 60 @22921 has 332 MA's), (85, 22981), (118, 23104), (154, 23245), (163, 23269),

Gene: SheldonCooper_31 Start: 22833, Stop: 23261, Start Num: 60
Candidate Starts for SheldonCooper_31:

(Start: 60 @22833 has 332 MA's), (75, 22872), (85, 22893), (92, 22914), (102, 22953), (118, 23016), (152, 23151), (154, 23157),

Gene: Sheng711_29 Start: 27169, Stop: 27588, Start Num: 55
Candidate Starts for Sheng711_29:
(Start: 55 @27169 has 6 MA's), (65, 27193), (74, 27217), (75, 27220), (99, 27289), (121, 27364), (138, 27406), (149, 27439), (150, 27442), (151, 27445), (158, 27490), (170, 27544), (175, 27571),

Gene: ShereKhan_38 Start: 33695, Stop: 34111, Start Num: 60
Candidate Starts for ShereKhan_38:
(Start: 45 @33650 has 1 MA's), (Start: 60 @33695 has 332 MA's), (83, 33749), (89, 33764), (102, 33812), (133, 33926), (146, 33953), (149, 33968),

Gene: Shivanishola_44 Start: 38638, Stop: 39087, Start Num: 61
Candidate Starts for Shivanishola_44:
(30, 38539), (Start: 61 @38638 has 48 MA's), (75, 38680), (82, 38695), (87, 38707), (101, 38758), (128, 38860), (160, 38983), (169, 39019), (179, 39070),

Gene: Shygu2_30 Start: 22524, Stop: 22955, Start Num: 60
Candidate Starts for Shygu2_30:
(Start: 60 @22524 has 332 MA's), (75, 22563), (85, 22584), (95, 22614), (118, 22707), (148, 22797), (155, 22851), (173, 22929),

Gene: Silverleaf_29 Start: 27280, Stop: 27699, Start Num: 53
Candidate Starts for Silverleaf_29:
(Start: 53 @27280 has 19 MA's), (Start: 60 @27295 has 332 MA's), (82, 27349), (89, 27364), (104, 27421), (120, 27469), (121, 27475), (129, 27496), (149, 27550), (170, 27655), (175, 27682),

Gene: Simpliphy_37 Start: 32457, Stop: 32873, Start Num: 60
Candidate Starts for Simpliphy_37:
(Start: 45 @32412 has 1 MA's), (Start: 60 @32457 has 332 MA's), (83, 32511), (89, 32526), (95, 32544), (102, 32574), (133, 32688), (146, 32715), (149, 32730),

Gene: SirDuracell_35 Start: 31377, Stop: 31793, Start Num: 60
Candidate Starts for SirDuracell_35:
(Start: 45 @31332 has 1 MA's), (Start: 60 @31377 has 332 MA's), (83, 31431), (89, 31446), (102, 31494), (133, 31608), (146, 31635), (149, 31650),

Gene: Sitar_44 Start: 40321, Stop: 40770, Start Num: 61
Candidate Starts for Sitar_44:
(30, 40225), (Start: 61 @40321 has 48 MA's), (75, 40363), (82, 40378), (87, 40390), (101, 40441), (128, 40543), (160, 40666), (169, 40702), (179, 40753),

Gene: Skadoosh_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Skadoosh_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Skipitt_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for Skipitt_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (140, 22761), (152, 22833),

Gene: Snenia_30 Start: 28375, Stop: 28794, Start Num: 54

Candidate Starts for Snenia_30:
(Start: 54 @28375 has 21 MA's), (Start: 63 @28399 has 6 MA's), (80, 28441), (121, 28570), (129, 28591), (149, 28645), (150, 28648), (170, 28750),

Gene: SoJulia_32 Start: 28270, Stop: 28692, Start Num: 52
Candidate Starts for SoJulia_32:
(Start: 52 @28270 has 32 MA's), (Start: 63 @28297 has 6 MA's), (82, 28342), (89, 28357), (91, 28363), (104, 28414), (121, 28468), (149, 28543), (150, 28546), (161, 28603), (170, 28648), (175, 28675),

Gene: Soap141_31 Start: 28042, Stop: 28464, Start Num: 52
Candidate Starts for Soap141_31:
(Start: 52 @28042 has 32 MA's), (Start: 63 @28069 has 6 MA's), (82, 28114), (89, 28129), (91, 28135), (104, 28186), (121, 28240), (149, 28315), (150, 28318), (161, 28375), (170, 28420), (175, 28447),

Gene: SophKB_36 Start: 32711, Stop: 33127, Start Num: 60
Candidate Starts for SophKB_36:
(Start: 45 @32666 has 1 MA's), (Start: 60 @32711 has 332 MA's), (83, 32765), (89, 32780), (95, 32798), (102, 32828), (133, 32942), (146, 32969), (149, 32984),

Gene: Sotrice96_36 Start: 32666, Stop: 33082, Start Num: 60
Candidate Starts for Sotrice96_36:
(Start: 45 @32621 has 1 MA's), (Start: 60 @32666 has 332 MA's), (83, 32720), (89, 32735), (95, 32753), (102, 32783), (133, 32897), (146, 32924), (149, 32939),

Gene: Sparky_30 Start: 27513, Stop: 28001, Start Num: 58
Candidate Starts for Sparky_30:
(21, 27366), (25, 27402), (26, 27405), (48, 27474), (Start: 58 @27513 has 6 MA's), (67, 27537), (76, 27564), (78, 27567), (79, 27570), (85, 27582), (91, 27600), (99, 27630), (102, 27642), (118, 27729), (134, 27777), (141, 27798), (144, 27810),

Gene: Sparxx_30 Start: 22516, Stop: 22944, Start Num: 60
Candidate Starts for Sparxx_30:
(Start: 60 @22516 has 332 MA's), (85, 22576), (92, 22597), (102, 22636), (118, 22699), (152, 22834),

Gene: Spino_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Spino_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Stank_39 Start: 33218, Stop: 33634, Start Num: 60
Candidate Starts for Stank_39:
(Start: 45 @33173 has 1 MA's), (Start: 60 @33218 has 332 MA's), (83, 33272), (89, 33287), (102, 33335), (133, 33449), (146, 33476), (149, 33491),

Gene: Stark_37 Start: 32470, Stop: 32886, Start Num: 60
Candidate Starts for Stark_37:
(Start: 45 @32425 has 1 MA's), (Start: 60 @32470 has 332 MA's), (83, 32524), (89, 32539), (95, 32557), (102, 32587), (133, 32701), (146, 32728), (149, 32743),

Gene: Stasia_31 Start: 22953, Stop: 23387, Start Num: 60
Candidate Starts for Stasia_31:
(49, 22911), (Start: 60 @22953 has 332 MA's), (85, 23013), (118, 23136), (146, 23220), (154, 23277), (176, 23376),

Gene: SteMason_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for SteMason_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Steamy_32 Start: 23901, Stop: 24398, Start Num: 60
Candidate Starts for Steamy_32:
(Start: 60 @23901 has 332 MA's), (75, 23946), (94, 23994), (101, 24024), (109, 24087), (127, 24156), (129, 24159),

Gene: StellaBean_36 Start: 32711, Stop: 33127, Start Num: 60
Candidate Starts for StellaBean_36:
(Start: 45 @32666 has 1 MA's), (Start: 60 @32711 has 332 MA's), (83, 32765), (89, 32780), (95, 32798), (102, 32828), (133, 32942), (146, 32969), (149, 32984),

Gene: Stichling_42 Start: 38404, Stop: 38850, Start Num: 61
Candidate Starts for Stichling_42:
(7, 38146), (12, 38197), (30, 38302), (36, 38317), (Start: 61 @38404 has 48 MA's), (75, 38446), (82, 38461), (87, 38473), (128, 38626), (169, 38785), (179, 38833),

Gene: Stink_31 Start: 22801, Stop: 23226, Start Num: 60
Candidate Starts for Stink_31:
(33, 22708), (36, 22717), (Start: 60 @22801 has 332 MA's), (70, 22825), (91, 22879), (101, 22918), (129, 23011), (136, 23035), (143, 23053), (159, 23137),

Gene: StolenFromERC_38 Start: 32702, Stop: 33118, Start Num: 60
Candidate Starts for StolenFromERC_38:
(Start: 45 @32657 has 1 MA's), (Start: 60 @32702 has 332 MA's), (83, 32756), (89, 32771), (95, 32789), (102, 32819), (133, 32933), (146, 32960), (149, 32975),

Gene: StormChicken_36 Start: 32886, Stop: 33302, Start Num: 60
Candidate Starts for StormChicken_36:
(Start: 45 @32841 has 1 MA's), (Start: 60 @32886 has 332 MA's), (83, 32940), (89, 32955), (95, 32973), (102, 33003), (133, 33117), (146, 33144), (149, 33159),

Gene: StorminNorm_44 Start: 38975, Stop: 39421, Start Num: 61
Candidate Starts for StorminNorm_44:
(5, 38687), (17, 38798), (30, 38873), (Start: 61 @38975 has 48 MA's), (75, 39017), (82, 39032), (87, 39044), (128, 39197), (169, 39356), (179, 39404),

Gene: Strobilo_32 Start: 26879, Stop: 27370, Start Num: 60
Candidate Starts for Strobilo_32:
(Start: 60 @26879 has 332 MA's), (84, 26936), (90, 26954), (105, 27011), (134, 27146), (139, 27176), (146, 27203), (150, 27227), (160, 27281), (163, 27290),

Gene: Stuck_29 Start: 26569, Stop: 27057, Start Num: 58
Candidate Starts for Stuck_29:
(25, 26458), (32, 26479), (Start: 58 @26569 has 6 MA's), (67, 26593), (76, 26620), (85, 26638), (99, 26686), (102, 26698), (134, 26833), (141, 26854), (144, 26866),

Gene: Stultus_43 Start: 39274, Stop: 39723, Start Num: 61
Candidate Starts for Stultus_43:
(30, 39175), (Start: 61 @39274 has 48 MA's), (75, 39316), (82, 39331), (87, 39343), (128, 39496), (160, 39619), (169, 39655), (179, 39706),

Gene: Sultana_30 Start: 22519, Stop: 22947, Start Num: 60
Candidate Starts for Sultana_30:
(Start: 60 @22519 has 332 MA's), (85, 22579), (92, 22600), (102, 22639), (118, 22702), (152, 22837),

Gene: SushiChef_26 Start: 22098, Stop: 22511, Start Num: 62
Candidate Starts for SushiChef_26:
(2, 21828), (4, 21852), (15, 21954), (42, 22077), (Start: 62 @22098 has 20 MA's), (90, 22173), (93, 22182), (104, 22227), (115, 22290), (157, 22437),

Gene: TBrady12_38 Start: 32702, Stop: 33118, Start Num: 60
Candidate Starts for TBrady12_38:
(Start: 45 @32657 has 1 MA's), (Start: 60 @32702 has 332 MA's), (83, 32756), (89, 32771), (95, 32789), (102, 32819), (133, 32933), (146, 32960), (149, 32975),

Gene: TM4_34 Start: 27085, Stop: 27576, Start Num: 60
Candidate Starts for TM4_34:
(9, 26857), (Start: 60 @27085 has 332 MA's), (84, 27142), (90, 27160), (105, 27217), (134, 27352), (146, 27409), (150, 27433), (160, 27487), (176, 27565),

Gene: Tangent_45 Start: 39348, Stop: 39797, Start Num: 61
Candidate Starts for Tangent_45:
(27, 39240), (30, 39249), (Start: 61 @39348 has 48 MA's), (75, 39390), (82, 39405), (87, 39417), (128, 39570), (160, 39693), (169, 39729), (179, 39780),

Gene: Tangerine_44 Start: 38756, Stop: 39202, Start Num: 61
Candidate Starts for Tangerine_44:
(7, 38498), (12, 38549), (30, 38654), (36, 38669), (Start: 61 @38756 has 48 MA's), (75, 38798), (82, 38813), (87, 38825), (128, 38978), (169, 39137), (179, 39185),

Gene: Taquarus_30 Start: 22521, Stop: 22949, Start Num: 60
Candidate Starts for Taquarus_30:
(Start: 60 @22521 has 332 MA's), (85, 22581), (92, 22602), (102, 22641), (118, 22704), (152, 22839),

Gene: Tarkin_38 Start: 33701, Stop: 34117, Start Num: 60
Candidate Starts for Tarkin_38:
(Start: 45 @33656 has 1 MA's), (Start: 60 @33701 has 332 MA's), (83, 33755), (89, 33770), (95, 33788), (102, 33818), (133, 33932), (146, 33959), (149, 33974),

Gene: TeamEdward_36 Start: 32883, Stop: 33299, Start Num: 60
Candidate Starts for TeamEdward_36:
(Start: 45 @32838 has 1 MA's), (Start: 60 @32883 has 332 MA's), (83, 32937), (89, 32952), (95, 32970), (102, 33000), (133, 33114), (146, 33141), (149, 33156),

Gene: TeardropMSU_35 Start: 32612, Stop: 33028, Start Num: 60
Candidate Starts for TeardropMSU_35:
(Start: 45 @32567 has 1 MA's), (Start: 60 @32612 has 332 MA's), (83, 32666), (89, 32681), (95, 32699), (102, 32729), (133, 32843), (146, 32870), (149, 32885),

Gene: Teaspoon_37 Start: 32665, Stop: 33081, Start Num: 60
Candidate Starts for Teaspoon_37:
(Start: 45 @32620 has 1 MA's), (Start: 60 @32665 has 332 MA's), (83, 32719), (89, 32734), (95, 32752), (102, 32782), (133, 32896), (146, 32923), (149, 32938),

Gene: Terminus_36 Start: 32799, Stop: 33215, Start Num: 60
Candidate Starts for Terminus_36:
(Start: 45 @32754 has 1 MA's), (Start: 60 @32799 has 332 MA's), (83, 32853), (89, 32868), (95, 32886), (102, 32916), (133, 33030), (146, 33057), (149, 33072),

Gene: Thanksgivukkah_30 Start: 22519, Stop: 22947, Start Num: 60
Candidate Starts for Thanksgivukkah_30:
(Start: 60 @22519 has 332 MA's), (75, 22558), (85, 22579), (92, 22600), (101, 22636), (102, 22639), (152, 22837),

Gene: ThankyouJordi_23 Start: 21874, Stop: 22287, Start Num: 62
Candidate Starts for ThankyouJordi_23:
(4, 21628), (8, 21676), (10, 21703), (27, 21805), (42, 21853), (Start: 62 @21874 has 20 MA's), (90, 21949), (93, 21958), (104, 22003), (157, 22213),

Gene: Thimble_36 Start: 31662, Stop: 32078, Start Num: 60
Candidate Starts for Thimble_36:
(Start: 45 @31617 has 1 MA's), (Start: 60 @31662 has 332 MA's), (83, 31716), (89, 31731), (95, 31749), (102, 31779), (133, 31893), (146, 31920), (149, 31935),

Gene: Thing3_42 Start: 38577, Stop: 39026, Start Num: 61
Candidate Starts for Thing3_42:
(30, 38478), (Start: 61 @38577 has 48 MA's), (75, 38619), (82, 38634), (87, 38646), (128, 38799), (160, 38922), (169, 38958), (179, 39009),

Gene: Thresher_37 Start: 33466, Stop: 33882, Start Num: 60
Candidate Starts for Thresher_37:
(Start: 45 @33421 has 1 MA's), (Start: 60 @33466 has 332 MA's), (83, 33520), (89, 33535), (102, 33583), (133, 33697), (146, 33724), (149, 33739),

Gene: Thumb_37 Start: 33336, Stop: 33851, Start Num: 46
Candidate Starts for Thumb_37:
(Start: 46 @33336 has 11 MA's), (68, 33408), (69, 33411), (72, 33423), (108, 33552), (150, 33696), (165, 33768), (168, 33786), (170, 33798),

Gene: TimTam_24 Start: 21899, Stop: 22312, Start Num: 62
Candidate Starts for TimTam_24:
(2, 21629), (15, 21755), (42, 21878), (Start: 62 @21899 has 20 MA's), (90, 21974), (93, 21983), (104, 22028), (115, 22091), (157, 22238),

Gene: Timshel_31 Start: 25553, Stop: 25981, Start Num: 60
Candidate Starts for Timshel_31:
(Start: 60 @25553 has 332 MA's), (84, 25610), (88, 25622), (95, 25643), (129, 25763), (135, 25784), (148, 25823), (150, 25841), (154, 25874), (164, 25907),

Gene: TinaFeyge_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for TinaFeyge_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: Tinybot_29 Start: 22495, Stop: 22923, Start Num: 60
Candidate Starts for Tinybot_29:

(Start: 60 @22495 has 332 MA's), (75, 22534), (85, 22555), (92, 22576), (101, 22612), (102, 22615), (152, 22813),

Gene: TiroTheta9_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for TiroTheta9_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: Tomaszewski_35 Start: 32309, Stop: 32725, Start Num: 60
Candidate Starts for Tomaszewski_35:
(Start: 45 @32264 has 1 MA's), (Start: 60 @32309 has 332 MA's), (83, 32363), (89, 32378), (95, 32396), (102, 32426), (133, 32540), (146, 32567), (149, 32582),

Gene: Topanga_31 Start: 22953, Stop: 23384, Start Num: 60
Candidate Starts for Topanga_31:
(Start: 60 @22953 has 332 MA's), (75, 22992), (85, 23013), (87, 23019), (118, 23136), (173, 23358),

Gene: Toto_36 Start: 32712, Stop: 33128, Start Num: 60
Candidate Starts for Toto_36:
(Start: 45 @32667 has 1 MA's), (Start: 60 @32712 has 332 MA's), (83, 32766), (89, 32781), (95, 32799), (102, 32829), (133, 32943), (146, 32970), (149, 32985),

Gene: Tourach_31 Start: 28000, Stop: 28422, Start Num: 52
Candidate Starts for Tourach_31:
(Start: 52 @28000 has 32 MA's), (Start: 63 @28027 has 6 MA's), (75, 28057), (82, 28072), (89, 28087), (104, 28144), (121, 28198), (138, 28240), (149, 28273), (150, 28276), (161, 28333), (170, 28378), (175, 28405),

Gene: Traaww1_34 Start: 32350, Stop: 32766, Start Num: 60
Candidate Starts for Traaww1_34:
(Start: 45 @32305 has 1 MA's), (Start: 60 @32350 has 332 MA's), (83, 32404), (89, 32419), (95, 32437), (102, 32467), (133, 32581), (146, 32608), (149, 32623),

Gene: TriFive_30 Start: 28374, Stop: 28793, Start Num: 54
Candidate Starts for TriFive_30:
(Start: 54 @28374 has 21 MA's), (Start: 63 @28398 has 6 MA's), (80, 28440), (121, 28569), (129, 28590), (149, 28644), (150, 28647), (170, 28749),

Gene: Trike_29 Start: 20971, Stop: 21399, Start Num: 60
Candidate Starts for Trike_29:
(Start: 60 @20971 has 332 MA's), (75, 21010), (87, 21037), (95, 21061), (118, 21154), (174, 21379),

Gene: Tristan_32 Start: 24458, Stop: 24892, Start Num: 60
Candidate Starts for Tristan_32:
(Start: 60 @24458 has 332 MA's), (Start: 61 @24461 has 48 MA's), (85, 24521), (116, 24641), (136, 24698), (163, 24809), (173, 24866), (176, 24881),

Gene: TroyPia_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for TroyPia_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Tuco_37 Start: 33220, Stop: 33636, Start Num: 60
Candidate Starts for Tuco_37:

(Start: 45 @33175 has 1 MA's), (Start: 60 @33220 has 332 MA's), (83, 33274), (89, 33289), (102, 33337), (133, 33451), (146, 33478), (149, 33493),

Gene: Twister_31 Start: 22862, Stop: 23293, Start Num: 60
Candidate Starts for Twister_31:
(37, 22784), (44, 22805), (Start: 60 @22862 has 332 MA's), (75, 22901), (116, 23042), (118, 23045), (143, 23117), (154, 23186), (163, 23210),

Gene: Tycho_44 Start: 38843, Stop: 39289, Start Num: 61
Candidate Starts for Tycho_44:
(5, 38555), (17, 38666), (30, 38741), (36, 38756), (Start: 61 @38843 has 48 MA's), (75, 38885), (82, 38900), (87, 38912), (128, 39065), (169, 39224), (179, 39272),

Gene: TygerBlood_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for TygerBlood_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Tyson_29 Start: 27280, Stop: 27699, Start Num: 53
Candidate Starts for Tyson_29:
(Start: 53 @27280 has 19 MA's), (Start: 60 @27295 has 332 MA's), (82, 27349), (89, 27364), (104, 27421), (120, 27469), (121, 27475), (129, 27496), (149, 27550), (170, 27655), (175, 27682),

Gene: UPIE_29 Start: 27278, Stop: 27697, Start Num: 53
Candidate Starts for UPIE_29:
(Start: 53 @27278 has 19 MA's), (Start: 60 @27293 has 332 MA's), (82, 27347), (89, 27362), (104, 27419), (120, 27467), (121, 27473), (129, 27494), (149, 27548), (170, 27653), (175, 27680),

Gene: Ukulele_36 Start: 32470, Stop: 32886, Start Num: 60
Candidate Starts for Ukulele_36:
(Start: 45 @32425 has 1 MA's), (Start: 60 @32470 has 332 MA's), (83, 32524), (89, 32539), (102, 32587), (133, 32701), (146, 32728), (149, 32743),

Gene: Ulysses_29 Start: 22236, Stop: 22664, Start Num: 60
Candidate Starts for Ulysses_29:
(Start: 60 @22236 has 332 MA's), (75, 22275), (85, 22296), (92, 22317), (101, 22353), (102, 22356), (152, 22554),

Gene: Underpass_31 Start: 28011, Stop: 28433, Start Num: 52
Candidate Starts for Underpass_31:
(Start: 52 @28011 has 32 MA's), (Start: 63 @28038 has 6 MA's), (82, 28083), (89, 28098), (91, 28104), (104, 28155), (121, 28209), (149, 28284), (150, 28287), (161, 28344), (170, 28389), (175, 28416),

Gene: VanLee_31 Start: 26056, Stop: 26493, Start Num: 62
Candidate Starts for VanLee_31:
(16, 25918), (40, 26029), (Start: 62 @26056 has 20 MA's), (75, 26095), (82, 26110), (85, 26116), (93, 26140), (111, 26239), (125, 26272), (177, 26482),

Gene: Vetrix_31 Start: 28015, Stop: 28437, Start Num: 52
Candidate Starts for Vetrix_31:
(Start: 52 @28015 has 32 MA's), (Start: 63 @28042 has 6 MA's), (82, 28087), (89, 28102), (91, 28108), (104, 28159), (121, 28213), (149, 28288), (150, 28291), (161, 28348), (170, 28393), (175, 28420),

Gene: Vivi2_47 Start: 40374, Stop: 40823, Start Num: 61

Candidate Starts for Vivi2_47:
(30, 40275), (Start: 61 @40374 has 48 MA's), (75, 40416), (82, 40431), (87, 40443), (128, 40596), (160, 40719), (169, 40755), (179, 40806),

Gene: Volt_66 Start: 36531, Stop: 36920, Start Num: 63
Candidate Starts for Volt_66:
(Start: 63 @36531 has 6 MA's), (75, 36567), (100, 36639), (125, 36744), (139, 36780), (150, 36822), (154, 36855),

Gene: Vordorf_27 Start: 22487, Stop: 22912, Start Num: 62
Candidate Starts for Vordorf_27:
(Start: 62 @22487 has 20 MA's), (75, 22526), (82, 22541), (93, 22571), (125, 22703), (145, 22763),

Gene: WalterMcMickey_31 Start: 22862, Stop: 23293, Start Num: 60
Candidate Starts for WalterMcMickey_31:
(37, 22784), (44, 22805), (Start: 60 @22862 has 332 MA's), (75, 22901), (116, 23042), (118, 23045), (143, 23117), (154, 23186), (163, 23210),

Gene: Wamburgrxpress_29 Start: 27293, Stop: 27712, Start Num: 53
Candidate Starts for Wamburgrxpress_29:
(Start: 53 @27293 has 19 MA's), (Start: 60 @27308 has 332 MA's), (82, 27362), (89, 27377), (104, 27434), (120, 27482), (121, 27488), (129, 27509), (149, 27563), (170, 27668), (175, 27695),

Gene: Wander_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Wander_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: WelcomeAyanna_23 Start: 21874, Stop: 22287, Start Num: 62
Candidate Starts for WelcomeAyanna_23:
(4, 21628), (8, 21676), (10, 21703), (27, 21805), (42, 21853), (Start: 62 @21874 has 20 MA's), (90, 21949), (93, 21958), (104, 22003), (157, 22213),

Gene: Whirlwind_31 Start: 28115, Stop: 28534, Start Num: 54
Candidate Starts for Whirlwind_31:
(Start: 54 @28115 has 21 MA's), (Start: 63 @28139 has 6 MA's), (75, 28169), (80, 28181), (121, 28310), (125, 28325), (149, 28385), (150, 28388), (158, 28436), (170, 28490),

Gene: Wiggin_39 Start: 33216, Stop: 33632, Start Num: 60
Candidate Starts for Wiggin_39:
(Start: 45 @33171 has 1 MA's), (Start: 60 @33216 has 332 MA's), (83, 33270), (89, 33285), (95, 33303), (102, 33333), (133, 33447), (146, 33474), (149, 33489),

Gene: Wigglewiggle_31 Start: 28041, Stop: 28463, Start Num: 52
Candidate Starts for Wigglewiggle_31:
(Start: 52 @28041 has 32 MA's), (Start: 63 @28068 has 6 MA's), (82, 28113), (89, 28128), (91, 28134), (104, 28185), (121, 28239), (149, 28314), (150, 28317), (161, 28374), (170, 28419), (175, 28446),

Gene: Wilbur_30 Start: 22518, Stop: 22946, Start Num: 60
Candidate Starts for Wilbur_30:
(Start: 60 @22518 has 332 MA's), (85, 22578), (92, 22599), (102, 22638), (118, 22701), (152, 22836),

Gene: Wilder_31 Start: 28014, Stop: 28436, Start Num: 52
Candidate Starts for Wilder_31:

(Start: 52 @28014 has 32 MA's), (Start: 63 @28041 has 6 MA's), (82, 28086), (89, 28101), (91, 28107), (104, 28158), (121, 28212), (149, 28287), (150, 28290), (161, 28347), (170, 28392), (175, 28419),

Gene: Wile_30 Start: 22543, Stop: 22974, Start Num: 60
Candidate Starts for Wile_30:
(Start: 60 @22543 has 332 MA's), (75, 22582), (85, 22603), (95, 22633), (118, 22726), (148, 22816), (155, 22870), (173, 22948),

Gene: Willez_35 Start: 32216, Stop: 32632, Start Num: 60
Candidate Starts for Willez_35:
(Start: 45 @32171 has 1 MA's), (Start: 60 @32216 has 332 MA's), (83, 32270), (89, 32285), (95, 32303), (102, 32333), (133, 32447), (146, 32474), (149, 32489),

Gene: Winky_31 Start: 28009, Stop: 28431, Start Num: 52
Candidate Starts for Winky_31:
(Start: 52 @28009 has 32 MA's), (Start: 63 @28036 has 6 MA's), (82, 28081), (89, 28096), (91, 28102), (104, 28153), (121, 28207), (149, 28282), (150, 28285), (161, 28342), (170, 28387), (175, 28414),

Gene: Wizard007_30 Start: 22520, Stop: 22948, Start Num: 60
Candidate Starts for Wizard007_30:
(Start: 60 @22520 has 332 MA's), (85, 22580), (92, 22601), (102, 22640), (118, 22703), (152, 22838),

Gene: Wyatt2_29 Start: 27280, Stop: 27699, Start Num: 53
Candidate Starts for Wyatt2_29:
(Start: 53 @27280 has 19 MA's), (Start: 60 @27295 has 332 MA's), (82, 27349), (89, 27364), (104, 27421), (120, 27469), (121, 27475), (129, 27496), (149, 27550), (170, 27655), (175, 27682),

Gene: Xandras_38 Start: 32702, Stop: 33118, Start Num: 60
Candidate Starts for Xandras_38:
(Start: 45 @32657 has 1 MA's), (Start: 60 @32702 has 332 MA's), (83, 32756), (89, 32771), (95, 32789), (102, 32819), (133, 32933), (146, 32960), (149, 32975),

Gene: Xena_30 Start: 22530, Stop: 22961, Start Num: 60
Candidate Starts for Xena_30:
(Start: 60 @22530 has 332 MA's), (75, 22569), (85, 22590), (95, 22620), (118, 22713), (148, 22803), (155, 22857), (173, 22935),

Gene: YassJohnny_37 Start: 33227, Stop: 33643, Start Num: 60
Candidate Starts for YassJohnny_37:
(Start: 45 @33182 has 1 MA's), (Start: 60 @33227 has 332 MA's), (83, 33281), (89, 33296), (95, 33314), (102, 33344), (133, 33458), (146, 33485), (149, 33500),

Gene: YoSam321_30 Start: 22515, Stop: 22943, Start Num: 60
Candidate Starts for YoSam321_30:
(Start: 60 @22515 has 332 MA's), (85, 22575), (92, 22596), (102, 22635), (118, 22698), (152, 22833),

Gene: YorkOnyx_45 Start: 39100, Stop: 39546, Start Num: 61
Candidate Starts for YorkOnyx_45:
(12, 38893), (30, 38998), (36, 39013), (Start: 61 @39100 has 48 MA's), (75, 39142), (82, 39157), (87, 39169), (128, 39322), (169, 39481), (179, 39529),

Gene: Youngblood_36 Start: 32872, Stop: 33288, Start Num: 60
Candidate Starts for Youngblood_36:

(Start: 45 @32827 has 1 MA's), (Start: 60 @32872 has 332 MA's), (83, 32926), (89, 32941), (102, 32989), (133, 33103), (146, 33130), (149, 33145),

Gene: Zakai_31 Start: 28265, Stop: 28687, Start Num: 52
Candidate Starts for Zakai_31:
(Start: 52 @28265 has 32 MA's), (Start: 63 @28292 has 6 MA's), (75, 28322), (82, 28337), (89, 28352), (91, 28358), (104, 28409), (121, 28463), (149, 28538), (150, 28541), (161, 28598), (170, 28643), (175, 28670),

Gene: Zaria_29 Start: 27294, Stop: 27713, Start Num: 53
Candidate Starts for Zaria_29:
(Start: 53 @27294 has 19 MA's), (Start: 60 @27309 has 332 MA's), (82, 27363), (89, 27378), (104, 27435), (120, 27483), (121, 27489), (129, 27510), (149, 27564), (170, 27669), (175, 27696),

Gene: ZhongYanYuan_30 Start: 27830, Stop: 28252, Start Num: 52
Candidate Starts for ZhongYanYuan_30:
(Start: 52 @27830 has 32 MA's), (Start: 63 @27857 has 6 MA's), (82, 27902), (89, 27917), (91, 27923), (104, 27974), (121, 28028), (149, 28103), (150, 28106), (161, 28163), (170, 28208), (175, 28235),

Gene: Ziko_66 Start: 36353, Stop: 36742, Start Num: 63
Candidate Starts for Ziko_66:
(Start: 63 @36353 has 6 MA's), (75, 36389), (100, 36461), (125, 36566), (139, 36602), (150, 36644), (154, 36677),

Gene: Zirinka_24 Start: 21911, Stop: 22324, Start Num: 62
Candidate Starts for Zirinka_24:
(2, 21641), (21, 21800), (42, 21890), (Start: 62 @21911 has 20 MA's), (90, 21986), (93, 21995), (104, 22040), (115, 22103), (157, 22250),

Gene: ZoeJ_32 Start: 26884, Stop: 27375, Start Num: 60
Candidate Starts for ZoeJ_32:
(Start: 60 @26884 has 332 MA's), (84, 26941), (90, 26959), (105, 27016), (134, 27151), (146, 27208), (150, 27232), (160, 27286), (176, 27364),

Gene: xkcd_37 Start: 32881, Stop: 33297, Start Num: 60
Candidate Starts for xkcd_37:
(Start: 45 @32836 has 1 MA's), (Start: 60 @32881 has 332 MA's), (83, 32935), (89, 32950), (95, 32968), (102, 32998), (133, 33112), (146, 33139), (149, 33154),